

**Списък на цитатите по публикациите  
на чл.-кор. проф. дмн Красимир Димитров Данов  
Общ брой цитати без автоцитати на всички автори към 23.05.2024:  
по приложения списък 6836 (h-index 49);  
Scopus 5407 (h-index 43);  
Web of Science 5237 (h-index 46);  
Google Scholar 9006 (h-index 56; i10-index 147).**

- 211 **T.N. Stancheva, M.T. Georgiev, G.M. Radulova, K.D. Danov, K.G. Marinova, Rheology of saturated micellar networks: Wormlike micellar solutions vs. bicontinuous micellar phases, Colloids and Surfaces A: Physicochemical and Engineering Aspects 625 (2022) 129927. (брой: 5)**
  1. Flores S.L., J. Mu, C.P. Cabry, J. Peterson, S.C. de Hert, L. Morrison, J.P. Stott, J.L. Cook, A.J. Masters, C. Hardacre, C. Avendano, Microstructural and thermodynamic characterization of wormlike micelles formed by polydisperse ionic surfactant solutions, *The Journal of Chemical Physics* 159 (2023) 054902.
  2. Zhang D., M. Zhang, C. Chen, X. Su, Responsive wormlike micelles from oleoyl sarcosine triggered by pH and temperature, *Journal of Molecular Liquids* 385 (2023) 122342.
  3. Zou W., G. Tan, M. Weaver, P. Koenig, R.G. Larson, Mesoscopic modeling of the effect of branching on the viscoelasticity of entangled wormlike micellar solutions, *Physical Review Research* 5 (2023) 043024.
  4. Lin Y.-T., W. Zhou, S. Liu, B. Bhat, K.-Y. Kuan, S. Pahari, J. Kwan, M.E.S. Akbulut, Influence of chain length of amido betaines and amine degree of diamines on the binary supramolecular assembly and viscosity dynamics of amido betaine/diamine coacervates, *JCIS Open* 14 (2024) 100112.
  5. Wu X., G. Zhang, P. Wang, Phase behavior and rheological properties of AES/CAPB/H<sub>2</sub>O ternary system, *Applied Sciences* 14 (2024) 3605.
  
- 209 **K.D. Danov, G.S. Lyutskanova-Zhekova, S.K. Smoukov, Motion of long bubbles in gravity- and pressure-driven flow through cylindrical capillaries up to moderate capillary numbers, Physics of Fluids 33 (2021) 113606. (брой: 4)**
  1. Monet B., C. Madec, V. Vidal, S. Joubaud, F. John Sounder Jerome, Bubble rise in a Hele-Shaw cell: bridging the gap between viscous and inertial regimes, *Journal of Fluid Mechanics* 942 (2022) R3.
  2. Zhu Z.-C., H.-R. Liu, H. Ding, Buoyancy-driven bubbles in a constricted vertical capillary, *Physics of Fluids* 34 (2022) 032102.
  3. Jose J., A. Kundu, D. Pal, S. Dutta, A. Rawal, E. Pramanik, G. Kumar, Rising of asymmetric bubble through milli-tubes: Experimental, theoretical and numerical analysis, *Physics of Fluids* 35 (2023) 123331.
  4. Jing Z., C. Feng, J. Ryan-Purcell, S. Hutzler, Equilibrium shape of a bubble in a liquid-filled horizontal capillary, *International Journal of Multiphase Flow* 172 (2024) 104729.
  
- 208 **K.D. Danov, T.D. Gurkov, R.D. Stanimirova, R.I. Uzunova, Kinetics of transfer of volatile amphiphiles (fragrances) from vapors to aqueous drops and vice versa: Interplay of diffusion and barrier mechanisms, Colloids and Surfaces A 625 (2021) 126931. (брой: 5)**
  1. Kudla R., J.S. Gudmann, L.A. Tsarkova, Tensiometry as a simple analytical method for quantification of solubility and release of aroma molecules in aqueous media, *Molecules* 26 (2021) 7655.
  2. Liang S., Y. Fu, J. Yin, Y. Xu, Compositional analysis and regulation of foam formed during black tea juice fermentation, *Food Science* 43 (2022) 238–246.
  3. Soboleva O.A., E.A. Gryzunova, L.A. Tsarkova, Tensiometry-based sensing of aggregation and of evaporation behavior of a volatile amphiphile in mixed solutions with ionic and nonionic surfactants, *Colloids and Surfaces A* 676 (2023) 132119.
  4. Sharma T., S. Erimban, R. Azad, Y. Nam, R. Raj, S. Daschakraborty, Investigating the Vapor-Phase Adsorption of Aroma Molecules on the Water-Vapor Interface using Molecular Dynamics Simulations, *Lamguir* 39 (2023) 17889–17902.
  5. Dallay C., C. Malhiac, B. Duchemin, G. Savary, C. Picard, Effect of linalool on lamellar-structured emulsions: From molecular organization to organoleptic properties, *Food Hydrocolloids* 149 (2024) 109575.
  
- 207 **K.D. Danov, R.D. Stanimirova, P.A. Kralchevsky, T.G. Slavova, V.I. Yavrukova, Y.W. Ung, E. Tan, H. Xu, J.T. Petkov, Solubility of ionic surfactants below their Krafft point in mixed micellar solutions: Phase diagrams for methyl ester sulfonates and nonionic cosurfactants, Journal of Colloid and Interface Science 601 (2021) 474–485. (брой: 4)**
  1. Blahnik J., E. Muller, L. Braun, P. Denk, W. Kunz, Nanoscopic microheterogeneities or pseudo-phase separations in non-conventional liquids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101355.

2. Liang X., Y. Li, J. Bai, J. Dong, W. Li, Y. Mo, D. Jiang, W. Zhang, Feasibility evaluation of novel anionic-nonionic gemini surfactants for surfactant-enhanced aquifer remediation, *Journal of Cleaner Production* 393 (2023) 136338.
  3. Ulman N., K. Hackl, D. Tourand, W. Kunz, Investigation of salting-in/-out, hydrophobic and surface active behavior of plant-based hotmone and phenolic acid salts, *Journal of Colloid and Interface Science* 641 (2023) 631–642.
  4. Man Z., W. Wu, Study on the Synthesis, Surface Activity, and Self-Assembly Behavior of Anionic Non-Ionic Gemini Surfactants, *Molecules* 29 (2024) 1725.
- 205 K.D. Danov, P.A. Kralchevsky, R.D. Stanimirova, S.D. Stoyanov, J.L. Cook, I.P. Stott, Analytical modelling of micelle growth. 4. Molecular thermodynamics of wormlike micelles from ionic surfactants: Theory vs. experiment, Journal of Colloid and Interface Science 584 (2021) 561–581. (брой: 15)**
1. Jamadagni S.N., X. Ko, J.B. Thomas, D.M. Elke, Salt- and pH- dependent viscosity of SDS/LAPB Solutions: Experiments and a semiempirical thermodynamic model, *Langmuir* 37 (2021) 8714–8725.
  2. Li L., Z. Yan, X. He, X. Zhang, S. Wang, S. Guo, N. Tang, X. Wang, A facile method to control the morphologies of barium sulfate particles by using carboxylic carbon quantum dots as a regulator, *Colloids and Surfaces A* 631 (2021) 127668.
  3. Pahari S., B. Bhadriraju, M. Akbulut, J.S.-I. Kwon, A slip-spring framework to study relaxation dynamics of entangled wormlike micelles with kinetic Monte Carlo algorithm, *Journal of Colloid and Interface Science* 600 (2021) 550–560.
  4. Pahari S., J. Moon, M. Akbulut, S. Hwang, J.S.-I. Kwon, Model predictive control for wormlike micelles (WLMs): Application to a system of CTAB and NaCl, *Chemical Engineering Research and Design* 174 (2021) 30–41.
  5. Zaldivar G., M. Conda-Sheridan, M. Tagliazucchi, Scission energy of surfactant wormlike micelles loaded with nonpolar additives, *Journal of Colloid and Interface Science* 604 (2021) 757–766.
  6. Zhang W., D. Liu, Y. Wu, H. Lu, Preparation of worm-like micelles with dual response CO<sub>2</sub>/N<sub>2</sub> and ultraviolet light, *Chemical Industry and Engineering Progress* 40 (2021) 6785–6791.
  7. Danino D., T. Zemb, On the shape and connections of micelles: electron microscopy imaging inspiring thermodynamic modelling, *Current Opinion in Colloid and Interface Science* 61 (2022) 101607.
  8. Mayer G., R. Schweins, T. Youngs, J.-F. Dufreche, I. Billard, M. Plazanet, How temperature rise can induce phase separation in aqueous biphasic solutions, *Jornal of Physical Chemistry Letters* 13 (2022) 2731–2736.
  9. Pahari S., J. Moon, M. Akbulut, S. Hwang, J.S. Kwon, Development of a soft sensor to estimate the rheological properties of self-assembled systems: Application to wormlike micelles (WLMs), *IFAC-PapersOnLine* 55 (2022) 940–945.
  10. Qui J., W. Ye, X. Xu, B. Guo, R. Wang, C. Hu, J. Zhuang, H. Dong, G. Hu, Y. Liu, Controllable synthesis of carbon dots@CaCO<sub>3</sub> composites: Tunable morphology, UV adsorption properties, and application as an ultraviolet adsorber, *Crystal Growth and Design* 22 (2022) 4357–4365.
  11. Stemplinger S., M. Duvail, J.-F. Dufreche, Molecular dynamics simulations of Eu(NO<sub>3</sub>)<sub>3</sub> salt with DMDOHEMA in n-alkanes: Unravelling curvature properties in liquid-liquid extraction, *Journal of Molecular Liquids* 348 (2022) 118035.
  12. Bhat B., S. Pahari, J.S.-I. Kwon, M.E.S. Akbulut, Stimuli-responsive viscosity modifiers, *Advances in Colloid and Interface Science* 321 (2023) 103025.
  13. Shang Y., J. Wang, J. Douth, P. Li, Q. Yin, X. Cao, Y. Feng, H. Yin, Saturated C<sub>22</sub>-tailed cationic surfactant in concentrated brine: Structural evolution of wormlike micelles and rheological properties, *Journal of Molecular Liquids* 378 (2023) 121561.
  14. Wang X., S. Wang, F. Wang, G. Zhang, X. Wang, T. Zhou, New anionic Gemini surfactant viscoelastic fluid for clean fracturing of natural gas hydrate, *Journal of Molecular Liquids* 390 (2023) 122913.
  15. Zaldivar G., M. Cosda-Sheridan, M. Tagliazucchi, Theoretical modeling of self-assembled nanostructures of amphiphiles in solution, in. *Supramolecular Nanotechnology* 1–3 (2023) 1161–1196.
- 204 T.G. Slavova, G.M. Radulova, P.A. Kralchevsky, K.D. Danov, Encapsulation of fragrances and oils by core-shell structures from silica nanoparticles, surfactants and polymers: Effect of particle size, Colloids and Surfaces A 606 (2020) 125558. (брой: 9)**
1. Adu-Gyamfi N., D.K. Sarker, Interfacial effects and the nano-scale disruption in adsorbed-layer of acrylate polymer-Tween 80 fabricated steroid-bearing emulsions: A rheological study of supramolecular materials, *Nanomaterials* 11 (2021) Art.No. 1612.
  2. Zhang S., J. Wang, X. Yang, B. Zhang, T. Ren, Impact of EO chain length of dodecanol ethoxylates (C<sub>12</sub>E<sub>n</sub>) on the rheological properties and physical stability of pesticide suspension concentrate, *Colloids Surfaces A* (2021) 127163.

3. Fujii H., I. Terabayashi, K. Kobayashi, M. Watanabe, Modeling photoacoustic pressure generation in colloidal suspensions at different volume fractions based on a multi-scale approach, *Photoacoustics* (2022) 100368.
  4. Marquez R., J. Zwilling, F. Zambrano, L. Tolosa, M.E. Marquez, R. Venditti, H. Jameel, R. Gonzalez, Nanoparticles and essential oils with antiviral activity on packaging and surfaces: An overview of their selection and application, *J. Surfactants Deterg.* (2022) 1–35.
  5. Berg C., L. Fu, Y. Liu, H. Engqvist, W. Xia, Bulk nanobubbles as soft templates in the fabrication of inorganic core-shell particles, *Ceramics International* 49 (2023) 16501–16513.
  6. Russel S., N. Bruns, Encapsulation of Fragrances in Micro- and Nano-Capsules, Polymeric Micelles, and Polymersomes, *Macromolecular Rapid Communications* 44 (2023) 2300120.
  7. Shichkin V.P., O.V. Kurchenko, E.N. Okhotnikova, V.V. Chopyak, D.V. Delfino, Enterosorbents in complex therapy of food allergies: a focus on digestive disorders and systemic toxicity in children, *Front. Immunol.* 14 (2023) 1210481.
  8. Sprockel A.J., M.A. Khan, de Ruiter M., M.T. Alting, K.A. Macmillan, M.F. Haase, Fabrication of bijels with sub-micron domains via a single-channel flow device, *Colloids and Surfaces A* 666 (2023) 131306.
  9. Barreto A., Uso de nanorrecubrimientos En textiles para indumentaria deportiva, *Revista Innmodalab* 7 (2024) 18.
- 203 M.T. Georgiev, L.A. Aleksova, P.A. Kralchevsky, K.D. Danov, Phase separation of saturated micellar network and its potential applications for nanoemulsification, *Colloids and Surfaces A* 607 (2020) 125487. (брой: 5)**
1. Blahnik J., E. Muller, L. Braun, P. Denk, W. Kunz, Nanoscopic microheterogeneities or pseudo-phase separations in non-conventional liquids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101355.
  2. Cholakova D., Z. Vinarov, Tcholakova S., Denkov N.D., Self-emulsification in chemical and pharmaceutical technologies, *Current Opinion in Colloid and Interface Science* 59 (2022) 101576.
  3. Creato E.J., F.B. Okasaki, M.B. Cardoso, E. Sabatini, Wormlike micelles of CTAB with phenols and with the corresponding phenolate derivatives - When hydrophobicity and charge drive the coacervation, *Journal of Colloid and Interface Science* 627 (2022) 355–366.
  4. Meena V., R. Mathur, A. Gull, N. Jain, D. Kumar, R. Kumar, S. Madan, Development and assessment of mitoxantrone and 4-methyl umbelliferone nanoemulsions for chemotherapeutic potential on MCF-7 cell line, *Journal of Research in Pharmacy* 26 (2022) 469–482.
  5. Kwiatkowski A.L., P.V. Kalinin, O.E. Philippova, Effect of Salt Content on Solubilization of Hydrophobic Polymer by Wormlike Micelles of Ionic Surfactant, *Eurasian Journal of Chemistry* (2024) .
- 202 K.D. Danov, P.A. Kralchevsky, S.D. Stoyanov, J.L. Cook, I.P. Stott, Analytical modelling of micelle growth. 3. Electrostatic free energy of ionic wormlike micelles – Effects of activity coefficients and spatially confined electric double layers, *Journal of Colloid and Interface Science* 581 (2021) 262–275. (брой: 13)**
1. Chu R., Y. Znag, T. Xing, G. Chen, The stability of disperse red/ reactive-red dye inks, *RSC Advances* 10 (2020) 42633–42643.
  2. Chernysheva M.G., A.V. Shnitko, H.S. Skrabkova, G.A. Badun, Peculiarities of alkylamidopropyltrimethylbenzylammonium (Miramistin) in the relationship to lysozyme in comparison with quaternary ammonium surfactants: coadsorption at the interfaces, enzymatic activity and molecular docking, *Colloids Surfaces A* (2021) 127503.
  3. Jamadagni S.N., X. Ko, J.B. Thomas, D.M. Elke, Salt- and pH- dependent viscosity of SDS/LAPB Solutions: Experiments and a semiempirical thermodynamic model, *Langmuir* 37 (2021) 8714–8725.
  4. Pahari S., J. Moon, M. Akbulut, S. Hwang, J.S.-I. Kwon, Model predictive control for wormlike micelles (WLMs): Application to a system of CTAB and NaCl, *Chemical Engineering Research and Design* 174 (2021) 30–41.
  5. Shchekin A.K., N.A. Volkov, I.N. Koltsov, N.Y. Tretyakov, S.S. Volkova, E.A. Turnaeva, Molecular-thermodynamic model of solubilization in direct spherical micelles of nonionic surfactants, *Colloid Journal* 83 (2021) 518–529.
  6. Zaldivar G., M. Conda-Sheridan, M. Tagliazucchi, Scission energy of surfactant wormlike micelles loaded with nonpolar additives, *Journal of Colloid and Interface Science* 604 (2021) 757–766.
  7. Zaldivar G., M. Conda-Sheridan, M. Tagliazucchi, Molecular basis for morphological transition of surfactant wormlike micelles triggered by encapsulated nonpolar molecules, *Langmuir* 37 (2021) 3093–3103.
  8. Danino D., T. Zemb, On the shape and connections of micelles: electron microscopy imaging inspiring thermodynamic modelling, *Current Opinion in Colloid and Interface Science* 61 (2022) 101607.

9. Goh K.B., Z. Li, X. Chen, Q. Lin, T. Wu, Reaction-diffusion model to quantify and visualize mass transfer and deactivation within core-shell polymeric microreactors, *Journal of Colloid and Interface Science* 608 (2022) 1999–2008.
  10. Wu X., Y. Wang, Y. Xiao, Y. Han, T. Li, Y. Ma, Synthesis and formation mechanism of PANI nanotubes prepared via facile aqueous solution polymerization, *Synthetic Metals* 291 (2022) 117212.
  11. Leng Z., Direct Assessment of the Hydrophobicity of Ionic Surfactants via the Characteristic Curvature (Cc) Concept, PhD Thesis, University of Toronto, 2023.
  12. Shang Y., J. Wang, J. Douth, P. Li, Q. Yin, X. Cao, Y. Feng, H. Yin, Saturated C<sub>22</sub>-tailed cationic surfactant in concentrated brine: Structural evolution of wormlike micelles and rheological properties, *Journal of Molecular Liquids* 378 (2023) 121561.
  13. Zaldivar G., M. Cosda-Sheridan, M. Tagliazucchi, Theoretical modeling of self-assembled nanostructures of amphiphiles in solution, in. *Supramolecular Nanotechnology* 1–3 (2023) 1161–1196.
- 201 E.S. Basheva, P.A. Kralchevsky, K.D. Danov, R.D. Stanimirova, N. Shaw, J.T. Petkov, Vortex in liquid films from concentrated surfactant solutions containing micelles and colloidal particles, *Journal of Colloid and Interface Science* 576 (2020) 345–355. (брой: 9)**
1. Chatzigiannakis E., N. Jaensson, J. Vermant, Thin liquid films: Where hydrodynamics, capillarity, surface stresses and intermolecular forces meet, *Current Opinion in Colloid and Interface Science* 53 (2021) 101441.
  2. Chatzigiannakis E., Thin liquid films: Where hydrodynamics, capillary, interfacial stresses, and intermolecular forces meet, Ph.D. Thesis, ETH Zurich, 2021.
  3. He L., L. Ding, G.I.N. Waterhouse, B. Li, F. Liu, P. Li, Performance matching between the surface structure of cucumber powdery mildew in different growth stages and the properties of surfactant solution, *Pest Management Science* 77 (2021) 3538–3546.
  4. Da Silva D.C., L.F. da Hora, J.D.C. de Araujo, G.M. Arruda, F.M.F. da Costa, M.A.F. Rodrigues, A.O. Wanderley Neto, Evaluation of nonylphenol surfactant in enhanced oil recovery by SAG and WAG method, *Fuel* 314 (2022) 122717.
  5. Gan J., H. Hu, M. Su, F. Chen, H. Wang, Construction, photocatalytic performance improvement and application of metal sulfide/g-C<sub>3</sub>N<sub>4</sub> heterojunctions, *Materials Reports* 36 (2022) 200100188.
  6. Kuhnhammer M., K. Graff, E. Loran, O. Soltweder, O. Lohmann, H. Frielinghaus, R. von Klitzing, Structure formation of PNIPAM microgels in foams and foam films, *Soft Matter* 18 (2022) 9249–9262.
  7. Kuhnhammer M., Internal structure of aqueous foams stabilized by surfactants or microgels, PhD Thesis, Darmstadt TU, Germany, 2022.
  8. Vakarelski I.U., F. Yang, S.T. Thoroddsen, Effects of interface mobility on the dynamics of colliding bubbles, *Current Opinion in Colloid and Interface Science* 57 (2022) 101540.
  9. Braun L., R. von Klitzing, When bulk matters: Disentanglement of the role of polyelectrolyte/complexes at surfaces in the bulk of foam films, *Langmuir* 39 (2023) 111–118.
- 199 V.I. Yavrukova, G.M. Radulova, K.D. Danov, P.A. Kralchevsky, H. Xu, Y.W. Ung, J.T. Petkov, Rheology of mixed solutions of sulfonated methyl esters and betaine in relation to the growth of giant micelles and shampoo applications, *Advances in Colloid and Interface Science* 275 (2021) 1–18. (брой: 22)**
1. Creato E.J., B.C. Alvarenga, P.G. de Moura, A. Perez-Gramadegz, Viscosity-driven stabilization of CO<sub>2</sub>-in-brine foams using mixtures of cocamidopropyl hydroxysultaine and sodium dodecyl sulfate, *Journal of Molecular Liquids* 329 (2021) 115614.
  2. Kelleppan V.T., J.P. King, C.S.G. Butler, A.P. Williams, K.L. Tuck, R.F. Tabor, Heads or tails? The synthesis, self-assembly, properties and uses of betaine and betaine-like surfactants. *Advances in Colloid and Interface Science* 297 (2021) 102528.
  3. Leslie M., E. Kardena, Q. Helmy, Biosurfactant and chemical surfactant effectiveness test for oil spills treatment in a saline environment, *IOP Conference Series: Earth and Environmental Science* 896 (2021) 012041.
  4. Molchanov V.S., A.I. Kuklin, A.S. Orekhov, N.A. Arkharova, O.E. Philippova, Temporally persistent networks of long-lived mixed wormlike micelles of zwitterionic and anionic surfactants, *Journal of Molecular Liquids* (2021) 116955.
  5. Mucic N., J. Skrbic, S. Buko, L. Petrovic, J. Katona, V.B. Fainerman, E.V. Aksenenko, E. Schneck, R. Miller, Adsorption of equimolar mixture of cationic and anionic surfactants at the water/hexane interface, *Colloids and Interfaces* 5 (2021) 1.
  6. Tian M., X. Chen, X. Zhou, Y. Qian, Z. Liu, Y. Fan, PH-responsive rheological properties and microstructure transition in mixture of anionic gemini/cationic monomeric surfactants, *Molecules* 26 (2021) 5013.
  7. Zhang C., Formulation of personal care products with biosurfactants, PhD Thesis, University of Manchester, 2021.



8. Godek E., E. Grzadska, U. Maciolek, Influence of polysaccharides with different chemical character on stability of montmorillonite suspensions in the presence of pseudoamphoteric cocamidopropyl betaine, *Journal of Molecular Liquids* 357 (2022) 119097.
  9. Molchanov V.S., A.V. Rastovtsev, K.B. Shishkhanova, A.I. Kuklin, O.E. Philippova, Strong viscosity increase in aqueous solutions of cationic c22-tailed surfactant wormlike micelles, *Fluids* 7 (2022) 8.
  10. Ouverney Ferreira M., H.F. Camara de Assis, A.M. Percedom, Cocamidopropyl betaine can behave as a cationic surfactant and electrostatically associate with polyacids of high molecular weight, *Colloids and Surfaces A* 654 (2022) 130123.
  11. Wypych G., *Handbook of Rheological Additives* (2022) 1–240.
  12. Abdel-Rahem R.A., F. Al-Akayleh, M. Al-Remawi, Tensiometric and rheological investigations of single and mixed systems consisting of cocamidopropyl betaine (CAPB) and sodium dodecyl benzene sulfonate (SDBS) in aqueous solutions, *Tenside, Surfactants, Detergents* 60 (2023) 214–222.
  13. Flores S.L., J. Mu, C.P. Cabry, J. Peterson, S.C. de Hert, L. Morrison, J.P. Stott, J.L. Cook, A.J. Masters, C. Hardacre, C. Avendano, Microstructural and thermodynamic characterization of wormlike micelles formed by polydisperse ionic surfactant solutions, *The Journal of Chemical Physics* 159 (2023) 054902.
  14. Klainen J., Will biosurfactants replace conventional surfactants? *Current Opinion in Colloid and Interface Science* 68 (2023) 101764.
  15. Lu S., J. Dong, X. Li, Gradual transformation of anionic/zwitterionic wormlike micelles from viscous to elastic domains: Unravelling the effect of anionic surfactant chain length, *Journal of Colloid and Interface Science* 641 (2023) 319328.
  16. Shishkhanova K.B., V.S. Molchanov, A.N. Baranov, E.P. Kharitonova, A.S. Orekhov, N.A. Arkharova, O.E. Philippova, A pH-triggered reinforcement of transient network of wormlike micelles by halloysite nanotubes of different charge, *Journal of Molecular Liquids* 270 (2023) 121032.
  17. Somavanshi D., C. Patil, G. Sonawane, K. Pansare, M. Saad, Formulation evaluation of the multifunctional paraben freeherbal shampoo from household herbs and comparison with the commercial shampoos, *International Journal of Pharmaceutical Science and Research* 14 (2023) 2483–2490.
  18. Zhang J., Q. Xu, J. Jiang, Redox and pH dual-stimuli responsive wormlike micelles based on CTAB and sodium dithiodibenzoate, *Journal of Dispersion Science and Technology* 44 (2023) 1750–1758.
  19. Молчанов В.С., О.Е. Филиппова, СТИМУЛ-ЧУВСТВИТЕЛЬНЫЕ СИСТЕМЫ НА ОСНОВЕ ПОЛИМЕРОПОДОБНЫХ ЧЕРВЕОБРАЗНЫХ МИЦЕЛЛ ИОНОГЕННЫХ ПАВ И ИХ СОВРЕМЕННЫЕ ПРИМЕНЕНИЯ, *Vysokomolekularnye soedineniâ. Seriâ C* 65 (2023) 122–137.
  20. Zhu Z., J. Zhang, F. Wang, W. Leng, L. Dang, H. Wei, Synergistic Effect and Phase Behavior of SCG-CAPB-H<sub>2</sub>O Ternary Compound System, *Applied Science* 14 (2024) 3081.
  21. Hao W., V.S. Molchanov, P.R. Podlesnyi, O.E. Philippova, Effect of Electrostatic Interactions in Wormlike Micelles of Surfactants Based on Betaine and Charged Tertiary Amine with the Same Hydrophobic Groups, *Colloid Journal* 86 (2024) 306–314.
  22. Wu X., G. Zhang, P. Wang, Phase behavior and rheological properties of AES/CAPB/H<sub>2</sub>O ternary system, *Applied Sciences* 14 (2024) 3605.
- 198 R.D. Stanimirova, P.A. Kralchevsky, K.D. Danov, H. Xu, Y.W. Ung, J.T. Petkov, Oil drop deposition on solid surfaces in mixed polymer-surfactant solutions in relation to hair- and skin-care applications, *Colloids and Surfaces A* 577 (2019) 53–61. (брой: 10)**
1. Andrade B., S.N. Knewstubb, K. Harris, C.J. Tucker, J.S. Katz, S.C. Zimmerman, Nonionic surfactant properties of amphiphilic hyperbranched polyglycerols, *Langmuir* 36 (2020) 10103–10109.
  2. Fan Y., F. Fu, L. Chen, J. Li, J. Zhang, Surface activity of alkoxy ethoxyethyl- $\beta$ -D-glucopyranosides, *Journal of Agricultural and Food Chemistry* 28 (2020) 2684–2695.
  3. Tran E., A.P. Carpenter, G.L. Richmond, Probing the molecular structure of coadsorbed polyethylenimine and charged surfactants at the nanoemulsion droplet surface, *Langmuir* 36 (2020) 9081–9089.
  4. Zhang L., Colloidal deposition versus shear and polymer/surfactant composition, PhD Thesis, Johns Hopkins University, 2020.
  5. Rueff B., R. Debels, R. Vargiolu, H. Zahaouani, H. Procopiou, Reading ceramic surfaces: Characterisation of surface treatments towards functional identification of vases, *Journal of Archaeological Science: Reports* 38 (2021) 103021.
  6. Tran E., A.N. Mapile, G.I. Richmond, Peeling back the layers: Investigating the effects of polyelectrolyte layering on surface structure and stability of oil-in-water nanoemulsions, *Journal of Colloid and Interface Science* 599 (2021) 706–716.
  7. Cubides T.A.P., S. Amin, Surface activity of surfactant-polyelectrolyte mixtures through nanoplasmonic sensing technology, *Cosmetics* 9 (2022) 105.

8. Patino Agudelo A.J., M.L. Barbosa, L.H. Mendes da Silva, G.M. Dias Ferreira, Thermodynamics of aggregation between the cationic surfactant and polymer based on biodegradable poly(vinyl alcohol), *Journal of Physical Chemistry B* 126 (2022) 9424–9434.
  9. Zhang L., H.A. Jerri, M.A. Bevan, Colloidal Deposition by Polymer-Surfactant Complexes with Dilution and Shear, *Langmuir* 39 (2023) 8680–8689.
  10. Wu X., G. Zhang, P. Wang, Phase behavior and rheological properties of AES/CAPB/H<sub>2</sub>O ternary system, *Applied Sciences* 14 (2024) 3605.
- 197 K.D. Danov, P.A. Kralchevsky, S.D. Stoyanov, J.L. Cook, I.P. Stott, Analytical modeling of micelle growth. 2. Molecular thermodynamics of mixed aggregates and scission energy in wormlike micelles, *Journal of Colloid and Interface Science* 551 (2019) 227–241. (брой: 19)**
1. Kaliszczak W., M. Grochowski, A. Nozal-Viercinska, M. Brycht, D. Checinska-Majak, B. Gotebiovska, Effect of azathioprine on the parameters of double Hg/chlorate(VII) interface layer in the presence of nonionic surfactants, *Physicochemical Problems of Mineral Processing* 55(6) (2019) 1350–1356.
  2. Eroshkin Yu.A., L.Ts. Adzhemyan, A.K. Shchekin, A general approach to describing fast relaxation with regard to specific features of micellar models, *Colloid Journal* 82 (2020) 513–521.
  3. Aceituno N.E.C., Calculo de la tension interfacial de soluciones acuosas de surfactants no-ionicos mediante la teoria del gradient cuadrado, PhD Thesis, Universidad de concepcion, Chile, 2021.
  4. Fieber W., A. Scheklaukov, W. Kunz, M. Pleines, D. Benczedi, T. Zemb, Towards a general understanding of the effects of hydrophobic additives on the viscosity of surfactant solutions. *Journal of Molecular Liquids* 329 (2021) 115523.
  5. Jamadagni S.N., X. Ko, J.B. Thomas, D.M. Elke, Salt- and pH- dependent viscosity of SDS/LAPB Solutions: Experiments and a semiempirical thermodynamic model, *Langmuir* 37 (2021) 8714–8725.
  6. Pahari S., B. Bhadriraju, M. Akbulut, J.S.-I. Kwon, A slip-spring framework to study relaxation dynamics of entangled wormlike micelles with kinetic Monte Carlo algorithm, *Journal of Colloid and Interface Science* 600 (2021) 550–560.
  7. Pahari S., J. Moon, M. Akbulut, S. Hwang, J.S.-I. Kwon, Model predictive control for wormlike micelles (WLMs): Application to a system of CTAB and NaCl, *Chemical Engineering Research and Design* 174 (2021) 30–41.
  8. Shchekin A.K., N.A. Volkov, I.N. Koltsov, N.Y. Tretyakov, S.S. Volkova, E.A. Turnaeva, Molecular-thermodynamic model of solubilization in direct spherical micelles of nonionic surfactants, *Colloid Journal* 83 (2021) 518–529.
  9. Vatin M., M. Duvail, P. Guilbaud, J.-F. Dufreche, Liquid/liquid interface in periodic boundary condition, *Physical Chemistry Chemical Physics* 23 (2021) 1178–1187.
  10. Wei L., L. Zhang, M. Chao, X. Jia, C. Liu, L. Shi, Synthesis and study of a new type of nonanionic demulsifier for chemical flooding emulsion demulsification, *ACS Omega* 6 (2021) 17709–17719.
  11. Zaldivar G., M. Conda-Sheridan, M. Tagliazucchi, Scission energy of surfactant wormlike micelles loaded with nonpolar additives, *Journal of Colloid and Interface Science* 604 (2021) 757–766.
  12. Zavidar G., M. Conda-Sheridan, M. Tagliazucchi, Molecular basis for the morphological transitions of surfactant wormlike micelles triggered by encapsulated nonpolar molecules, *Langmuir* 37 (2021) 3093–3103.
  13. Blahnik J., E. Muller, L. Braun, P. Denk, W. Kunz, Nanoscopic microheterogeneities or pseudo-phase separations in non-conventional liquids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101355.
  14. Carro N., A. Mejfa, Prediction of micellar thermodynamics of nonionic surfactants based on the square gradient theory, *Langmuir* 38 (2022) 14527–14539.
  15. Mandal T., Scission energy and topology of micelles controlled by the molecular structure of additives, *Soft Matter* 18 (2022) 1678–1687.
  16. Bhat B., S. Pahari, J.S.-I. Kwon, M.E.S. Akbulut, Stimuli-responsive viscosity modifiers, *Advances in Colloid and Interface Science* 321 (2023) 103025.
  17. Eroshkin Yu.A., L.Ts. Adzhemyan, A.K. Shchekin, Model of inverse “dry” micelles with coexisting spherical, globular and cylindrical aggregates, *Physica A* 615 (2023) 128615.
  18. Sun X., J. Ge, X. Shi, Surfactant–polymer binary oil-displacement agents suitable for multiple oilfield blocks, *Journal of Dispersion Science and Technology* 44 (2023) 1607–1617.
  19. Zaldivar G., M. Cosda-Sheridan, M. Tagliazucchi, Theoretical modeling of self-assembled nanostructures of amphiphiles in solution, in. *Supramolecular Nanotechnology* 1–3 (2023) 1161–1196.
- 196 K.D. Danov, P.A. Kralchevsky, S.D. Stoyanov, J.L. Cook, I.P. Stott, Analytical modeling of micelle growth. 1. Chain-conformation free energy of binary mixed spherical, wormlike and lamellar micelles, *Journal of Colloid and Interface Science* 547 (2019) 245–255. (брой: 22)**
1. Jung S., T.E. Park, S.H. Lee, A self-assembled conjugated micelle with improve sensitivity for monitoring alkaline phosphate activity, *Tetrahedron Letters* 60(30) (2019) 2022–2025.

2. Wang Z., P. Li, K. Ma, Y. Chen, J. Penfold, R.K. Thomas, D.W. Roberts, H. Xu, J.T. Petkov, Z. Yan, D.A. Venero, The structure of alkyl ester sulfonate surfactant micelles: The impact of different valence electrolytes and surfactant structure on micelle growth, *Journal of Colloid and Interface Science* 557 (2019) 124–134.
  3. Eroshkin Yu.A., L.Ts. Adzhemyan, A.K. Shchekin, A general approach to describing fast relaxation with regard to specific features of micellar models, *Colloid Journal* 82 (2020) 513–521.
  4. Li P., Z. Wang, K. Ma, Y. Chen, Z. Yan, J. Panfold, R.K. Thomas, M. Campana, J.R.P. Webster, A. Washington, Multivalent electrolyte induced surface ordering and solution self-assembly in anionic surfactant mixtures: Sodium dodecyl sulfate and sodium diethylene glycol monododecyl sulfate, *Journal of Colloid and Interface Science* 565 (2020) 567–581.
  5. Park T.E., S.H. Lee, A micellized fluorescence sensor based on amplified quenching for highly sensitive detection of non-transferrin-bound iron in serum, *Dalton Transaction* 49 (2020) 4660–4664.
  6. Raychaudhuri R., A. Padney, A. Hegde, S.M. Abdul Fayaz, D.K. Chellappan, K. Dua, S. Mutalik, Factors affecting the morphology of some organic and inorganic nanostructures for drug delivery: characterization, modifications, and toxicological perspectives, *Expert Opinion on Drug Delivery* 17 (2020) 1737–1765.
  7. Wand C.R., M. Panoukidou, A. Del Rengo, R.L. Anderson, P. Carbone, The relationship between wormlike micelle scission free energy and micellar composition: The case of sodium lauryl ether sulfate and cocamidopropyl betaine, *Langmuir* 36 (2020) 12288–12298.
  8. Yang M., Y. Li, Z. Ge, Z. Zhou, C. Chai, H. Wang, L. Zhang, T. Bo, Viscoelastic surfactant fracturing fluids for use in coal seams: Effects of surfactant composition and formulation, *Chemical Engineering Science* 215 (2020) 115370.
  9. Fieber W., A. Scheklauskov, W. Kunz, M. Pleines, D. Benczedi, T. Zemb, Towards a general understanding of the effects of hydrophobic additives on the viscosity of surfactant solutions. *Journal of Molecular Liquids* 329 (2021) 115523.
  10. Jamadagni S.N., X. Ko, J.B. Thomas, D.M. Elke, Salt- and pH- dependent viscosity of SDS/LAPB Solutions: Experiments and a semiempirical thermodynamic model, *Langmuir* 37 (2021) 8714–8725.
  11. Shatalina E.I., V.S. Molchanov, A.I. Kuklin, O.E. Phillipova, Effect of the charge of a small amount of a cosurfactant on the viscoelasticity of zwitterionic wormlike micelles, *Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques* 15 (2021) 914–919.
  12. Shchekin A.K., N.A. Volkov, I.N. Koltsov, N.Y. Tretyakov, S.S. Volkova, E.A. Turnaeva, Molecular-thermodynamic model of solubilization in direct spherical micelles of nonionic surfactants, *Colloid Journal* 83 (2021) 518–529.
  13. Tang L., Li J., Zhao Q., Pan T., Zhong H., Wang W., Advanced and innovative nano-systems for anticancer targeted drug delivery, *Pharmaceutics* 13 (2021) 1151.
  14. Zaldivar G., M. Conda-Sheridan, M. Tagliazucchi, Scission energy of surfactant wormlike micelles loaded with nonpolar additives, *Journal of Colloid and Interface Science* 604 (2021) 757–766.
  15. Blahnik J., E. Muller, L. Braun, P. Denk, W. Kunz, Nanoscopic microheterogeneities or pseudo-phase separations in non-conventional liquids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101355.
  16. Danino D., T. Zemb, On the shape and connections of micelles: electron microscopy imaging inspiring thermodynamic modelling, *Current Opinion in Colloid and Interface Science* 61 (2022) 101607.
  17. Kalline Gomes Carvalho Barros G., L.J.N. Duarte, R.P.F. Melo, E.L.B. Neto, Influence of interfacial, thermodynamic and hydrophobic parameters on Acid Red 57 removal by ionic micellar flocculation, *Separation Science and Technology (Philadelphia)* 57 (2022) 1825–1836.
  18. Mandal T., Scission energy and topology of micelles controlled by the molecular structure of additives, *Soft Matter* 18 (2022) 1678–1687.
  19. Wu Y., C. Ye, L. Yu, Y. Liu, J. Huang, J. Bi, L. Xue, J. Sun, J. Yang, W. Zhang, X. Wang, P. Xiong, Soft template-directed interlayer confinement synthesis of a Fe-Co dual single-atom catalyst for Zn-air batteries, *Energy Storage Materials* 45 (2022) 805–813.
  20. Eroshkin Yu.A., L.Ts. Adzhemyan, A.K. Shchekin, Model of inverse “dry” micelles with coexisting spherical, globular and cylindrical aggregates, *Physica A* 615 (2023) 128615.
  21. Maoche C., Y. Zhou, Y. Wang, J. Yang, Recent advances of the key parameters of 3d block transition metal single and dual atoms catalysts: from their synthesis to their practical applications, *Materials Today Sustainability* 21 (2023) 100288.
  22. Zaldivar G., M. Cosda-Sheridan, M. Tagliazucchi, Theoretical modeling of self-assembled nanostructures of amphiphiles in solution, in: *Supramolecular Nanotechnology* 1–3 (2023) 1161–1196.
- 195 G. Lyutskanova-Zhekova, K. Danov, Effect of ionic strength on the electro-dipping force. In: G. Nikolov, N. Kolkovska, K. Georgiev (Eds.), Numerical Methods and Applications. LNCS 11189, Springer, 2019, 433–440. (брой: 1)**

1. Lotito V., M. Karlusic, N. Jaksic, K.T. Luketic, U. Muller, T. Zambelli, S. Fazinic, Shape deformation in ion beam irradiated colloidal monolayers: An AFM investigation, *Nanomaterials* 10 (2020) 453.
- 194 E.S. Basheva, K.D. Danov, G.M. Radulova, P.A. Kralchevsky, H. Xu, Y.W. Ung, J.T. Petkov, Properties of the micelles of sulfonated methyl esters determined from the stepwise thinning of foam films and by rheological measurements, *Journal of Colloid and Interface Science* 538 (2019) 660–670. (брой: 6)**
1. Corrente G.A., F. Scarpelli, P. Caputo, C.O. Rossi, A.C.G. Chidichimo, A. Beneduci Chemical–physical and dynamical–mechanical characterization on *Spartium junceum* L. cellulosic fiber treated with softener agents: a preliminary investigation, *Scientific Reports* 11 (2021) 35.
  2. Kelleppan V.T., J.P. King, C.S.G. Butler, A.P. Williams, K.L. Tuck, R.F. Tabor, Heads or tails? The synthesis, self-assembly, properties and uses of betaine and betaine-like surfactants. *Advances in Colloid and Interface Science* 297 (2021) 102528.
  3. Benzemra N., L. Tennouga, B. Bouras, K. Madjahed, H. Abdelkader, Ion pair [NaCMC-CAPB] complex formed via interaction of carboxymethylcellulose sodium salt (NaCMC) with cocamidopropyl betaine (CAPB), *Physical Chemistry Research* 11 (2023) 549–558.
  4. Braun L., M. Hohenschutz, O. Diat, R. von Klitzing, P. Bauduin, Repulsive-but sticky – Insights into the non-ionic foam stabilization mechanism by superchaotropic nano-ions, *Journal of Colloid and Interface Science* 641 (2023) 437–448.
  5. Niu Q., Q. Lv, Z. Dong, F. Zhang, H. Wang, Research progress on the properties of foam systems containing wormlike micelles, *China Surfactant Detergents and Cosmetics* 53 (2023) 915–924.
  6. Ulianovski N.V., I.S. Varsegov, S.A. Sypalov, D.M. Mazur, D.S. Kosyakov, A.T. Lebedev, Cocamidopropyl betaine — a potential source of nitrogen-containing disinfection by-products in pool water, *Environmental Science Pollution Research* (2023)
- 193 G.M. Radulova, T.G. Slavova, P.A. Kralchevsky, E.S. Basheva, K.G. Marinova, K.D. Danov, Encapsulation of oil and fragrances by core-in-shell structures form silica particles, polymers and surfactants: The brick-and-mortar concept, *Colloids and Surfaces A* 559 (2018) 351–364. (брой: 19)**
1. Rodriguez B., B.P. Binks, Capsules from Pickering emulsion templates, *Current Opinion in Colloid and Interface Science* 44 (2019) 107–129.
  2. Smachenko S., I. Kozlova, O. Zemskova, T. Nikiporova, S. Kozarev, Method of modifying Portland cement with ultrarine component, *Advances in Intelligent Systems and Computing* 983 (2019) 807–816.
  3. Sy P.M., S.M. Dieng, M. Diarra, Formulation, stability and physicochemical properties of Pickering emulsions: An overview, *Applied Physical Research* 11(1) (2019) 41–51.
  4. Wiercigroch-Walkosz K., J. Chichos, M. Karbowski, Growth of silica shell on hydrophobic upconverting nanocrystals – Mechanism and control of porosity, *Colloids and Surfaces A* 572 (2019) 1–9.
  5. Eroshkin Yu.A., L.Ts. Adzhemyan, A.K. Shchekin, A general approach to describing fast relaxation with regard to specific features of micellar models, *Colloid Journal* 82 (2020) 513–521.
  6. Ibanez M.D., V.M. Sanchez-Ballester, M.A. Blazquez, Encapsulated limonene: A pleasant lemon-like aroma with promising application in the agri-food industry. A review, *Molecules* 25 (2020) 2598.
  7. Pereira C., A.M. Pereira, C. Freire, T.V. Pinto, R.S. Costa, J.S. Teixeira, Nanoengineered textiles: From advanced functional nanomaterials to groundbreaking high-performance clothing, *Handbook of Functionalized Nanomaterials for Industrial Applications* (2020) 611–714.
  8. Stasse M., E. Laurichesse, M. Vandroux, T. Ribaut, V. Heroguez, V. Schmitt, Cross-linking of double oil-in-water-in-oil emulsions: A new way for fragrance encapsulation with tunable sustained release, *Colloids and Surfaces A* 607 (2020) 125448.
  9. Wang S., D. Jang, Z. Zhou, Y. Shen, L. Jiang, A novel photothermo-responsive nanocarrier for the controlled release of low-volatile fragrances, *RSC Advances* 10 (2020) 14867–14876.
  10. Baerle A., Microencapsulation of functional components in the food technology: Partially optimistic view, *Journal of Engineering Science* 28 (2021) 139–157.
  11. Scherbakov A., A. Babanina, A. Matusevich, Passive probe-coil magnetic field test of stress-strain state for welded joints, *Advances in Intelligent Systems and Computing* 1259 (2021) 321–323.
  12. Song R., S. Cho, Shin S., H. Kim, J. Lee, From shaping to functionalization of micro-droplets and particles, *Nanoscale Advances* 3 (2021) 3395–3416.
  13. Zhang S., J. Wang, X. Yang, B. Zhang, T. Ren, Impact of EO chain length of dodecanol ethoxylates (C<sub>12</sub>E<sub>n</sub>) on the rheological properties and physical stability of pesticide suspension concentrate, *Colloids Surfaces A* (2021) 127163.
  14. Cai Y., Y. Zhang, Q. Qu, R. Xiong, H. Tang, C. Huang, Encapsulated microstructures of beneficial functional lipids and their applications in foods and biomedicines, *Journal of Agricultural and Food Chemistry* 70 (2022) 8165–8187.



15. Okur A.C., P. Erni, L. Ouali, D. Benczedi, E. Amstad, Succinic acid based particles as carriers of volatile substances, *ACS Sustainable Chemistry and Engineering* 10 (2022) 2914–2920.
  16. Tian Q., A novel approach for constructing bi-layered microcapsules for stable encapsulation and sustained release of essential oils, PhD Thesis, University of Surrey, 2022.
  17. Baerle A., PROLONGAREA FUNCȚIONALITĂȚII COMPUȘILOR BIOLOGIC ACTIVI ÎN COMPOZIȚIILE ALIMENTARE, Tehnika UTM, 2023.
  18. Russel S., N. Bruns, Encapsulation of Fragrances in Micro- and Nano-Capsules, Polymeric Micelles, and Polymersomes, *Macromolecular Rapid Communications* 44 (2023) 2300120.
  19. Tercki D., B. Orlinska, D. Slotwinska, Pickering emulsion polymerization of styrene towards alpha-functionalized polystyrene latex: parameters and process conditions, *Polymers* 68 (2023) 206–214.
- 192 K.D. Danov, P.A. Kralchevsky, S.D. Stoyanov, J.L. Cook, I.P. Stott, E.G. Pelan, Growth of wormlike micelles in nonionic surfactant solutions: Quantitative theory vs. experiment, *Advances in Colloid and Interface Science* 256 (2018) 1–22. (брой: 64)**
1. Garza-Arevalo J.I., A. Intiso, A. Proto, F. Rossi, M. Sanchez-Dominguez, Trichloroethylene solubilization using a series of commercial biodegradable ethoxylated fatty alcohol surfactant, *Journal of Chemical Technology and Biotechnology* 94 (2019) 3523–3529.
  2. Jung S., T.E. Park, S.H. Lee, A self-assembled conjugated micelle with improved sensitivity for monitoring alkaline phosphatase activity, *Tetrahedron Letters* 60(30) (2019) 2022–2025.
  3. Li P., Y. Guo, Z. Lu, W. Zhang, L. Hou, Syntheses, surface activities and aggregation morphologies of a series of novel itaconic acid based asymmetrical gemini surfactants, *Journal of Molecular Liquids* 290 (2019) 111218.
  4. Panoukidou M., C.R. Wand, A. del Regino, R.I. Anderson, O. Carbone, Constructing the phase diagram of sodium laurylthoxysulfate using dissipative particle dynamics, *Journal of Colloid and Interface Science* 557 (2019) 34–44.
  5. Pleines M., W. Kunz, T. Zemb, D. Benczedi, W. Fieber, Molecular factors governing the viscosity peak of giant micelles in the presence of salt and fragrances, *Journal of Colloid and Interface Science* 537 (2019) 682–693.
  6. Pleines M., W. Kunz, T. Zemb, Understanding and prediction of the clouding phenomenon by spontaneous and effective packing concepts, *Journal of Surfactants and Detergents* 22(5) (2019) 1011–1021.
  7. Spadina M., K. Bohinc, T. Zemb, J.-F. Dufreche, Synergistic solvent extraction is driven by entropy, *ACS Nano* 13 (2019) 13745–13758.
  8. Tu Y., Q. Chen, Y. Shang, H. Teng, H. Liu, Photoresponsive behavior of wormlike micelles constructed by gemini surfactant 12-3-12.Br and different cinnamate derivatives, *Langmuir* 35(13) (2019) 4634–4645.
  9. Yin H., Y. Feng, P. Li, J. Douth, Y. Han, Y. Mei, Cryogenic viscoelastic surfactant fluids: Fabrication and application in a subzero environment, *Journal of Colloid and Interface Science* 551 (2019) 89–100.
  10. Zhao M., Z. Gao, C. Dai, X. Sun, Y. Zhang, X. Yang, Y. Wu, Effect of silica nanoparticles on wormlike micelles with different entanglement degrees, *Journal of Surfactants and Detergents* 22 (2019) 587–595.
  11. Aferni A.E., M. Guetari, M. Kamli, T. Tajouri, A. Ponton, A structural study of a polymer-surfactant system in dilute and entangled regime: Effect of high concentrations of surfactant and polymer molecular weight, *Journal of Molecular Structure* 1199 (2020) 127052.
  12. Chakraborty G., S. Bardhan, S. Ghosh, S.K. Saha, Relevance of  $\pi$ -stacking in tuning the neighboring structural pattern of soft nano-aggregates, *Journal of Molecular Liquids* 317 (2020) 114013.
  13. Da Silva M.A., V. Calabrese, J. Schmitt, K.M.Z. Hossain, S.J. Briant, N. Mahmoudi, J.L. Scott, K.J. Edler, Impact of wormlike micelles on nano and macroscopic structure of TEMPO-oxidized cellulose nanofibril hydrogels, *Soft Matter* 16 (2020) 4887–4896.
  14. Endter L.J., Y. Smirnova, H.J. Risselada, Density Field Thermodynamic Integration (DFTI): A "Soft" Approach to Calculate the Free Energy of Surfactant Self-Assemblies, *Journal of Physical Chemistry B* 124 (2020) 6775–6785.
  15. Eroshkin Y.A., L.T. Adzhemyn, A.K. Shchekin, A general approach to describing fast relaxation with regard to specific features of micellar models, *Colloid Journal* 82 (2020) 513–521.
  16. Fan Y., F. Fu, L. Chen, J. Li, J. Zhang, Surface activity of alkoxy ethoxyethyl  $\beta$ -D-glucopyranosides, *Journal of Agricultural and Food Chemistry* 68 (2020) 2684–2695.
  17. Glatter O., S. Salentinig, Inverting structures: from micelles via emulsions to internally self-assembled water and oil continuous nanocarriers, *Current Opinion in Colloid and Interface Science* 49 (2020) 82–93.
  18. Kulshrestha A., G. Kumar, N.H. Khan, A. Kumar, Metal-based surface active ionic liquids: Self-assembling characteristics and C[ $\sigma$ ]C bond functionalization of tertiary amines with TMSCN in aqueous micellar solutions, *Journal of Molecular Liquids* 299 (2020) 112157.
  19. Li Y., T. Sato, Multiple association-dissociation equilibria in solutions of amphiphilic molecules, *Langmuir* 36 (2020) 8323–8343.

20. Ojha S.K., R. Pattnaik, P.K. Singh, S. Dixit, S. Mishra, S. Pal, S. Kumar, Virus as a nanocarrier for drug delivery redefining medical therapeutics – a status report, *Combinatorial Chemistry & High Throughput Screening* 23 (2020) 1–11.
21. Rafique A.S., S. Khodaparast, A.S. Poulos, W.N. Sharratt, E.S.J. Robles, J.T. Cabral, Micellar structure and transformations in sodium alkylbenzenesulfonate (NaLAS) aqueous solutions: Effects of concentration, temperature, and salt, *Soft Matter* 16 (2020) 7835–7844.
22. Seid S.M., Étude de l'influence des VES et nanoparticules sur la conductivité du proppant après la fracturation hydraulique, PhD Thesis, Faculté des Hydrocarbures, des Energies Renouvelables et Sciences de la Terre et de l'Univers, Université de Kasdi Merbah Ouargla, 2020.
23. Singh H., H. Bhowmick, Lubrication characteristics and wear mechanism mapping for hybrid aluminium metal matrix composite sliding under surfactant functionalized MWCNT-oil, *Tribology International* 145 (2020) 106152.
24. Spadina M., K. Bohinc, Multiscale modeling of solvent extraction and the choice of reference state: Mesoscopic modeling as a bridge between nanoscale and chemical engineering, *Current Opinion in Colloid and Interface Science* 46 (2020) 94–113.
25. Taddese T., R.L. Anderson, D.J. Bray, P.B. Warren, Recent advances in particle-based simulation of surfactants, *Current Opinion in Colloid and Interface Science* 48 (2020) 137–148.
26. Wand C.R., M. Panoukidou, A. Del Rengo, R.L. Anderson, P. Carbone, The Relationship between Wormlike Micelle Scission Free Energy and Micellar Composition: The Case of Sodium Lauryl Ether Sulfate and Cocamidopropyl Betaine, *Langmuir* 36 (2020) 12288–12298.
27. Aceituno N.E.C., Calculo de la tension interfacial de soluciones acuosas de surfactants no-ionicos mediante la teoria del gradiente cuadrado, PhD Thesis, Universidad de concepcion, Chile, 2021.
28. De Oliveira L.H., R.R. Pinto, E.D.S. Monteiro Filho, M. Aznar, Density, Refractive Index, pH, and Cloud Point Temperature Measurements and Thermal Expansion Coefficient Calculation for PPG<sub>400</sub>, PE62, L64, L35, PEG<sub>400</sub>, PEG<sub>600</sub>, or PEG<sub>1000</sub>+ Water Systems, *Journal of Chemical and Engineering Data* 66 (2021) 2959–2975.
29. Endter L.J., H.J. Risselada, Where are those lipid nano rings? *Journal of Colloid and Interface Science* 587 (2021) 789–796.
30. Fieber W., A. Scheklaikov, W. Kunz, M. Pleines, D. Benczedi, T. Zemb, Towards a general understanding of the effects of hydrophobic additives on the viscosity of surfactant solutions. *Journal of Molecular Liquids* 329 (2021) 115523.
31. Husain A., A.A. Adewunmi, M. Mahmoud, M.S. Kamal, M.A. Al-Harathi, Stability of diesel/water emulsions: Experimental and modeling investigations, *Journal of Energy Resources Technology* 143 (2021) 112302.
32. Jadhav S.R., G. Bryant, J.P. Mata, A. Ife, D.S. Eldridge, E.A. Palombo, I.H. Harding, R.M. Shah, Structural aspects of a self-emulsifying multifunctional amphiphilic excipient: Part I. The case of Gelucire® 44/14, *Journal of Molecular Liquids* 340 (2021) 117172.
33. Jadhav S.R., G. Bryant, J.P. Mata, D.S. Eldridge, E.A. Palombo, I.H. Harding, R.M. Shah, Structural aspects of a self-emulsifying multifunctional amphiphilic excipient: Part II. The case of Cremophor EL, *Journal of Molecular Liquids* 344 (2021) 117881.
34. Larsson J., A. Sanchez-Fernandez, A.E. Leung, R. Schweinz, B. Wu, T. Nylander, S. Ulvenlund, Molecular structure of maltoside surfactants controls micelle formation and rheological behavior, *Journal of Colloid and Interface Science* 581 (2021) 895–904.
35. Milanovic M., D. Cirin, V. Krstonosic, The interactions in ternary system made of xanthan gum, Carbopol 940 and anionic/nonionic surfactant, *Journal of Molecular Liquids* 344 (2021) 117696.
36. Pahari S., J. Moon, M. Akbulut, S. Hwang, J.S.-I. Kwon, Model predictive control for wormlike micelles (WLMs): Application to a system of CTAB and NaCl, *Chemical Engineering Research and Design* 174 (2021) 30–41.
37. Peng R., J. Tong, L. Zhao, X. Tang, X. Peng, X. He, Molecular dynamics study on the adsorption synergy of MWCNTs/MoS<sub>2</sub> nanofluids and its influence of internal-cooling grinding surface integrity, *Applied Surface Science* 563 (2021) 150312.
38. Rehman A., M.U. Nisa, M. Usman, Z. Ahmad, T.H. Bokhari, H.M.A.U. Rahman, A. Resheed, Application of cationic-nonionic surfactant based nanostructured dye carriers: Mixed micellar solubilization, *Journal of Molecular Liquids* 326 (2021) 115345.
39. Shchekin A.K., N.A. Volkov, I.N. Koltsov, N.Y. Tretyakov, S.S. Volkova, E.A. Turnaeva, Molecular-thermodynamic model of solubilization in direct spherical micelles of nonionic surfactants, *Colloid Journal* 83 (2021) 518–529.
40. Tian M., X. Chen, X. Zhou, Y. Qian, Z. Liu, Y. Fan, PH-responsive rheological properties and microstructure transition in mixture of anionic gemini/cationic monomeric surfactants, *Molecules* 26 (2021) 5013.
41. Vatin M., M. Duvail, P. Guilbaud, J.-F. Dufreche, Liquid/liquid interface in periodic boundary condition, *Physical Chemistry Chemical Physics* 23 (2021) 1178–1187.

42. Arkhipov V.P., R.V. Arkhipov, E.V. Petrova, A. Filippov, Abnormal diffusion behavior and aggregation of oxyethylated alkylphenols in aqueous solutions near their cloud point, *Journal of Molecular Liquids* 358 (2022) 119203.
43. Blahnik J., E. Muller, L. Braun, P. Denk, W. Kunz, Nanoscopic microheterogeneities or pseudo-phase separations in non-conventional liquids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101355.
44. Carro N., A. Mejfa, Prediction of micellar thermodynamics of nonionic surfactants based on the square gradient theory, *Langmuir* 38 (2022) 14527–14539.
45. Chen I.-C., M.-T. Lee, Rhamnolipid biosurfactants for oil recovery: Salt effects on the structural properties investigated by mesoscale simulations, *ACS Omega* 7 (2022) 6223–6237.
46. Guo W., C. Liu, N. Li, M. Xi, Y. Che, S. Zhang, Z. Wang, Micelle dynamic reconstruction to effectively modulate the transmission of smart windows, *Journal of Physical Chemistry B* 126 (2022) 4872–4880.
47. Kroll P., J. Benke, S. Enders, C. Brandenbusch, G. Sadowski, Influence of temperature and concentration on the self-assembly of nonionic  $C_{12}E_6$  surfactants: A light scattering study, *ACS Omega* 7 (2022) 7057–7065.
48. Lim C., J.D. Ramsey, D. Hwang, S.C.M. Teixeira, C.-D. Poon, J.D. Strauss, E.P. Rosen, M. Sokolsky-Papkov, A.V. Kabanov, Drug-dependent morphological transitions in spherical and worm-like polymeric micelles define stability and pharmacological performance of micellar drugs, *Small* 18 (2022) 2103552.
49. Ocherednyuk E.A., R.I. Garipova, I.M. Bogdanov, B.Kh. Gafiatullin, E.D. Sultanova, D.A. Mironova, A.G. Daminova, V.G. Evtugin, V.A. Burilov, S.E. Solovieva, I.S. Antipin, Amphiphilic N-oxyethylimidazolium calixarenes: synthesis, micellar solubilization and molecular recognition of Adenine-containing nucleotides, *Colloids and Surfaces A* (2022) 129236.
50. Ojha S.K., R. Pattnaik, P.K. Singh, S. Dixit, S. Mishra, S. Pal, S. Kumar, Virus as a nanocarrier for drug delivery redefining medical therapeutics-A status report, *Combinatorial Chemistry and High Throughput Screening* 25 (2022) 1619–1629.
51. Shchekin A.K., L.Ts. Adzhemyan, Yu.A. Eroshkin, N.A. Volkov, Work of formation of direct and inverse micelle as a function of aggregation number, *Colloid Journal* 84 (2022) 109–119.
52. Stemplinger S., M. Duvail, J.-F. Dufreche, Molecular dynamics simulations of  $\text{Eu}(\text{NO}_3)_3$  salt with DMDOHEMA in n-alkanes: Unravelling curvature properties in liquid-liquid extraction, *Journal of Molecular Liquids* 348 (2022) 118035.
53. Tang H., J. Song, M. Zhao, Z. Zhang, W. Liu, Z. Yan, Performance evaluation and mechanism study of seawater-based circulatory fracturing fluid based on pH-regulated wormlike micelles, *Frontiers in Chemistry* 10 (2022) 848269.
54. Yue J., Y. Chen, X. Wang, B. Xu, Z. Xu, X. Liu, Z. Chen, K. Zhang, W. Jiang, Artificial phosphatase upon premicellar nanoarchitectonics of lanthanum complexes with long-chained imidazole derivatives, *Journal of Colloid and Interface Science* 627 (2022) 459–468.
55. Eroshkin Yu.A., L.Ts. Adzhemyan, A.K. Shchekin, Model of inverse “dry” micelles with coexisting spherical, globular and cylindrical aggregates, *Physica A* 615 (2023) 128615.
56. Tian Y., Q. Yuan, C. Yang, K. Yang, L. Yu, M. Zhang, X. Zhu, Insights into the efficiency loss of naphthalene superplasticizer in alkali-activated slag pastes, *Journal of Building Engineering* 68 (2023) 106176.
57. Falsini S., A. Intiso, F. Spinozzi, S. Ristori, N. Marchettini, J.I. Garza-Arevalo, S. Prevost, M. Sanchez-Domiguez, F. Rossi, Physico-chemical characterization of Synperonic™ 91/5 self-assembly behaviour in water, *Colloids Surfaces A* 673 (2023) 131799.
58. Pal N., Y. Alzahid, A.M. AlSofi, M. Ali, H. Hoteit, Review on Microemulsions for Conformance Improvement Technology: Fundamentals, Design Considerations, and Perspectives, *Energy and Fuels* 37 (2023) 858–875.
59. Hu Y., Y. Chen, Z. Cai, S. Lei, R. Guo, Unusual Increasing Viscoelasticity of Wormlike Micelles Composed of Imidazolium Gemini Surfactants with Temperature, *Langmuir* 39 (2023) 7143–7153.
60. Winkler I., M. Cartes, A. Mejfa, Micellization properties for polyoxyethylene sorbitans in aqueous media, *Fluid Phase Equilibria* 575 (2023) 113915.
61. Pahari S., Y.-T. Lin, S. Liu, C.H. Lee, M. Akbulut, J. S.-I. Kwon, Stochastic optimal control of mesostructure of supramolecular assemblies using dissipative particle dynamics and dynamic programming with experimental validation, *Chemical Engineering journal* 475 (2023) 145087.
62. Bhat B., S. Pahari, J.S.-I. Kwon, M.E.S. Akbulut, Stimuli-responsive viscosity modifiers, *Advances in Colloid and Interface Science* 321 (2023) 103025.
63. Sagisaki M., Y. Sato, S. Kiani, A. Shirin, A. Tretya, M. Azmi, R.M. Enick, S.E. Rogers, C. Hill, J. Eastoe, Thickening supercritical  $\text{CO}_2$  at high temperatures with rod-like reverse micelles, *Colloids and Surfaces A* 686 (2024) 133302.
64. Shadloo A., K. Peyvandim, A. Shojaeian, S. Shariat, Prediction of the second critical micelle concentration of aqueous tween and span solutions via CPA EoS: Application of the quantitative theory in growth of wormlike micelles, *Fluid Phase Equilibria* 582 (2024) 114085.

- 191 **K.D. Danov, M.T. Georgiev, P.A. Kralchevsky, G.M. Radulova, T.D. Gurkov, S.D. Stoyanov, E.G. Pelan, Hardening of particle/oil/water suspensions due to capillary bridges: Experimental yield stress and theoretical interpretation, *Advances in Colloid and Interface Science* 251 (2018) 80–96. (брой: 32)**
1. Hauf K., E. Koos, Structure of capillary suspensions and their versatile applications in creation of smart materials, *MRS Communications* (2018).
  2. Hwang S.-H., J. Lee, D.-Y. Khang, Droplet-mediated deterministic microtransfer printing: Water as a temporary Adhesive, 11 (2019) 8645–8653.
  3. Nguyen H.N.G., O. Millet, G. Gagneux, Liquid bridges between a sphere and a plane - Classification of meniscus profiles for unknown capillary pressure, *Mathematics and Mechanics of Solids* 24 (2019) 3042–3060.
  4. Behrens S.H., Oil-coated bubbles in particle suspensions, capillary foams, and related opportunities in colloidal multiphase systems, *Current Opinion in Colloid and Interface Science* 50 (2020) 101384.
  5. Hupricar S., S. Usgaonkar, A.K. Lele, A.V. Orpe, Microstructure and yielding of capillary force induced gel, *Rheologica Acta* 59 (2020) 291–306.
  6. Okesanjo O., M. Tennenbaum, A. Fernandez-Nieves, J.C. Meredith, S.H. Behrens, Rheology of capillary foams, *Soft Matter* 16 (2020) 6725–6732.
  7. Xiong H., D. Devegowda, L. Huang, Oil–water transport in clay-hosted nanopores: Effects of long-range electrostatic forces, *AIChE Journal* 66 (2020) e16276.
  8. Xiong H., D. Devegowda, L. Huang, Water bridges in clay nanopores: Mechanisms of formation and impact on hydrocarbon transport, *Langmuir* 36 (2020) 723–733.
  9. Blackburn S., M. Szymiczek, Extrusion, *Encyclopedia of Materials: Technical Ceramics and Glasses*, Vol. 1-3 (2021) 162–178.
  10. Bolouri-Bazaz M.T., J. Bolouri-Bazaz, Effect of hydrocarbon contamination on biostabilization of soil contaminated with motor oil and gasoline, *Geomicrobiology Journal* 38 (2021) 467–481.
  11. Fisher S.B., E. Koos, Capillary bridge formation at room temperature in binary liquids with small miscibility, *Colloid and Interface Science Communications* 41 (2021) 100373.
  12. Okesanjo O., J.C. Meredith, S.H. Behrens, Structure-property relationship in capillary foams, *Langmuir* 37 (2021) 10510–10520.
  13. Xiong H., Behavior of fluids in clay-hosted nanopores: Insights from molecular dynamics, PhD Thesis, University of Oklahoma, USA, 2021.
  14. Allard J., S. Burgers, M.C. Rodriguez Gonzalez, Y. Zhu, S. De Feyter, E. Koos, Effects of particle roughness on the rheology and structure of capillary suspensions, *Colloids and Surfaces A* 648 (2022) 129224.
  15. Binden S., J. Allard, E. Koos, The behavior of capillary suspensions at diverse length scales: From single capillary bridges to bulk. *Current Opinion in Colloid and Interface Science* 58 (2022) 101557.
  16. Hu B., Y. Lan, Effects of base oil on the properties of water-induced multi-component oleogels, *Modern Food Science and Technology* 38 (2022) 67–73.
  17. Ishigami T., T. Karasudani, S. Onitake, M. Shirzadi, T. Fukasawa, K. Fukui, Y. Mino, Effect of liquid volume fraction and shear rate on rheological properties and microstructure formation in ternary particle/oil/water dispersion systems under shear flow: two-dimensional direct numerical simulation, *Soft Matter* 18 (2022) 4338–4350.
  18. Kazama R., Y. Murakami, A. Shono, Microstructure and rheological behavior of capillary suspension prepared with plate-shaped particles, *Colloids and Surfaces A* 237 (2022) 128254.
  19. Kim J., J. Lee, Liquid-suspended and liquid-bridged liquid metal microdroplets, *Small* 18 (2022) 2108069.
  20. Nguyen H.N.G., O. Millet, C.-F. Zhao, C. Cagneux, Theoretical and experimental study of capillary bridges between two parallel planes, *European Journal of Environmental and Civil Engineering* 26 (2022) 1198–1208.
  21. Ouyang Y., S. Chen, K. Sagoe-Crentsil, W. Duan, Capillary bridges between unsaturated nano-mineral particles: a molecular dynamics study, *Physical Chemistry Chemical Physics* 24 (2022) 8398–8407.
  22. Walls W.K., Size control in palletization, PhD thesis, Department of Engineering, Swansea University, 2022.
  23. Wang G.-S., H.-Y. Chen, L.-J. Wang, Y. Zou, Z.-L. Wan, X.-Q. Yang, Formation of protein oleogels via capillary attraction of engineered protein particles, *Food Hydrocolloids* 133 (2022) 107912.
  24. Zhang X., G. Zhang, X. Guo, T. Geng, B. Li, Z. Feng, D. Sun, Effect of water on BaSO<sub>4</sub> particles/GTL suspensions, *Drilling Fluids and Completion Fluids* 39 (2022) 1–7.
  25. Fuhrmann P.L., J. Powell, D. Rousseau, Structure and rheology of oil-continuous capillary suspensions containing water-swellable cellulose beads and fibres, *Food Hydrocolloids* 139 (2023) 108503.
  26. Politiek R.G.A., S. He, P.F.C. Wilms, J.K. Keppler, M.E. Bruins, M.A.I. Schutyser, Effect of relative humidity on milling and air classification explained by particle dispersion and flowability, *Journal of Food Engineering* 358 (2023) 111663.
  27. Zhao S., G. Shan, X. Yang, K. Ma, W. Li, J. Zhang, Study of liquid-liquid extraction and mass transfer process with solid particles in the inline teathed high shear mixer, *Separation and Purification Technology* 314 (2023) 123559.



28. Miao W., Y. Fe, Z. Zhang, Q. Lin, X. Li, S. Sang, D.J. McClements, H. Jiang, H. Ji, C. Qiu, Z. Jin, Fabrication of starch-based oleogels using capillary bridges: Potential for application as edible inks in 3D food printing, *Food Hydrocolloids* 150 (2024) 109647.
  29. Wang G.-S., Q. Li, G.-X. Feng, C.-W. Han, J. Guo, J.-M. Wang, Z.-L. Wan, X.-Q. Yang, Linear and nonlinear rheological characterization of capillary protein oleogels as potential fat replacers: Comparison with high internal-phase emulsions, *Food Hydrocolloids* 151 (2024) 109824.
  30. Liang Y., J. Wang, D. Pan, Rheological properties and micro-mesoscopic mechanisms of complex particle suspensions: A review, *Chinese Science Bulletin* 69 (2024) 1192–1210.
  31. Li Q., D. Sun, F. Chen, H. Xu, Z. Xu, New insights into interaction between oil and solid during hydrothermal treatment of oily sludge, *Journal of Hazardous Materials* 471 (2024) 134358.
  32. Liu W., K. He, D.J. McClements, Z. Jin, Pea starch-based oleogels based on capillary water crosslinking: Physicochemical properties and 3D printing performance, *Food Hydrocolloids* 154 (2024) 110161.
- 190 M.T. Georgiev, K.D. Danov, P.A. Kralchevsky, T.D. Gurkov, D.P. Krusteva, L.N. Arnaudov, S.D. Stoyanov, E.G. Pelan, Rheology of particle/water/oil three-phase dispersions: Electrostatics vs. capillary bridge forces, *Journal of Colloid and Interface Science* 513 (2018) 515–526. (брой: 11)**
1. Banach M., L. Konieczny, I. Roterman, The influence of protein surface on the ordering of surrounded water, in: *Superhydrophobic Surfaces – Fabrications to Practical Applications*, IntechOpen (2018).
  2. Sun X., M. Sakai, A liquid bridge model for spherical particles applicable to assymetric configurations, *Chemical Engineering Science* 182 (2018) 28–43.
  3. Baumgartner D., R. Bernard, B. Weigand, G. Lamanna, G. Brenn, C. Planchette, Influence of liquid miscibility and wettability on the structures produced by drop-jet collisions, *Journal of Fluid Mechanics* 885 (2019) A23.
  4. Hupricar S., S. Usgaonkar, A.K. Lele, A.V. Orpe, Microstructure and yielding of capillary force induced gel, *Rheologica Acta* 59 (2020) 291–306.
  5. Yang J., H.-S. Park, J. Kim, J. Mok, T. Kim, E.-K. Shin, C. Kwak, S. Lim, C.B. Kim, J.-S. Park, H.B. Na, D. Choi, Yield stress enhancement of a ternary colloidal suspension via the addition of minute amounts of sodium alginate to the interparticle capillary bridges, *Langmuir* 36 (2020) 9424–9435.
  6. Binden S., J. Allard, E. Koos, The behavior of capillary suspensions at diverse length scales: From single capillary bridges to bulk. *Current Opinion in Colloid and Interface Science* 58 (2022) 101557.
  7. Hu B., Y. Lan, Effects of base oil on the properties of water-induced multi-component oleogels, *Modern Food Science and Technology* 38 (2022) 67–73.
  8. Yang J., J. Kim, J. Lee, Effects of water-soluble polymers dissolved in an aqueous secondary fluid on the rheological properties of “capillary” suspensions, *Korea Australia Rheology Journal* 34 (2022) 159–166.
  9. Fuhrmann P.L., J. Powell, D. Rousseau, Structure and rheology of oil-continuous capillary suspensions containing water-swellaable cellulose beads and fibres, *Food Hydrocolloids* 139 (2023) 108503.
  10. Gao Z., C. Zhang, Y. Li, Y. Wu, Q. Deng, X. Ni, Edible oleogels fabricated by dispersing cellulose particles in oil phase: Effect from the water addition, *Food Hydrocolloids* 134 (2023) 108040.
  11. Lin Y., P. Lin, Y. Wang, J. Chen, Z. He, T. Pahtz, N. Phan-Thien, Shear thinning of non-Brownian suspensions and its variation at different ambient conditions, *Physics Fluids* 35 (2023) 023301.
- 188 V.I. Ivanova, R.D. Stanimirova, K.D. Danov, P.A. Kralchevsky, J.T. Petkov, Sulfonated methyl esters, linear alkylbenzene sulfonates and their mixed solutions: Micellization and effects of  $\text{Ca}^{2+}$  ions, *Colloids and Surfaces A* 519 (2017) 87–97. (брой: 15)**
1. Alli Y.F., L. Briolety, H. Eni, Y. Irewan, Co-surfactant polyethylene glycol mono-oleate in the formulation of natural based-surfactant for chemical EOR, *Scientific Contributions Oil & Gas* 40(1) (2017) 1–8.
  2. Abe Y., H. Watanabe, M. Fujiwara, Micellar effects on the hydrolysis reaction of an anionic surfactant in aqueous solution, *Langmuir* 34(46) (2018) 13979–13992.
  3. Thielle M.J., M.D. Davari, I. Hofmann, M. Konig, C.G. Lopez, L. Vojcic, W. Richtering, U. Schwaneberg, L.A. Tsarkova, Enzyme-compatible dynamic nanoreactors from electrostatically bridged like-charged surfactants and polyelectrolytes, *Angewandte Chemie - International Edition* 57(30) (2018) 9402–9407.
  4. Vinarov Z., V. Katev, N. Burdzhiev, S. Tcolakova, N. Denkov, Effect of surfactant-bile interactions on the solubility of hydrophobic drugs in biorelevant dissolution media, *Molecular Pharmaceutics* 15(12) (2018) 5741–5753.
  5. Lim Y.S., N.B. Baharudin, Y.W. Ung, Methyl ester sulfonate: A high performance surfactant capable of reducing builders dosage in detergents, *Journal of Surfactants and Detergents* 22 (2019) 549–558.
  6. Sarveen M., S. Parthiban, S. Nur Anisah, S. Surej Kumar, A. Babar, Exploring the potential application of palm methyl ester sulfonate as an interfacial tension reducing surfactant for chemical enhanced oil recovery, *Engineering Materials* 797 (2019) 402–410.
  7. Avsar A., S. Serin, K.A. Dali, The synthesis of surface active matter from soapstock and examination of properties, *FMBD* (2020) 29–39.

8. Ivanova A., F. Mustan, s. Tcholakova, N. Dankov, Revealing the origin of the specificity of calcium and sodium cations binding to adsorption monolayers of two anionic surfactants, *Journal of Physical Chemistry B* 124 (2020) 10514–10528.
  9. Wang X., X. Liu, Y. Huo, J. Niu, Properties of binary mixture of cetyl diphenyl ether disulfonate and linear alkylbenzene sulfonate, *Tenside, Surfactants, Detergents* 57 (2020) 259–264.
  10. Atta D.Y., B.M. Negash, N. Yekeen, A.D. Habte, A state-of-the-art review on the application of natural surfactants in enhanced oil recovery, *Journal of Molecular Liquids* 321 (2021) 114888.
  11. Mehrjoo H., M. Riazi, S. Norouzi-Apourvari, A comprehensive review on the use of eco-friendly surfactants in oil industry, *Chemical Methods* (2021) 357–399.
  12. Martinez A.E., L.M. Magallanes, L.V. Tarditto, M.C. Pramparo, M.F. Gayol, Fatty acids methyl esters from soybean oil for biobased surfactants industry: Obtention C16 / C18 concentrate for use as feedstock, *Industrial Crops and Products* 190 (2022) 115892.
  13. Nikonova A.A., A.G. Proidakov, A.V. Rokhin, A.N. Grindyavskaya, S.D. Dylgerova, E.F. Rokhina, I.V. Khanaev, Efficient and green esterification approach for determining of sodium alkylbenzene sulfonates in dry extracts, *Talanta Open* 8 (2023) 100238.
  14. Habib S.H., R. Yunus, R. Zakaria, D.R.A. Biak, B.H.M. Jan, Z. Amir, Chemical enhanced oil recovery: Synergetic mechanism of alkali, surfactant and polymer with overview of methyl ester sulfonate as a green alternative for EOR surfactant, *Fuel* 363 (2024) 130957.
  15. Hama S.M., A.K. Manshad, J.A. Ali, Review of the Application of Natural Surfactants in Enhanced Oil Recovery: State-of-the-Art and Perspectives, *Energy and Fuels* 37 (2023) 10061–10086.
- 187 L.M. Dimitrova, M.P. Boneva, K.D. Danov, P.A. Kralchevsky, E.S. Basheva, K.G. Marinova, J.T. Petkov, S.D. Stoyanov, Limited coalescence and Ostwald ripening in emulsions stabilized by hydrophobin HFBII and milk proteins, *Colloids and Surfaces A* 509 (2016) 521–538. (брой: 15)**
1. Shehzad F., I.A. Hussein, M.S. Kamal, W. Ahmad, A.S. Sultan, M.S. Nasser, Polymeric surfactants and emerging alternatives used in demulsification of produced water: A review, *Polymer Reviews* 58(1) (2018) 63–101.
  2. Ferreira E.A.C., N.F. Andrade Neto, M.R.D. Bomio, F.V. Motta, Influence of solution pH on forming silver molybdates obtained by sonochemical method and its application for methylene blue degradation, *Ceramics International* 45 (2019) 11448–11456.
  3. Oliveira C.M., F.H. Javier-Jr., A.R.D.V. Morais, I.L.Lima. R.A. Silva, A.E.G. Nascimento, N.K. Araujo, M.C.D.B.L. Nogueira, A.A. Silva-Jr., M.D.F.F. Pedrosa, E.S.T. Egito, Hydrophobin-stabilized nanoemulsion produced by a low-energy emulsification process: A promising carrier for nutraceuticals, *Food Hydrocolloids* 89 (2019) 748–757.
  4. Sarker D.K., Architectures and mechanical properties of drugs and complexes of surface0active compounds at air-water and oil-water interfaces, *Current Drug Discovery Technologies* 16(1) (2019) 11–29.
  5. Banta R.A., T.W. Collins, R. Curley, J. O'Connell, P.W. Young, J.D. Holmes, E.J. Flynn, Regulated phase separation in nanopatterned protein-polysaccharide thin films by spin coating, *Colloids and Surfaces B* 190 (2020) 110967.
  6. Cheng Y., B. Wang, Y. Wang, H. Zhang, C. Liu, L. Yang, Z.Chen, Y. Wang, H. Yang, Z. Wang, Soluble hydrophobin mutants produced in *Escherichia coli* can self-assemble at various interfaces. *Journal of Colloid and Interface Science* 573 (2020) 384–395.
  7. Park J., J. Lee, D.J. McClements, S.J. Choi, Inhibition of droplet growth in model beverage emulsions stabilized using poly (ethylene glycol) alkyl ether surfactants having various hydrophilic head sizes: Impact of ester gum, *Applied Science* 10 (2020) 5588.
  8. Dokouhaki M., A. Hung, S. Kasapis, S.L. Gras, Hydrophobins and chaplins: Novel bio-surfactants for food dispersions a review, *Trends in Food Science and Technology* 111 (2021) 378–387.
  9. Koroleva M.Yu., E.V. Yurtov, Ostwald ripening in macro- and nanoemulsions, *Russian Chemical Reviews* 90 (2021) 293–323.
  10. Alamprese C., M. Rollini, A. Musatti, P. Ferranti, A. Barbiroli, Emulsifying and foaming properties of a hydrophobin-based food ingredient from *Trichoderma reesei*: A phenomenological comparative study, *LWT* 157 (2022) 113060.
  11. Cui G., Q. Zhang, Q. Zhao, Z. Wang, T. Tang, X. He, S. Cui, X. Li, Y. Liu, Synthesis of branched chitosan derivatives for demulsification and steel anti-corrosion performances investigation, *Colloids and Surfaces A* 653 (2022) 130038.
  12. Huang H., J. Yi, Y. Fan, Influence of peroxy radical-induced oxidation on structural characteristics, emulsifying, and foaming properties of  $\alpha$ -lactalbumin, *LWT* 163 (2022) 113590.
  13. Lu J., O.G. Jones, W. Yan, C.M. Corvalan, Microbubbles in Food Technology, *Annual Review of Food Science and Technology*, 14 (2023) 495–515.

14. Vereman J., T. Thysens, F. Weiland, J.V. Impe, G. Derdelinckx, J.V. de Voorde, Liquid storage stability of the class II hydrophobin HFBI: Effect of pH on functional properties, *Process Biochemistry* 130 (2023) 455–463.
  15. Xie Y., J. Wang, Y. Sun, J. Yao, T. Li, X. Zhang, Y. Wang, J. Huang, B. Xia, S. Wang, W. Dong, Pea protein isolate-zein complex particles prepared by hydrophobic interactions and their application in stable Pickering emulsions, *Colloids and Surfaces A* 686 (2024) 133384.
- 186 P.K. Kralchevsky, K.D. Danov, P.V. Petkov, Soft electrostatic repulsion in particle monolayers at liquid interfaces: surface pressure and effect of aggregation, *Phil. Trans. Royal Soc. A* 374 (2016) 20150130P. (брой: 32)**
1. Brooks N.J., M.E. Cates, P.S. Clegg, A. Lips, W.C.K. Poon, J.M. Seddon, soft interfacial materials: From fundamentals to formulation, *Phil. Trans. Royal Soc. A* 372(2072) (2016) 20150135.
  2. Isa L., I. Buttinoni, M.A. Fernandez-Rodriguez, S.A. Vasudevan, Two-dimensional assemblies of soft repulsive colloids confined at fluid interfaces, *EPL* 119 (2017) 26001.
  3. Lotito V., T. Zambeli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
  4. Luo A.M., Rheology and thermodynamics of particle-stabilized fluid interfaces, PhD Thesis, Eth Zurich, 2017.
  5. Sigel R., Concepts for soft interfaces, *Soft Matter* 13(10) (2017) 1940–1942.
  6. Dietrich K., G. Volpe, M.N. Sulaiman, D. Rengli, I. Buttinoni, L. Isa, Active atoms and interstitials in two-dimensional colloid crystals, *Physical Review Letters* 120(26) (2018) 268004.
  7. El-Tawargy A.S., D. Stock, M. Gallei, W.A. Ramadan, M.A. Shams El-Din, G. Reiter, R. Reiter, Multiple structural transitions in Langmuir monolayers of charged soft-shell nanoparticles, *Langmuir* 34(13) (2018) 3909–3917.
  8. Laal-Dehghani N., R. Khare, G.F. Christopher, 2D stokesian approach to modeling flow induced deformation of particle laden interfaces, *Langmuir* 34(3) (2018) 904–916.
  9. Majee A., T. Schmetzer, M. Bier, Electrostatic interaction between dissimilar colloids at fluid interfaces, *Physical Review E* 97(4) (2018) 042611.
  10. Yang X., A. Mayer, G. Bournival, R. Pugh, S. Ata, Experimental technique to study the interaction between a bubble and particle-laden interface, *Frontiers in Chemistry* 6 (2018) 348.
  11. Chae I., D. Ngo, M. Makarem, Z. Ounaies, S.H. Kim, Compression-induced topographic corrugation of air/surfactant/water interface: Effect of nanoparticles adsorbed beneath the interface, *Journal of Physical Chemistry C* 123 (2019) 25628–25634.
  12. Laal-Dehghani N., G.F. Christopher, 2D stokesian simulation of particle aggregation at quiescent air/oil-water interfaces, *Journal of Colloid and Interface Science* 553 (2019) 259–268.
  13. Bebon R., A. Majee, Electrostatic pair-interaction of nearby metal or metal-coated colloids at fluid interfaces, *Journal of Chemical Physics* 153 (2020) 044903.
  14. Cuetos A., N. Morillo, B. Martinez-Haya, Coadsorption of counterionic colloids at fluid interfaces: A coarse-grained simulation study of Gibbs monolayers. *Langmuir* 36 (2020) 2877–2885.
  15. Dallas P., Generation of Polymers and Nanomaterials at Liquid-Liquid Interfaces: Application to Crystalline, Light Emitting, and Energy Materials, Second Edition, (2020) 1–214.
  16. Dietrich K., Artificial microswimmers at liquid-liquid interfaces, PhD Thesis, ETH, Zurich, 2020.
  17. Muntz I., F. Waggett, M. Hunter, A.B. Schofield, P. Bartlett, D. Marenduzzo, J.H.J. Thijssen, Interaction between nearly hard colloidal spheres at an oil-water interface, *Physical Review Research* 2 (2020) 023388.
  18. Pradipto, H. Hayakawa, Simulation of dense non-Brownian suspensions with the lattice Boltzmann method: Shear jammed and fragile states, *Soft Matter* 16 (2020) 945–959.
  19. Kanno K., G. Sase, C.E. McNamee, Use of mixed Langmuir films of nanoparticles to form metal oxide materials with the optimal surface charge, *Langmuir* 37 (2021) 7643–7654.
  20. Ling X., A. Mayer, G. Bournival, S. Ata, Motion of particles in a monolayer induced by coalescing of a bubble with a planar air-water interface, *Langmuir* 37 (2021) 3648–3661.
  21. Calhoun S.G.K., V. Chandran Suji, G.G. Fuller, Foaming and antifoaming in non-aqueous liquids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101558.
  22. Dani A., Y. Mohsen, C. Maldareli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
  23. Laal-Dehghani N., G.F. Christopher, Effects of interfacial shear on particle aggregation at an oil/water interface, *Langmuir* 38 (2022) 9621–9630.
  24. Lobel B., M.J. Hobson, P.M. Ireland, G.B. Webber, C.A. Thomas, H. Ogino, S. Fujii, E.J. Wanless, Interparticle repulsion of microparticles delivered to a pendent drop by an electric field, *Langmuir* 38 (2022) 670–679.

25. Nandy M., B.B. Lahiri, J. Philip, Inter-droplet force between magnetically polarizable Pickering oil-in-water nanoemulsions stabilized with  $\gamma$ - $\text{Al}_2\text{O}_3$  nanoparticles: Role of electrostatic and electric dipolar interactions, *Journal of Colloid and Interface Science* 607 (2022) 1671–1686.
  26. Abdal-hay A., M. Bartnikowski, F. Blaudez, C. Vaquette, D.W. Hutmacher, S. Ivanovski, Unique uniformity of calcium phosphate nanoparticle distribution in polymer substrates for additive manufacturing, *Composites A* 173 (2023) 107670.
  27. Abdal-hay A., S.S. Ramachandra, A.O. Alali, P. Han, F.A. Sheikh, M. Hashem, S. Ivanovski, Vertically aligned calcium phosphate nanoplates coated onto melt electrowritten 3D poly( $\epsilon$ -caprolactone) fibrous scaffolds for inhibiting biofilm formation, *Journal of Alloys and Compounds* 966 (2023) 171565.
  28. McNamee C.E., K. Kanno, Use of Silica Nanoparticle Langmuir Films to Determine the Effect of Surface Roughness on the Change in the Forces between Two Silica Surfaces by a Liquid Flow, *Langmuir* 39 (2023) 3450–3461.
  29. Thakur S., S. Razavi, Particle Size and Rheology of Silica Particle Networks at the Air–Water Interface, *Nanomaterials* 13 (2023) 2114.
  30. Van Baalen C., J. Vialetto, L. Isa, Tuning electrostatic interactions of colloidal particles at oil-water interfaces with organic salts, *Physical Review Letters* 131 (2023) 128202.
  31. Филиппов А.В., Електростатическое взаимодействие двухслойных микрочастиц, *ЖЕТФ* 164 (2023) 37–55.
  32. Rogier F., W. Shao, Y. Guo, L. Zhuang, W.K. Kegel, J. Groenewald, Deformation of confined liquid interfaces by inhomogeneous electric fields and localized particle forces, *Journal of Colloid and Interface Science* 657 (2024) 830–840.
- 185 K.D. Danov, E.S. Basheva, P.K. Kralchevsky, Effect of ionic correlations on the surface forces in thin liquid films: Influence of multivalent coions and extended theory, *Materials* 9 (2016) 145. (брой: 10)**
1. Guerrero-Garcia G.I., E. Gonzalez-Tovar, M. Quesada-Perez, A. Martin-Molina, The non-dominance of counterions in charge-asymmetric electrolytes: Non-monotonic precedence of electrostatic screening and local inversion of the electric field by multivalent coions, *PCCP* 18(31) (2016) 21852–21864.
  2. Uzelac B., V. Valmacco, G. Trefalt, Interactions between silica particles in the presence of multivalent coions, *Soft Matter* 13(34) (2017) 5741–5748.
  3. Rezvani M., T. Proske, C.-A. Graubner, Modeling the drying shrinkage of concrete made with limestone-rich cement, *Cement and Concrete Research* 115 (2019) 160–175.
  4. Bhagavathi Kandy S., I. Mehdi pour, N. Neithalath, M. Bauchi, E. Garboszy, S. Srivastava, T. Gaedt, G. Sant, Temperature-induced aggregation in portlandite suspensions, *Langmuir* 36 (2020) 10811–10821.
  5. Dziadkowiec J., A. Royne, Nanoscale forces between basal mica surfaces in dicarboxylic acid solutions: Implications for clay aggregation in the presence of soluble organic acids, *Langmuir* 36 (2020) 14978–14990.
  6. Peng M., A.V. Nguyen, Adsorption of ionic surfactants at the air/water interface: The gap between theory and experiment, *Advances in Colloid and Interface Science* 275 (2020) 102052.
  7. Peng M., T.T. Duignan, A.V. Nguyen, Significant effect of surfactant adsorption layer thickness in equilibrium foam films, *Journal of Physical Chemistry B* 124 (2020) 5301–5310.
  8. Ludwig M., Surface forces across colloidal dispersions, PhD Thesis, Darmstadt Technical University, Germany, 2021.
  9. Peng M., T.T. Duignan, C.V. Nguyen, A.V. Nguyen, From surface tension to molecular distribution: Modeling surfactant adsorption at the air-water interface, *Langmuir* 37 (2021) 2237–2255.
  10. Arumughan V., H.D. Ozeren, M. Hedenqvist, M. Skepo, T. Nypelo, M. Hasani, A. Larsson, Anion-Specific Adsorption of Carboxymethyl Cellulose on Cellulose, *Langmuir* 39 (2023) 15014–15021.
- 184 K.D. Danov, S.N. Dimova, T.B. Ivanov, J.K. Novev, Shape analysis of a rotating axisymmetric drop in gravitational field: Comparison of numerical schemes for real-time data processing, *Colloids and Surfaces A* 489 (2016) 75–85. (брой: 6)**
1. Jakhar K., A. Chattopadhyay, A. Thakur, R. Raj, Spline based shape prediction and analysis of uniformly rotating sessile and pendant droplets, *Langmuir* 33(22) (2017) 5603–5612.
  2. Sun R., Investigation of multiphase manufacturing processes for polymeric micro-lenses and lens arrays, PhD Thesis, Washington State University, 2017.
  3. Sun R., M. Falahati, L. Li, Numerical and experimental study on multiphase printing of polymeric biconvex micro lenses, *Journal of Micromechanics and Microengineering* 28 (2018) 115005.
  4. Zhang Z., L. Wang, Solution of Young-Laplace equation with finite-volume method and overlapped grid, *International Journal of Computational Methods and Experimental Measurements* 6(1) (2018) 11–22.
  5. Kumar A., M.R. Gunjan, K. Jakhar, A. Thakur, R. Raj, Unified framework for mapping shape and stability of pendant drops including the effect of contact angle hysteresis, *Colloids Surfaces A* (2020) 124619.



6. Gorbacheva Y.N., V.K. Polevikov, A variational-difference method for numerical simulation of equilibrium capillary surfaces, *Informatics* 20 (2023) 56–68.
- 183 P.V. Petkov, K.D. Danov, P.A. Kralchevsky, Monolayers of charged particles in a Langmuir trough: Could particle aggregation increase the surface pressure? *Journal Colloid and Interface Science* 462 (2016) 223–234. (брой: 28)**
1. Asao H., M. Kawaguchi, Effects of salt concentration and spreading amounts on surface pressures of layers of latex particles grafted to polymer chains at interfaces between air and aqueous salt solutions, *Colloids and Surfaces A* 495 (2016) 208–213.
  2. Bahler P.T., M. Zanini, G. Morgese, E.M. Benetti, L. Isa, Immobilization of colloidal monolayers at fluid-fluid interfaces, *Gels* 2(3) (2016) 2030019.
  3. Gao P., Z. Yi, X. Xing, T. Ngai, F. Jin, Influence of an additive-free particle spreading method on interactions between charged colloidal particles at an oil/water interface, *Langmuir* 32(19) (2016) 4909–4916.
  4. Gu C., L. Botto, Direct calculation of anisotropic surface stresses during deformation of a particle-covered drop, *Soft Matter* 12 (2016) 705–716.
  5. Wang S., K. Zhao, Dielectric analysis for the spherical and rodlike micelle aggregates formed from a gemini surfactant: Driving forces of micellization and stability of micelles, *Langmuir* 32(30) (2016) 7530–7540.
  6. Zhang H., K. Yu, O.J. Cayre, D. Harbottle, Interfacial particle dynamics: One and two step yielding in colloidal glass, *Langmuir* 32(50) (2016) 13472–13481.
  7. Bykov A.G., G. Gochev, G. Loglio, R. Miller, A.K. Panda, B.A. Noskov, Dynamic surface properties of mixed monolayers of polystyrene micro- and nanoparticles with DPPC, *Colloids Surfaces A* 521 (2017) 239–246.
  8. Lotito V., T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
  9. Poulichet V., A. Huerre, V. Garbin, Shape oscillations of particle coated bubbles and directional particle extension, *Soft Matter* 13(1) (2017) 125–133.
  10. Tham C.Y., W.S. Chow, Poly(lactic acid) microparticles with controllable morphology by hydroxyapatite stabilized Pickering emulsions: Effect of pH, salt, and amphiphilic agents, *Colloids and Surfaces A* 533 (2017) 275–285.
  11. Vatanparast H., A. Javadi, A. Bahramian, Silica nanoparticles cationic surfactants interaction in water-oil system, *Colloids and Surfaces A* 521 (2017) 221–230.
  12. Vatanparast H., A. Samiee, A. Bahramian, A. Javadi, Surface behavior of hydrophilic silica nanoparticle-SDS surfactant solutions: I. Effect of nanoparticle concentration on foamability and foam stability, *Colloids and Surfaces A* 513 (2017) 430–441.
  13. El-Tawargy A.S., D. Stock, M. Gallei, W.A. Ramadan, M.A. Shams El-Din, G. Reiter, R. Reiter, Multiple structural transitions in Langmuir monolayers of charged soft-shell nanoparticles, *Langmuir* 34(13) (2018) 3909–3917.
  14. Karnieli A., T. Markovich, D. Andelman, Surface pressure of charged colloids at air/water interface, *Langmuir* 34(44) (2018) 13322–13332.
  15. Lotito V., T. Zambelli, Pattern formation in binary colloidal assemblies: Hidden symmetries in a kaleidoscope of structures, *Langmuir* 34 (2018) 7827–7843.
  16. Majee A., T. Schmetzer, M. Bier, Electrostatic interaction between dissimilar colloids at fluid interfaces, *Physical Review E* 97(4) (2018) 042611.
  17. Yang X., A. Mayer, G. Bournival, R. Pugh, S. Ata, Experimental technique to study the interaction between a bubble and particle-laden interface, *Frontiers in Chemistry* 6 (2018) 348.
  18. Chae I., D. Ngo, M. Makarem, Z. Ounaies, S.H. Kim, Compression-induced topographic corrugation of air/surfactant/water interface: Effect of nanoparticles adsorbed beneath the interface, *Journal of Physical Chemistry C* 123 (2019) 25628–25634.
  19. Pitois O., F. Rouyer, Rheology of particulate rafts, films, and foams, *Current Opinion in Colloid and Interface Science* 43 (2019) 125–137.
  20. Bebon R., A. Majee, Electrostatic pair-interaction of nearby metal or metal-coated colloids at fluid interfaces, *Journal of Chemical Physics* 153 (2020) 044903.
  21. Alzobaidi S., C. Da, P. Wu, X. Zhang, N.J. Rabat-Torki, J.M. Harris, C. Lu, D. Hu, K.P. Johnston, Tuning nanoparticle surface chemistry and interfacial properties for highly stable nitrogen-in-brine foams, *Langmuir* 37 (2021) 5408–5423.
  22. Da C., X. Zhang, S. Alzobaidi, D. Hu, P. Wu, K.P. Johnston, Tuning surface chemistry and ionic strength to control nanoparticle adsorption and elastic dilatational modulus at air-brine interface, *Langmuir* 37 (2021) 5795–5809.
  23. Kanno K., G. Sase, C.E. McNamee, Use of mixed Langmuir films of nanoparticles to form metal oxide materials with the optimal surface charge, *Langmuir* 27 (2021) 7643–7654.

24. Da C., X. Chen, J. Zhu, S. Alzobaidi, G. Garg, K.P. Johnston, Elastic gas/water interface for highly stable foams with modified anionic silica nanoparticles and a like-charged surfactant, *Journal of Colloid and Interface Science* 608 (2022) 1401–1413.
  25. Dani A., Y. Mohsen, C. Maldareli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
  26. Nandy M., B.B. Lahiri, J. Philip, Inter-droplet force between magnetically polarizable Pickering oil-in-water nanoemulsions stabilized with  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> nanoparticles: Role of electrostatic and electric dipolar interactions, *Journal of Colloid and Interface Science* 607 (2022) 1671–1686.
  27. McNamee C.E., K. Kanno, Use of Silica Nanoparticle Langmuir Films to Determine the Effect of Surface Roughness on the Change in the Forces between Two Silica Surfaces by a Liquid Flow, *Langmuir* 39 (2023) 3450–3461.
  28. Qiao Y. Z. Liu, X. Ma, N.C. Keim, X. Cheng, Heterogeneous Dynamics of Sheared Particle-Laden Fluid Interfaces with Janus Particle Doping, *Langmuir* 39 (2023) 12032–12040.
- 182 K.D. Danov, R.D. Stanimirova, P.A. Kralchevsky, E.S. Basheva, V.I. Ivanova, J.T. Petkov, Sulfonated methyl esters of fatty acids in aqueous solutions: Interfacial and micellar properties, *Journal Colloid and Interface Science* 457 (2015) 307–318. (брой: 22)**
1. Hu B.B., Y. Yuan, X.-P. Zhou, S.-M. Li, Synthesis and properties of a novel bolaamphiphile surfactant driven from proline, *Chinese Chemical Letters* 27(3) (2016) 447–450.
  2. Mirgorodskay A.B., L. Ya. Zakharova, E.I. Khairutdinova, S.S. Lukashenko, O.G. Sinyashin, Supramolecular systems based on gemini surfactants for enhancing solubility of spectral probes and drugs in aqueous solutions, *Colloids and Surfaces A* 510 (2016) 33–42.
  3. Alli Y.F., B.L. Usman, Alkoxy groups of sulfonated natural oil-based surfactant to reduce oil-water interfacial tension for chemical flooding, *Advanced Science Letters* 23(12) (2017) 11834–11837.
  4. Hu B., Y. Yuan, Y. Yan., X. Zhou, Y. Li, Q. Kan, S. Li, Preparation and evaluation of a novel anticancer drug delivery carrier for 5-Fluorouracil using synthetic bola-amphiphile based on lysine as polar heads, *Materials Science and Engineering C* 75 (2017) 637–645.
  5. Indrayanah S., Erwin, I.N. Marsih, Suprpto, I.K. Murwani, Methyl ester production via heterogeneous acid-catalyzed simultaneous transesterification and esterification reactions, *IOP Conference Series: Material Science and Engineering* 202(1) (2017) 012069.
  6. Xu K., L. Shi, Y. Zhang, J. Lou, Research progress on fatty acid methyl esters sulfonate's preparation and application, *Speciality Petrochemicals* 34 (2017) 73–78.
  7. Ju H., Y. Jiang, T. Geng, Y. Wang, A green and easy synthesis method of cationic surfactant ammonium benzenesulfonate and its surface properties and aggregation behaviors, *Journal of Molecular Liquids* 264 (2018) 306–313.
  8. Sun Y., L. Ding, J. Zhou, M.D. Serio, K. Zhu, Y. Zhang, H. Liang, H. Wu, J. Sun, Synthesis and properties of  $\alpha$ -sulfo carboxyl disodium salt, *Journal of Dispersion Science and Technology* 39 (2018) 1360–1366.
  9. Zhou J., Y., Sun, K. Zhu, M. Di Serio, Y. Zhang, J. Sun, H. Wu, L. Ding, H. Liang, Influence of sulfonic acid group on the performance of castor oil acid based methyl ester ethoxylate sulfonate, *Journal of Dispersion Science and Technology* 39 (2018) 1693–1698.
  10. Aggarwal R., S. Singh, V. Saini, G. Kaur, Synthesis, characterization, and evaluation of surface and thermal properties and cytotoxicity of 2-hydroxy-3-phenoxypropyl imidazolium bola-type gemini amphiphiles, *Journal of Surfactants and Detergents* 22 (2019) 33–46.
  11. Lim Y.S., N.B. Baharudin, Y.W. Ung, Methyl ester sulfonate: A high-performance surfactant capable of reducing builders dosage in detergents, *Journal of Surfactants and Detergents* 22 (2019) 549–558.
  12. Paraska O., T. Rak, D. Potar, N. Radek, Research on the effect of compositions of ecologically safe substances on the hygienic properties of textile products, *Eastern-European Journal of Enterprise Technologies* 1(10-97) (2019) 43–49.
  13. Cai Y., X. Chen, H. Xu, Synthesis and properties of amide gemini surfactants, *Tenside Surfactants Detergents* 57 (2020) 414–419.
  14. Leslie M., E. Kardena, Q. Helmy, Biosurfactant and chemical surfactant effectiveness test for oil spills treatment in a saline environment, *IOP Conference Series: Earth and Environmental Science* 896 (2021) 012041.
  15. Habib S.H., D. Kania, R. Yunus, B.H.M. Jan, D.R.A. Biak, R. Zakaria, Insight into hydrophobic interactions between methyl ester sulfonate (MES) and polyacrylamide in alkaline-surfactant-polymer (ASP) flooding. *Korean Journal of Chemical Engineering* 28 (2021) 2353–2364.
  16. Singh N., P.K.S. Yadav, S.K. Gupta, Synthesis and performance evaluation of green anionic polymeric surfactant for detergent application, *Asian Journal of Chemistry* 33 (2021) 333–337.

17. Singh N., S.K. Gupta, P.K.S. Yadav, RSM-based optimization approach in production of anionic methyl ester sulfonate for commercial detergent application, *Journal of the Institution of Engineers (India) E* 103 (2022) 283–291.
  18. Cao L., X. Chen, Y. Peng, The interaction of frothers with hydrophobic and hydrophilic sites of coal particles in NaCl solution, *Powder Technology* 396 (2022) 378–384.
  19. Fainerman V.B., V.I. Kovalchuk, E.V. Aksenenko, F. Ravera, L. Liggieri, G. Loglio, A.V. Makievski, N.O. Mishchuk, E. Schneck, R. Miller, A multistate adsorption model for the characterization of C<sub>13</sub>DMPO adsorption layers at the aqueous solution/air interface, *Langmuir* 38 (2022) 4913–4920.
  20. Lang J.Q., H.I. Mtui, H.-Z. Gang, B.-Z. Mu, S.-Z. Yang, Highly Ca<sup>2+</sup>-ion-tolerant biobased zwitterionic surfactant with high interfacial activity, *ACS Omega* 7 (2022) 32775–32783.
  21. Yi X., Y. Zheng, L. Lai, J. Mu, X. Zheng, X. Lu, Synthesis and micellization behavior of succinic acid isoester sulfonates in aqueous solutions, *Colloids and Surfaces A* 683 (2024) 133046.
  22. Habib S.H., R. Yunus, R. Zakaria, D.R.A. Biak, B.H.M. Jan, Z. Amir, Chemical enhanced oil recovery: Synergetic mechanism of alkali, surfactant and polymer with overview of methyl ester sulfonate as a green alternative for EOR surfactant, *Fuel* 363 (2024) 130957.
- 181 K.D. Danov, R.D. Stanimirova, P.A. Kralchevsky, K.G. Marinova, S.D. Stoyanov, T.B.J. Blijdenstein, A.R. Cox, E.G. Pelan, Adhesion of bubbles and drops to solid surfaces, and anisotropic surface tension studied by capillary meniscus dynamometry, *Advances in Colloid and Interface Science* 233 (2016) 223–239. (брой: 17)**
1. George J.E., S. Chidangil, S.D. George, Recent progress in fabricating superaerophobic and superaerophilic surfaces, *Advanced Materials Interfaces* 4(9) (2017) 1601088.
  2. Gooneie A., C. Holzer, Reinforced local heterogeneities in interfacial tension distribution in polymer blends by incorporating carbon nanotubes, *Polymer* 125 (2017) 90–101.
  3. Zhang L., T. Man, M. Huang, J. Gao, X. Zuo, E. Wang, Numerical simulation of droplet behavior of Cu-Pb alloys solidifying under magnetic field, *Materials* 10(9) (2017) 1005.
  4. Hahl H., J.N. Vargas, M. Jung, A. Griffo, P. Laaksonen, M. Lienemann, K. Jacobs, R. Seemann, J.-N. Fleury, Adhesion properties of freestanding hydrophobic bilayers, *Langmuir* 34 (2018) 8542–8549.
  5. Shen Y., J. Tao, Z. Chen, C. Zhu, G. Wang, H. Chen, S. Liu, Rational design of the nanostructure features on superhydrophobic surfaces for enhanced dynamic water repellency, *ACS Sustainable Chemistry and Engineering* 6(8) (2018) 9958–9965.
  6. Yunusa M., G.J. Amador, D.-M. Drotlef, M. Sitti, Wrinkling instability and adhesion of a highly bendable gallium oxide nanofilm encapsulating a liquid-gallium droplet, *Nano Letters* 18(4) (2018) 2498–2504.
  7. Basarova P., J. Zawala, M. Zednikova, Interactions between a small bubble and a greater solid particle during the flotation process, *Mineral Processing and Extractive Metallurgy Review* 40 (2019) 410–426.
  8. Ketola A.E., W. Xiang, T. Hjelt, H. Pajari, T. Temmelin, O.J. Rojas, J.A. Ketoja, Bubble attachment to cellulose and silica surfaces of varied surface energies: Wetting transition and implications in foam forming, *Langmuir* 36 (2020) 7296–7308.
  9. Khoo M.T., J.A. Wenning, B.W. Pearce, P.A. Brandner, Statistical aspects of tip vortex cavitation inception and desinence in a nuclei depleted flow, *Experiments in Fluids* 61 (2020) 145.
  10. Mao N., C. Kang, S. Teng, C. Mulbach, Formation and detachment of the enclosing water film as a bubble passes through the water-oil interface, *Colloids and Surfaces A* 586 (2020) 124236.
  11. Ananthakeshava I., N.J. Srikanth, K. Nagendra Prasad, V. Vinu, Reduction of surface tension of water due to pranic healing, *Indian Journal of Science and Technology* 14 (2021) 2175–2179.
  12. Fickel B.A., Untersuchung des adaptiven Benetzungsverhalten von quellbaren Poly-N-isopropylacrylamid Bürsten auf planaren Oberfläche, PhD Thesis, Darmstadt Technical University, 2021.
  13. Khoo M., The influence of nuclei content on tip vortex cavitation inception, PhD Thesis, University of Tasmania, 2021.
  14. Liu G., W.S.Y. Wong, M. Kraft, J.W. Ager, Wetting-regulated gas-involving (photo)electrocatalysis: Biomimetics in energy conservation, *Chemical Society Reviews* 50 (2021) 10674–10699.
  15. Yunusa M., Interfacial mechanics and liquid crystal structure of liquid gallium, PhD Thesis, Stuttgart University, 2021.
  16. Kobo D., B.-E. Pinchasik, Backswimmer-inspired miniature 3D-printed robot with buoyancy autoregulation through controlled nucleation and release of microbubbles, *Advanced Intelligent Systems* (2022) 2200010.
  17. Zhang X., Q. Wang, Z. Liu, L. Zhi, B. Jiao, H. Hu, X. Ma, D. Agyei, A. Shi, Plant protein-based emulsifiers: Mechanisms, techniques for emulsification enhancement and applications, *Food Hydrocolloids* 144 (2023) 109008.

- 180 P.A. Kralchevsky, K.D. Danov, Chemical Physics of Colloidal Systems and Interfaces, in: K.S. Birdy (Ed.), Handbook of Surface and Colloid Chemistry, Fourth edition, 2015, Ch. 4. (брой: 12)**
1. Cruz N., Y. Peng, Rheology measurements for flotation slurries with high caly contents – A critical review, *Minerals Engineering* 98 (2016) 137–150.
  2. Karakashev S.I., Hydrodynamics of foams, *Experiments in Fluids* 58 (2017) 91.
  3. Jiang H., G. Beaucage, K. Vogtt, M. Weaver, The effect of solvent polarity on wormlike micelles using dipropylene glycol (DPG) as a cosolvent in an anionic/zwitterionic mixed surfactant system, *Journal of Colloid and Interface Science* 509 (2018) 25–31.
  4. Li Z., L. Dai, D. Wang, L. Mao, Y. Gao, Stabilization and rheology of concentrated emulsions using the natural emulsifiers quillaja saponins and rhamnolipids, *Journal of Agricultural and Food Chemistry* 66(15) (2018) 3922–3929.
  5. Bickel T., J.-C. Loudet, G. Koleski, B. Pouligny, Hydrodynamic response of a surfactant-laden interface to a radial flow, *Physical Review Fluids* 4(12) (2019) 124002.
  6. Bickel T., Spreading dynamics of reactive surfactant driven by Marangoni convection, *Soft Matter* 15(18) (2019) 3644–3648.
  7. Koleski G., Flower-like azimuthal instability of a divergent flow at the atwer-air interface, PhD Thesis, Bordeaux University, France, 2019.
  8. Wang L., C. Li, A brief review of pulp and froth rheology in mineral flotation, *Journal of Chemistry* (2020) ID: 3894542.
  9. Koleski G., J.-C. Loudet, A. Vilquin, B. Pouligny, Syrfactant-driven instability of a divergent flow, *Physical Review Fluids* 6 (2021) 094001.
  10. Bothe D., Sharp-interface continuum thermodynamics of multicomponent fluid systems with interfacial mass, *International Journal of Engineering Science* 179 (2022) 103731.
  11. Karakashev S.I., N.A. Grozev, S. Hristova, K. Mircheva, O. Ozdemir, Electrostatic forces in control of the foamability of nonioinic surfactant, *Coatings* 13 (2023) 37.
  12. Karakashev S.I., N.A. Grozev, K. Mircheva, S. Ata, G. Bournival, S. Hristova, O. Ozdemir, Surface Chemistry Tuning Solutions for Flotation of Fine Particles, *Minerals* 13 (2023) 957.
- 179 S.S. Tzocheva, K.D. Danov, P.A. Kralchevsky, G.S. Georgieva, A.J. Post, K.P. Ananthapadmanabhan, Solubility limits and phase diagrams for fatty alcohols in anionic (SLES) and zwitterionic (CAPB) micellar surfactant solutions, Journal of Colloid and Interface Science 449 (2015) 46–61. (брой: 17)**
1. Zhao Q., K. Zhang, G. Yu, W. Wu, X. Wei, Q. Lu, Facile electrochemical determination of tetrabromobisphenol A based on modified glassy carbon electrode, *Talanta* 151 (2016) 209–216.
  2. Li F.F., N.H. Chen, W.P. Zhang, Effect of binary/ternary fatty acids ratio on the phase behavior of soap solutions, *Journal of Surfactants and Detergents* 20(2) (2017) 425–434.
  3. Li F., X. Tang, M. Chen, W. Zhang, Effect of polyhydric alcohols, surfactants, emollients and emulsifiers on phase behaviors of ternary fatty acid soap solutions, *Journal of Surfactants and Detergents* 20 (2017) 1–13.
  4. Tajuddin H.A., T. Idris, N.F. Zul, A.B. Sadidarto, Z. Abdullah, N. Ahmad, Self-aggregation behavior of synthetic amphiphile derived from triazolulbenzoic acid: CMC and phase transition, *AIP Conference Proceeding* 1901 (2017) 080002.
  5. Efthimios K., Study of the influence of surfactants on the activity coefficients and mass transfer coefficients in binary aqueous mixtures by the reversed-flow gas chromatography technique, PhD Thesis, Patra Univeristy, 2018.
  6. Qi N., H. Sun, H. Zhao, Y. Li, Achieving foaming control smartly: Pre-solubilized flavor oil serves as an: In situ homogeneous defoamer, *Soft Matter* 14(11) (2018) 2059–2067.
  7. Lee S., J. Lee, H. Yu, J. Lim, Synthesis of environment friendly biosurfactants and characterization of interfacial properties for cosmetic and household products formulations, *Colloids and Surfaces A* 536 (2018) 224–233.
  8. Mitrinova Z., S. Tcholakova, N. Denkov, Control of surfactant solution rheology using medium-chain cosurfactants, *Colloids and Surfaces A* 537 (2018) 173–184.
  9. Saxena P., P.K. Sharma, P. Purohit, The mechanistic approach of the propylene glycol as a co-surfactant through “six member cyclic hydrogen bonding system”for the stable and flexible microemulsion drug carrier, *International Journal of Pharmacognosy* 6(5) (2019) 172–180.
  10. Xu L., S. Amin, Microrheological study of ternary surfactant-biosurfactant mixtures, *International Journal of Cosmetic Science* 41 (2019) 364–370.
  11. Davies A.R., S. Amin, Microstructure design of CTAC:FA and BTAC:FA lamellar gels for optimized rheological performance utilizing automated formulation platform, *International Journal of Cosmetic Science* 42 (2020) 2592–69.



12. Kelleppan V.T., J.P. King, C.S.G. Butler, A.P. Williams, K.L. Tuck, R.F. Tabor, Heads or tails? The synthesis, self-assembly, properties and uses of betaine and betaine-like surfactants. *Advances in Colloid and Interface Science* 297 (2021) 102528.
  13. Pandya N., G. Rajput, D.S. Janni, G. Subramanyan, D. Ray, V. Aswal, D. Varade, SLES/CMEA mixed surfactant system: Effect of electrolyte on interfacial behavior and microstructures in aqueous media, *Journal of Molecular Liquids* 325 (2021) 115096.
  14. Zhang C., Formulation of personal care products with biosurfactants, PhD Thesis, University of Manchester, 2021.
  15. Ouverney Ferreira M., H.F. Camara de Assis, A.M. Percedom, Cocamidopropyl betaine can behave as a cationic surfactant and electrostatically associate with polyacids of high molecular weight, *Colloids and Surfaces A* 654 (2022) 130123.
  16. Zhang H., L. Liang, H. Xi, D. Liu, Z. Li, X. Lin, Effects of fatty alcohols with different chain lengths on the performance of low pH biomass-based foams for radioactive decontamination, *Molecules* 27 (2022) 6627.
  17. Li N., H. Shen, S. Wu, A. Potanin, J. Lee, Mild surfactant systems containing rhamnolipids for personal cleansers—Building the viscosity and studying the performance, *Journal of Surfactants and Detergents* (2024).
- 178 K.D. Danov, P.A. Kralchevsky, G.M. Radulova, E.S. Basheva, S.D. Stoyanov, E.G. Pelan, Shear rheology of mixed protein adsorption layers vs their structure studied by surface force measurements, *Advances in Colloid and Interface Science* 222 (2015) 148–161. (брой: 21)**
1. Dan A., G. Gochev, R. Miller, Tensiometry and dilational rheology of mixed  $\beta$ -lactoglobulin/ionic surfactant adsorption layers at water/air and water/hexane interfaces, *Journal of Colloid and Interface Science* 449 (2015) 383–391.
  2. Todorov R., Thin liquid films in biomedical studies, *Current Opinion in Colloid and Interface Science* 20(2) (2015) 130–138.
  3. Wosten H.A., K. Sholtmeijer, Application of hydrophobins: current stage and perspectives, *Applied Microbiology and Biotechnology* 99(4) (2015) 1587–1597.
  4. Goralchuk A., S. Omel'chenko, O. Kotlyar, O. Grinchenko, V. Mikhaylov, Developing a model of the foam emulsion system and confirming the role of the yield stress shear of interfacial adsorption layers to provide its formation and stability, *Eastern-European Journal of Enterprise Technology* 3/11(81) (2016) 11–19.
  5. Jin K., Z. Qiao, S. Wang, S. Zhu, J. Cheng, J. Yang, W. Liu, The effects of the main components of seawater on the tribological properties of Cu-9Al-5Ni-4Fe-Mn alloy sliding against AISI 52100 steel, *RSC Advances* 6(8) (2016) 6384–6394.
  6. Celebioglu H.Y., J. Kmiecik-Palczewska, S. Lee, I.S. Chronakis, Interfacial shear rheology of  $\beta$ -lactoglobulin-bovine submaxillary mucin layers adsorbed at air/water interface, *International Journal of Biological Macromolecules* 102 (2017) 857–867.
  7. Hennig S., Utilization of yeast pheromones and hydrophobin-based surface engineering for novel whole-cell sensor applications, PhD Thesis, Dresden Technical University, 2017.
  8. Toppel J., Einsatzmöglichkeiten eines saponinreichen Extrakts aus *Quillaja saponaria* Molina zur Formulierung und Stabilisierung von funktionellen Lebensmittelinhaltsstoffen, PhD Thesis, Technical University, Berlin, 2017.
  9. Wu B., G. Liu, G. Zhang, V.S.G. Craig, Polyelectrolyte multilayers under compression: Concurrent osmotic stress and colloidal probe atomic force microscopy, *Soft Matter* 14(6) (2018) 961–968.
  10. Felix M., A. Romero, C. Carrera-Sanchez, A. Guerrero, A comprehensive approach from interfacial to bulk properties of legume protein-stabilized emulsions, *Fluids* 4(2) (2019) 65.
  11. Felix M., A. Romero, C. Carrera-Sanchez, A. Guerrero, Assessment of interfacial viscoelastic properties of Faba bean (*Vicia faba*) protein-adsorbed O/W layers as a function of pH, *Food Hydrocolloids* 90 (2019) 353–359.
  12. Felix M., Y. Jang, A. Guerrero, L.M.C. Sagis, Effect of cinnamaldehyde on interfacial rheological properties of proteins adsorbed at O/W interfaces, *Food Hydrocolloids* 97 (2019) 105235.
  13. Goralchuk A., O. Grinchenko, O. Riabets, O. Kotlyar, Food dispersion systems process stabilization. A review, *Ukrainian Food Journal* 8 (2019) 699–732.
  14. Goral I., K. Wojciechowski, Surface activity and foaming properties of saponin-rich plants extracts, *Advances in Colloid and Interface Science* 279 (2020) 102145.
  15. Zhang J., Y. Chen, Y. Huang, W. Wu, X. Deng, H. Liu, R. Li, J. Tao, X. Li, X. Liu, M. Gou, A 3D-printed self-adhesive bandage with drug release for peripheral nerve repair, *Advanced Science* (2020) 2002601.
  16. Leslie M., E. Kardena, Q. Helmy, Biosurfactant and chemical surfactant effectiveness test for oil spills treatment in a saline environment, *IOP Conference Series: Earth and Environmental Science* 896 (2021) 012041.
  17. Zhou B., J.T. Tobin, S. Drusch, S.A. Hogan, Interfacial properties of milk proteins: A review, *Advances in Colloid and Interface Science* 295 (2021) 102347.

18. Bock A., H. Kieserlink, S. Rohn, U. Steinhauser, S. Drusch, Impact of phenolic acid derivatives on  $\beta$ -lactoglobulin stabilized oil-water-interfaces, *Food Biophysics* 17 (2022) 508–522.
  19. Firouzi M., V.I. Kovalchuk, G. Loglio, R. Miller, Salt effect on the dilatational viscoelasticity of surfactant adsorption layers, *Current Opinion in Colloid and Interface Science* 57 (2022) 101538.
  20. Shi R., Y. Liu, Y. Ma, P. Zhao, Z. Jiang, J. Hou, Ph-dependent binding behavior of the  $\alpha$ -lactalbumin/glycyrrhizic acid complex in relation to their foaming characteristics in bulk, *Journal of Agricultural and Food Chemistry* 70 (2022) 3252–3262.
  21. Bhuvanesh T., Y. Nie, R. Machatschek, N. Ma, A. Lendlein, Laminin–Dynamic Bonds Enable Multifunctionality in a Biological 2D Network, *Advanced Functional Materials* 33 (2023) 2304268.
- 177 K.D. Danov, Asymptotic formulae for the interaction force and torque between two charged parallel cylinders, *Applied Mathematics and Computation* 256 (2015) 642–655. (брой: 1)**
1. Vinogradova E.M., N.V. Egorov, Effect of dielectrics on the field emission characteristics in the diode system modeling, *Resuts in Physocs* 30 (2021) 104822.
- 176 P.A. Kralchevsky, K.D. Danov, S.A. Anachkov, Depletion forces in thin liquid films due to nonionic and ionic micelles, *Current Opinion in Colloid and Interface Science* 20 (2015) 11–18. (брой: 32)**
1. Lim S., H. Hortuchi, A.D. Nikolov, D. Wasan, Nanofluidics after the surface wettability of solids, *Langmuir* 31(21) (2015) 5827–5835.
  2. Fallah F., M. Khorasani, M. Ebrahimi, Comparative study of gel emulsification and direct mechanical emulsification methods, *Colloids and Surfaces A* 492 (2016) 207–212.
  3. Zachariah Z., R.M. Espinoza-Marzal, N.D. Spencer, M.P. Heuberger, Stepwise collapse of overlapping electrical double layers, *PCCP* 10(35) (2016) 24417–24427.
  4. George J.E., S. Chidangil, S.D. George, Recent progress in fabricating superaerophobic and superaerophilic surfaces, *Advanced Materials Interfaces* 4(9) (2017) 1601088.
  5. Guner S., M.H. Oztog, Food grade liposome systems: Effect of solvent, homogenization types and storage conditions on oxidative and physical stability, *Colloids and Surfaces A* 513 (2017) 468–478.
  6. Lim S., Hard surface cleaning: A novel approach using wetting nanofluids, PhD Thesis, Illinois Institute of Technology, Chicago, 2017.
  7. Lotito V., T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
  8. Moazzami-Godarzi M., Surface forces in the presence of multivalent ions and polyelectrolytes, PhD Thesis, Geneva University, 2017.
  9. Zachariah Z., Molecular insight into nanoconfined electrical double layer, PhD Thesis, ETH Zurich, 2017.
  10. Perazzo A., G. Tomaiuolo, V. Preziosi, S. Guido, emulsions in porous media: From single droplet behavior to application to oil recovery, *Advances in Colloid and Interface Science* 256 (2018) 305–325.
  11. Schon S., R. von Klitzing, A simple extension of the commonly used fitting equation for oscillatory structural forces in case of silica nanoparticle suspensions, *Beilstein Journal of Nanotechnology* 9(1) (2018) 1095–1110.
  12. Schon S., R. von Klitzing, Experimental evaluation of additional short range repulsion in structural oscillation forces, *Soft Matter* 14(26) (2018) 5383–5392.
  13. Schon S., M. Richter, M. Witt, R. von Klitzing, Experimental triggered oscillatory structural forces, *Langmuir* 34(38) (2018) 11526–11533.
  14. Bernardino K., A. Farias De Moura, Electrostatic potential and counterion partition between flat and spherical interfaces, *Journal of Chemical Physics* 150(7) (2019) 074704.
  15. Chu D., X. Sun, Y. Hu, J.-A. Duan, Substrate-independent, switchable bubble wettability surfaces induced by ultrasonic treatment, *Soft Matter* 15(37) (2019) 7398–7403.
  16. Ginot G., R. Hohler, S. Mariot, A. Kraynik, W. Drenckhan, Juggling bubbles in square capillaries: An experimental proof of non-pairwise bubble interactions, *Soft Matter* 15(22) (2019) 4570–4582.
  17. Lele B.J., R.D. Tilton, Colloidal depletion and structural force synergism or antagonism in solutions of mutually repelling polyelectrolytes and ionic surfactants, *Langmuir* 35 (2019) 15937–15947.
  18. Lele B.J., R.D. Tilton, Control of the colloidal depletion force in nonionic polymer solutions by complexation with anionic surfactants, *Journal of Colloid and Interface Science* 553 (2019) 436–450.
  19. Erasov V., B. Pokidko, M.Y. Pletnev, Features of aqueous polymer-stabilized foams particularly containing bentonite particles, *Journal of Dispersion Science and Technology* 41 (2020) 787–796.
  20. Lele B.J., R.D. Tilton, Depletion forces induced by mixed micelles of nonionic block copolymers and anionic surfactants, *Langmuir* 36 (2020) 10772–10784.
  21. Ludwig M., R. von Klitzing, Recent progress in measurements of oscillatory forces and liquid properties under confinement, *Current Opinion in Colloid and Interface Science* 47 (2020) 137–152.

22. Shan G., S. Zhao, M. Qiao, N. Gao, J. Chen, Q. Ran, Synergism effects of coconut diethanol amide and ionic surfactants for entraining stable air bubbles into concrete, *Construction and Building Materials* 237 (2020) 117625.
  23. Schon S., Oscillatory structural forces, PhD Thesis, Technical University, Berlin, 2020.
  24. De Los Santos-Lopez N.M., G. Perez-Angel, J.M. Mendez-Alcaraz, R. Castaneda-Priego, Competing interaction in the depletion forces of ternary colloidal mixtures, *Journal of Chemical Physics* 155 (2021) 024901.
  25. Ludwig M., Surface forces across colloidal dispersions, PhD Thesis, Darmstadt Technical University, Germany, 2021.
  26. Qiao M., G. Shan, N. Gao, J. Chan, J. Wu, B. Zhu, Q. Ran, Research progress of concrete air controlled surfactants, *Materials Reports* 36 (2022) 20090232-7.
  27. Qiao M., G. Shan, J. Chen, N. Gao, Q. Ran, Nonionic surfactants as bubble stabilizers in concrete, *ACI Special Publications SP-354* (2022) 387–394.
  28. Koroglu L., E. Ayas, N. Ay, BNNS formation through surface modification of hBN nanopowders with a silane coupling agent, *Jornal of the Dispersion Science and Technology* 2023.
  29. Zhou M., A. Bandegi, R. Foudazi, Control of pore interconnectivity in emulsion-templated porous polymers, *Polymer* 281 (2023) 126085.
  30. Tang X.-C., Y.-Q. Li, Z.-Y. Liu, N. Zhang, Nanoparticle-reinforced foam system for enhanced oil recovery (EOR): Mechanistic review and perspective, *Petroleum Science* (2023).
  31. Miliani S., M. La Rocca, A. Montessori, P. Prestininzi, Assessing the Mobilization of Trapped Mass of Emulsions Flowing in an Idealized Pore Using the Lattice Boltzmann Method, *Transport in Porous Media* 149 (2023) 579–598.
  32. Liao J., S. Liu, N. Li, J. Huang, H. Fan, S. Fang, Contactless measurements of salt-enhanced nonionic micelle-induced depletion forces by optical tweezers, *Physics Fluids* 35 (2023) 123308.
- 175 K.D. Danov, R.D. Stanimirova, P.A. Kralchevsky, K.G. Marinova, N.A. Alexandrov, S.D. Stoyanov, T.B.J. Blijdenstein, E.G. Pelan, Capillary meniscus dynamometry – Method for determining the surface tension of drops and bubbles with isotropic and anisotropic surface stress distributions, *Journal of Colloid and Interface Science* 440 (2015) 168–178. (брой: 42)**
1. Borecki M., M.L. Korwin-Pawlowski, M. Duk, A. Kociubinski, J. Frydrych, P. Prus, J. Szmidt, Dynamical capillary rise photonic sensor for testing of diesel and biodiesel fuel, *Sensors & Transducers* 193(10) (2015) 11–22.
  2. Borecki M., J. Szmidt, M.L. Korwin-Pawlowski, M. Duk, A. Kociubinski, J. Frydrych, P. Prus, Capillary rise multiparametric sensor for testing a diesel and biodiesel fuel, *Sensor Devices* (2015) 37–43.
  3. Kazemzadeh Y., S. Ehsan Eshraghi, S. Sourani, M. Reyhani, An interface-analysing technique to evaluate the heavy oil swelling in presence of nickel oxide nanoparticles, *Journal of Molecular Liquids* 211 (2015) 553–559.
  4. Radoev B.P., P.V. Petkov, I.T. Ivanov, Capillary bridges – a tool for three-phase contact investigations, in: *Surface Energy*, M. Aliofkhazraei (Ed.), INTECH, Ch. 2, 2015.
  5. Balemans C., M.A. Hulsen, P.D. Anderson, Modeling of complex interfaces for pendant drop experiments, *Rheologica Acta* 55(10) (2016) 801–822.
  6. Gu C., L. Botto, Direct calculatoin of anysotropic surface stresses during deformation of a particle-covered drop, *Soft Matter* 12 (2016) 705–716.
  7. Hoyer P., V. Alvarado, M.S. Carvalho, Snap-offin constricted capillary with elastic interface, *Physics of Fluids* 28 (2016) 012104.
  8. Kotula A.P., S.I. Anna, Insoluble layer deposition and dilatational rheology at a microscale spherical cap interface, *Soft Matter* 12(33) (2016) 7038–7055.
  9. Gajewski A., A couple new ways of surface tension determination, *International Journal of Heat and Mass Transfer* 115 (2017) 909–917.
  10. Gooneie A., C. Holzer, Reinforced local heterogeneities in interfacial tension distribution in polymer blends by incorporating carbon nanotubes, *Polymer* 125 (2017) 90–101.
  11. Hoyer P., V. Alvarado, Stability of liquid bridges with elastic interfaces, *RSC Advances* 7 (2017) 49344–49352.
  12. Nagel M., T.A. Tervoorth, J. Vermant, From drop-shape analysis to stress-fitting elastometry, *Advances in Colloid and Interface Science* 247 (2017) 33–51.
  13. Papicelli M., Complex fluid-fluid interfaces: the interplay between interfacial tension and viscoelasticity, PhD Thesis, ETH Zurich, 2017.
  14. Papicelli M., T. Verwijlen, T.A. Tervoorth, J. Vermant, Characterization and modelling of Langmuir interfaces with finite elasticity, *Soft Matter* 13(35) (2017) 5977–5990.

15. Gu C., Development of a fast simulation method for particle-laden fluid interfaces and selected applications to problems involving drops, PhD Thesis, Queen Mary University, London, 2018.
16. Hegemann J., Deformation behavior of elastic shells and biological cells, PhD Thesis, Technical University, Dortmund, 2018.
17. Hegemann J., S. Knoche, S. Egger, M. Kott, S. Demand, A. Unverfehrt, H. Rehage, J. Kierfeld, Pendant capsule elastometry, *Journal of Colloid and Interface Science* 513 (2018) 549–565.
18. Jaensson N., J. Vermant, Tensiometry and rheology of complex interfaces, *Current Opinion in Colloid and Interface Science* 37 (2018) 136–150.
19. Thijssen J.H.J., J. Vermant, Interfacial rheology of model particles at liquid interfaces and its relation to (bicontinuous) Pickering emulsions, *Journal of Physics and Condensed Matter* 30(2) (2018) 023002.
20. Forth J., P.Y. Kim, G. Xie, X. Liu, B.A. Helms, T.P. Russell, Building reconfigurable devices using complex liquid-fluid interfaces, *Advances Materials* 31 (2019) 1806370.
21. Pepicelli M., N. Jaensson, C. Tregouet, B. Schroyen, A. Aliche, T. Tervoort, C. Monteux, J. Vermant, Surface viscoelasticity in model polymer multilayers: From planar interfaces to rising bubbles, *Journal of Rheology* 63(5) (2019) 815–828.
22. Toor A., J. Forth, S. Bochner De Araujo, M.C. Merola, Y. Jiang, X. Liu, Y. Chai, H. Hou, P.D. Ashby, G.G. Fuller, T.P. Russell, Mechanical properties of solidifying assemblies of nanoparticle surfactants at the oil-water interface, *Langmuir* 35 (2019) 13340–13350.
23. Wan D., H. Xiang, H. Xu, A laminar-jet-discharging method for measuring the interfacial tension of deformable surfaces, *Measurement Science and Technology* 31(3) (2019) 035302.
24. Xue T., L. Xu, Q. Wang, Measurements of seawater surface tension based on bubble rising behaviour, *Measurement: Journal of the International Measurement Confederation* 138 (2019) 332–340.
25. Gimenez-Ribes G., M. Habibi, L.M.C. Sagis, Interfacial rheology and relaxation behaviour of adsorption layers of the triterpenoid saponin Escin, *Journal of Colloid and Interface Science* 563 (2020) 281–290.
26. Gu C., L. Botto, FIPI: A fast numerical method for the simulation of particle-laden fluid interfaces, *Computer Physics Communications* 256 (2020) 107447.
27. Hakim M.R., Transport and rheological phenomena at fluid-fluid interfaces, PhD Thesis, Stanford University, 2020.
28. Rodriguez-Hakim M., S. Anand, J. Tajuelo, Z. Yao, A. Kannan, G. Fuller, Asphaltene-induced spontaneous emulsification: Effects of interfacial co-adsorption and viscoelasticity, *Journal of Rheology* 64 (2020) 799.
29. Chandran-Suja V., M. Rodriguez-Sakim, J. Tajuelo, G.G. Fuller, Single bubble and drop techniques for characterizing foams and emulsions, *Advances in Colloid and Interface Science* 286 (2020) 102295.
30. Wang H., The influence of microparticles at the air-liquid interface on the pinch-off, oscillation and coalescence of bubbles, PhD Thesis, Imperial College, London, 2020.
31. Garcia B.F., Soheil Saraji, Transient interfacial rheology and polar component dynamics at oil-brine interfaces, *Colloids and Surfaces A* (2021) 126773.
32. Ginot G., F.S. Kratz, F. Walzel, J. Farago, J. Kierfeld, R. Hohler, W. Drenckhan, Pressure-deformation relations of elasto-capillary drops (droploons) on capillaries, *Soft Matter* 17 (2021) 9131–9153.
33. Jaensson N.O., P.D. Anderson, J. Vermant, Computational interfacial rheology, *Journal of non-Newtonian Fluid Mechanics* 290 (2021) 104507.
34. Joshipura I.D., K.A. Persson, V.K. Truong, J.-H. Oh, M. Kong, M.H. Vong, M. Alsafatwi, D.P. Parekh, H. Zhao, M.D. Dickey, Are contact angle measurements useful for oxide-coated liquid metals? *Langmuir* 37 (2021) 10914–10923.
35. Wang H., P.R. Brito-Parada, The role of microparticles on the shape and surface tension of static bubbles, *Journal of Colloid and Interface Science* 587 (2021) 14–23.
36. Bomal E., P. Gradgeorge, R.J. Yeo, N. Candau, P.M. Reis, H. Frauenrath, Spontaneous formation of self-healing carbon nanoskin at the liquid-liquid interface, *Nature Communications* 13 (2022) 4950.
37. Fernandes Soares I., E.P. Martin Castano, J. Limberger, M.F. Naccache, Effect of aromatic and non-aromatic solvents on the interfacial viscoelasticity and self-arrangement of asphaltenes, *Rheological Acta* 61 (2022) 583–600.
38. Guzman E., A. Mestro, C. Carbone, F. Ortega, R.G. Rubio, Dilatational rheology of fluid/fluid interfaces: Foundations and tools, *Fluids* 7 (2022) 335.
39. Soares I.F., Interfacial rheology and properties of island-type asphaltenes, PhD Thesis, Pontifical Universidade Catolica do Rio de Janeiro, 2022.
40. Jaensson N., Computational interfacial rheology, Video Article 5 (2023) 100114.
41. Fernandes Soares I., M.C.K. de Oliveira, M. Fejio Naccache, M. Nele, Effects of monovalent and divalent cations on the rheology of organic acid laden interfaces, *Journal of Dispersion Science and Technology* 44 (2023) 1389–1401.



42. Peng D., J. Yang, A. de Groot, W. Jin, Q. Deng, B. Li, L.M.C. Sagis, Soft gliadin nanoparticles at air/water interfaces: The transition from a particle-laden layer to a thick protein film, *Journal of Colloid and Interface Science* 669 (2024) 235–247.
- 174 **G.M. Radulova, K.D. Danov, P.A. Kralchevsky, J.T. Petkov, S.D. Stoyanov, Shear rheology of hydrophobin adsorption layers at oil/water interfaces and data interpretation in terms of viscoelastic thixotropic model, *Soft Matter* 10 (2014) 5777–5786. (брой: 7)**
  1. Li W., Y. Wang, H. Zhao, Z. He, M. Zeng, F. Qin, J. Chen, Improvement of emulsification properties of soy protein through selective hydrolysis: Interfacial shear rheology of adsorption layer, *Food Hydrocolloids* 60 (2016) 453–460.
  2. Bergfreund J., P. Bertsch, S. Kuster, P. Fischer, Effect of oil hydrophobicity on the adsorption and rheology of  $\beta$ -lactoglobulin at oil-water interfaces, *Langmuir* 34(15) (2018) 4929–4936.
  3. Navarro S.A.C., Evaluacion de mezclas de proteinas con hidrocoloides sobre las propiedades espumantes de emulsiones de aceite de aguacate persea americana, PhD Thesis, Universidad del Tolima, 2018.
  4. Zhang X., S.M. Kirby, Y. Chen, S.L. Anna, L.M. Walker, F.R. Hung, P.S. Russo, Formation and elasticity of membranes of the class II hydrophobin Cerato-ulmin at oil-water interface, *Colloids and Surfaces B* 164 (2018) 98–106.
  5. Li W., Y. Wang, J. Li, Y. Jiao, J. Chen, synergistic and competitive effects of monoglycerides on the encapsulation and interfacial shear rheology behaviour of soy proteins, *Food Hydrocolloids* 89 (2019) 631–636.
  6. Bergfreund J., P. Bertsch, P. Fischer, Effect of the hydrophobic phase on interfacial phenomena of surfactants, proteins, and particles at fluid interfaces, *Current Opinion in Colloid and Interface Science* 56 (2021) 101509.
  7. Jaensson N.O., P.D. Anderson, J. Vermant, Computational interfacial rheology, *Journal of non-Newtonian Fluid Mechanics* 290 (2021) 104507.
- 173 **R.D. Stanimirova, K.G. Marinova, K.D. Danov, P.A. Kralchevsky, E.S. Basheva, S.D. Stoyanov, E.G. Pelan, Competitive adsorption of the protein hydrophobin and an ionic surfactant: Parallel vs sequential adsorption and dilatational rheology, *Colloids and Surfaces A* 457 (2014) 307–317. (брой: 17)**
  1. Lech F.J., P. Stettenpool, M.B.J. Meinders, S. Sforza, H. Gruppen, P.A. Wierenga, Identifying changes in chemical, interfacial and foam properties of  $\beta$ -lactoglobulin-sodium dodecyl sulphate mixtures, *Colloids Surfaces A* 462 (2014) 44–44.
  2. Dan A., G. Gochev, R. Miller, Tensiometry and dilatational rheology of mixed  $\beta$ -lactoglobulin/ionic surfactant adsorption layers at water/air and water/hexane interfaces, *Journal of Colloid and Interface Science* 449 (2015) 383–391.
  3. Khalesi M., K. Gebruers, G. Derdelincka, Recent advances in fungal hydrophobin towards using in industry, *Protein Journal* 34(4) (2015) 243–255.
  4. Song Q., Protein adsorption in microengraving immunoassays, *Sensors* 15(10) (2015) 26236–26250.
  5. Kirbi S.M., X. Zhang, P.S. Russo, S. Anna, L.M. Walker, Formation of a rigid hydrophobin film and disruption by an anionic surfactant at an air/water interface, *Langmuir* 32(22) (2016) 5542–5551.
  6. Meena J., Singh M., Interacting behavior of bovine serum albumin at CMCs of aqueous Tween 20-80 studied by UV spectroscopy, *Journal of Scientific and Industrial Research* 75(12) (2016) 725–729.
  7. Nandagopal G.M.S., R. Antony, A.K.O. Rakesh, N. Selvaraju, Conservative level set simulation of droplet formation in a circular T and Y junction microchannel, *Journal of Scientific and Industrial Research* 75(12) (2016) 730–734.
  8. Linke C., S. Drusch, Pickering emulsions in foods: Opportunities and limitations, *Critical Reviews in Food Science and Nutrition*, Taylor and Francis, 2017.
  9. Politova N., S. Tcholakova, N.D. Denkov, Factors affecting the stability of water-oil-water emulsion films, *Colloids Surfaces A* 522 (2017) 608–620.
  10. Игоревна К.К., Синергетические эффекты в смешанных водных растворах рибаверин-интерферон, *Сеченовский вестник* 3(29) (2017) 51–56.
  11. Linke C., Strategies to increase turbidity in beverage emulsions, PhD Thesis, Technical University Berlin, 2018.
  12. Noble A.J., et al. Routine single particle CryoEM sample and grid characterization by tomography, *eLife* 7 (2018) e34257.
  13. Goralchuk A., O. Grinchenko, O. Riabets, O. Kotlyar, Food dispersion systems process stabilization. A review, *Ukrainian Food Journal* 8 (2019) 699–732.
  14. Kienskaya K.I., E.V. Il'yushenko, M.V. Sardushkin, N.Y. Guznova, T.Y. Koldaeva, A.M. Kusmaev, R.R. Ibragimova, I.A. Belova, A.V. Kukharensky, L.I. Shaposhnikova, O.V. Zav'yalova, G.V. Avramenko,

- Quantitative UV-spectrophotometric determination of ribavirin, *Pharmaceutical Chemistry Journal* 53(2) (2019) 175–177.
15. Aissaoui N., J. Lai-Kee-Him, A. Mills, N. Declerck, Z. Morichaud, K. Brodolin, S. Baconnais, E. Le Cam, J.B. Charbonier, R. Sounier, S. Granier, V. Ropars, Modular imaging scaffold single-particle electron microscopy, *ACS Nano* 15 (2021) 4186–4196.
  16. Firouzi M., V.I. Kovalchuk, G. Loglio, R. Miller, Salt effect on the dilatational viscoelasticity of surfactant adsorption layers, *Current Opinion in Colloid and Interface Science* 57 (2022) 101538.
  17. Jin Z., S. Feng, Y. Hu, H. Song, X. Guan, Z. Sun, Z. Dai, Preparation and characterization of oat digestive resistant peptide nanocarrier and its embedding effect on caffeic acid phenethyl ester, *Food and Fermentation Industries* 48 (2022) 169–175.
- 172 P.A. Kralchevsky, K.D. Danov, S.A. Anachkov, Micellar solutions of ionic surfactants and their mixtures with nonionic surfactants: theoretical modeling vs. experiment, Коллоидный журнал 76(3) (2014) 281–296. P.A. Kralchevsky, K.D. Danov, S.A. Anachkov, Micellar solutions of ionic surfactants and their mixtures with nonionic surfactants: theoretical modeling vs. experiment, Colloid Journal 76(3) (2014) 255–270. (брой: 11)**
1. Ghosh A. Development of pH-triggered, self-assembling peptide amphiphiles as tumor targeting imaging vehicles, PhD Thesis, Ohio State University, 2014.
  2. Кононов О.В., Е.Л. Котова, И.Д. Устинов, Комбинирующая технология обработки оталькованных золотосодержащих молибденитовых руд, Обогащение Руд 5 (2015) 9–13.
  3. Mandal A., S. Kar, A thermodynamic assessment of micellization for a mixture of sodium dodecyl benzene sulfonate and Tween 80 surfactants for ultralow interfacial tension, *Fluid Phase Equilibria* 408 (2016) 212–222.
  4. Tayari M., A. Maghari, A. Bahramian, Prediction of thermodynamic properties of sodium dodecyl sulfate aqueous solutions through the hetero-SAFT equation of state, *Journal of the Iranian Chemistry Society* 13(9) (2016) 1667–1672.
  5. Buetner C., Design and biological evaluation of peptide amphiphile nanoparticles for target tumor delivery, PhD Thesis, Ohio State University, 2017.
  6. McClements D.J., S.M. Jafari, Improving emulsion formation, stability and performance using mixed emulsifiers: A review, *Advances in Colloid and Interface Science* 251 (2018) 55–79.
  7. Ludwig M., R. Geisler, S. Prevost, R. von Klitzing, Shape and structure formation of mixed nonionic-anionic surfactant micelles, *Molecules* 26 (2021) 4136.
  8. Savignano L., A. Fabozzi, R. Vitiello, M. Fornasier, S. Murgia, S. Guido, V. Guida, L. Paduano, G. D’Ercole, Effect of tail branching on the phase behavior and the rheological properties of amine oxide/ethoxysulfate surfactant mixtures, *Colloid Surfaces A* 613 (2021) 126091.
  9. Shchekin A.K., N.A. Volkov, I.N. Koltsov, N.Y. Tretyakov, S.S. Volkova, E.A. Turnaeva, Molecular-thermodynamic model of solubilization in direct spherical micelles of nonionic surfactants, *Colloid Journal* 83 (2021) 518–529.
  10. Wu F., Y. Gu, M. Ma, S. Jiang, F. Qian, G. Mu, Y. Lemg, X. Zhu, Progress in research on functional properties of natural small molecule emulsifiers in oil-in-water emulsions and their interactions with other emulsifiers, *Food Science* 42 (2021) 284–293.
  11. Buyukdagli S., Impact of the inner solute structure on the electrostatic mean-field and strong-coupling regimes of macromolecular interactions, *Physical Review E* 107 (2023) 064604.
- 171 P.V. Petkov, K.D. Danov, P.A. Kralchevsky, Surface pressure isotherm for a monolayer of charged colloidal particles at a water/nonpolar-fluid interface: experiment and theoretical model, Langmuir 30 (2014) 2768–2778. (брой: 27)**
1. Bykov A.G., B.A. Noskov, G. Loglio, V.V. Lyadinskaya, R. Miller, dilatational surface elasticity of spread monolayers of polystyrene microparticles, *Soft Matter* 10 (2014) 6499–6505.
  2. Bykov A.G., G. Loglio, R. Miller, B.A. Noskov, Dilatational surface elasticity of monolayers of charged polystyrene nano- and microparticles at liquid/fluid interface, *Colloids and Surfaces A* 485(20) (2015) 42–48.
  3. Deshmukh O., D. van den Ende, M.C. Stuart, F. Mugele, M.H.G. Duits, Hard and soft colloids at fluid interfaces: Adsorption, interactions, assembly, and rheology, *Advances in Colloid and Interface Science* 222 (2015) 215–227.
  4. Razavi S., K.D. Cao, B. Lin, K.Y.C. Lee, R.S. Tu, I. Kretschmar, Collapse of particle-laden interfaces under compression: buckling vs particle expulsion, *Langmuir* 31(28) (2015) 7764–7775.
  5. Shin S.H.R., Adaptive nanoparticle amphiphiles as multifunctional particle surfactants, PhD Thesis, College of Engineering, Pennsylvania State University, 2015.

6. Bahler P.T., M. Zanini, G. Morgese, E.M. Benetti, L. Isa, Immobilization of colloidal monolayers at fluid-fluid interfaces, *Gels* 2(3) (2016) 2030019.
  7. Banchelli M., B. Tiribilli, R. Pini, L. Dei, P. Mateini, G. Caminati, Controlled graphene oxide assembly on silver nanocube monolayers for SERS detection: dependence of nanocube packing procedure, *Beilstein Journal of Nanotechnology* 7 (2016) 9–21.
  8. Gao P., Z. Yi, X. Xing, T. Ngai, F. Jin, Influence of an additive-free particle spreading method on interactions between charged colloidal particles at an oil/water interface, *Langmuir* 32(19) (2016) 4909–4916.
  9. Gu C., L. Botto, Direct calculation of anisotropic surface stresses during deformation of a particle-covered drop, *Soft Matter* 12 (2016) 705–716.
  10. Ho C.-C., W.-Y. Lin, F.-G. Tseng, In situ monitoring of colloidal packing at air/water interface using visible laser diffraction, *RSC Advances* 6(84) (2016) 80463–80467.
  11. Huang X., Y. Na, Y. Xiong, X. Wang, K. Peng, Structure characterization of particle film and its role in stabilizing emulsions, *Progress in Chemistry* 28(12) (2016) 1743–1752.
  12. Janai E. A. Cohen, A.V. Butenko, A.B. Schofield, M. Schultz, E. Sloutskin, Dipolar colloids in apolar media: Direct microscopy of two-dimensional suspensions, *Scientific Reports* 6 (2016) 28578.
  13. Bykov A.G., G. Gochev, G. Loglio, R. Miller, A.K. Panda, B.A. Noskov, Dynamic surface properties of mixed monolayers of polystyrene micro- and nanoparticles with DPPC, *Colloids Surfaces A* 521 (2017) 239–246.
  14. Lotito V., T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
  15. El-Tawargy A.S., D. Stock, M. Gallei, W.A. Ramadan, M.A. Shams El-Din, G. Reiter, R. Reiter, Multiple structural transitions in Langmuir monolayers of charged soft-shell nanoparticles, *Langmuir* 34(13) (2018) 3909–3917.
  16. Gabovich A.M., A.I. Voitenko, Electrostatic interaction near the interface between dielectric media taking into account the nonlocality of the Coulomb field screening, *Journal of Molecular Liquids* 267 (2018) 166–176.
  17. Karnieli A., T. Markovich, D. Andelman, Surface pressure of charged colloids at air/water interface, *Langmuir* 34(44) (2018) 13322–13332.
  18. Majee A., T. Schmetzer, M. Bier, Electrostatic interaction between dissimilar colloids at fluid interfaces, *Physical Review E* 97(4) (2018) 042611.
  19. Zhao Q., Q. Wang, Y. Li, P. Ning, S. Tian, Influence of volatile organic compounds (VOCs) on pulmonary surfactant monolayers at air-water interface: Implication for the pulmonary health, *Colloids and Surfaces A* 562 (2019) 402–408.
  20. Cuetos A., N. Morillo, B. Martinez-Haya, Coadsorption of counterionic colloids at fluid interfaces: A coarse-grained simulation study of Gibbs monolayers, *Langmuir* 36 (2020) 2877–2885.
  21. Dallas P., Generation of Polymers and Nanomaterials at Liquid-Liquid Interfaces: Application to Crystalline, Light Emitting, and Energy Materials, Second Edition, (2020) 1–214.
  22. Lotito V., T. Zambelli, Pattern detection in colloidal assembly: A mosaic of analysis techniques, *Advances Colloid Interface Science* 284 (2020) 102252.
  23. Pradipto, H. Hayakawa, Simulation of dense non-Brownian suspensions with the lattice Boltzmann method: Shear jammed and fragile states, *Soft Matter* 16 (2020) 945–959.
  24. Thangamuthu M., C. Santschi, O.J.F. Martin, Reliable Langmuir Blodgett colloidal masks for large area nanostructure realization, *Thin Solid Films* 709 (2020) 138195.
  25. Valentino J., M. Anyfantakis, Exploiting additives for directing the adsorption and organization of colloid particles at fluid interfaces, *Langmuir* 37 (2021) 9302–9335.
  26. Lobel B., M.J. Hobson, P.M. Ireland, G.B. Webber, C.A. Thomas, H. Ogino, S. Fujii, E.J. Wanless, Interparticle repulsion of microparticles delivered to a pendent drop by an electric field, *Langmuir* 38 (2022) 670–679.
  27. Van Baalen C., J. Vialetto, L. Isa, Tuning electrostatic interactions of colloidal particles at oil-water interfaces with organic salts, *Physical Review Letters* 131 (2023) 128202.
- 170 K.D. Danov, P.A. Kralchevsky, K.P. Ananthapadmanabhan, Micelle-monomer equilibria in solutions of ionic surfactants and in ionic-nonionic mixtures, *Advances in Colloid and Interface Science* 206 (2014) 17–45. (брой: 88)**
1. Khare S., A. Alexander, Ajazuddin, N. Amit, Biomedical application of nanobiotechnology for drug design, delivery and diagnostics, *Research Journal of Pharmacy and Technology* 7(8) (2014) 915–925.
  2. Pons-Jimenez M., R. Cartas-Rosado, J.M. Martinez-Magadan, R. Oviedo-Roa, R. Cisneros-Devora, H.I. Beltran, L.S. Zamudio-Rivera, Theoretical and experimental insights on the true impact of C<sub>12</sub>TAC cationic surfactant in enhanced oil recovery for heavy oil carbonate reservoirs, *Colloids and Surfaces A* 455(1) (2014) 76–91.

3. Russel J., Y. Ngothai, R. Sedev, J.N. Connor, Drainage of vertical foam films of concentrated electrolyte solutions, *Chemeca 2014: Processing excellence; Powering our future*, Barton ACT. Engineers Australia, 711–718.
4. Sturcova A., J. Dubal, A. Zhigunov, N. Kotov, A. Braunova, The effect of micellization-induced deprotonation on the associative behavior of a carboxyl modified Pluronic P85, *Soft Matter* 10(40) (2014) 8011–8022.
5. Velikova G., I. Georgiev, M. Veneva, Effect of the precipitation of acid soap and alkanolic acid crystallites on the bulk pH, *ESGI'104*, Sofia, 2014.
6. Zhang F., Synthesis of  $\beta$ -cyclodextrin functionalized cellulose nanocrystals and their interactions with amphiphilic compounds, MSc. Thesis, University of Waterloo, Ontario, Canada, 2014.
7. Birdi K.S., Introduction to surface and colloid chemistry: Recent advances and general remarks, in *Handbook of Surface and Colloid Chemistry*, Fourth edition, 2015, 1–144.
8. Bravo B., C. Chavez, C. Gamarro, A. Moreno, N. Marquez, N. Delgado, A. Caceres, M. Luzardo, I. Parra, Physico-chemical characterization of new amphiphilic ion pairs based on alkylcarboxylic acids, *Biointerface Research in Applied Chemistry* 5(1) (2015) 926–930.
9. Brodskaya E.N., A.A. Vanin, Effect of water on the local electric potential of simulated ionic micelles, *Journal of Chemical Physics* 143(4) (2015) 044707.
10. Oszwaldowski S., P. Kuban, Capillary electrophoresis study on phase of mixed micelles and its role in transport phenomena of particles, *Analytica Chimica Acta* 864 (2015) 85–93.
11. Pashirova T.N., S.S. Lukashenko, S.V. Zakharova, A.D. Voloshina, E.P. Zhitsova, V.V. Zobov, E.B. Souto, L.Y. Zakharova, Self-assembling systems based on quaternized derivatives of 1,4-diazabicyclo[2.2.2]octane in nutrient broth as antimicrobial agents and carriers for hydrophobic drugs, *Colloids and Surfaces B* 127 (2015) 266–273.
12. Ren Z.H., Y. Luo, Y.C. Zheng, C.J. Wang, D.P. Shi, F.X. Li, Micellization behavior of the mixtures of amino sulfonate amphoteric surfactant and octadecyltrimethyl ammonium bromide in aqueous solution at 40 °C: A tensiometric study, *Journal of Materials Science* 50 (2015) 1965–1972.
13. Vanin A.A., E.N. Brodskaya, Computer simulation of the surface layer of an ionic micelle with explicit allowance for the contribution of water, *Colloid Journal* 77(4) (2015) 409–417.
14. Zhang L., A. Mikhailovskaya, P. Yazhgur, F. Muller, F. Cousin, D. Langevin, Wang N., Salonen A., Precipitating sodium dodecyl sulfate to create ultrastable and stimutable foams, *Angewandte Chemie – International Edition* 54(33) (2015) 9533–9536.
15. Zhu M., J. Yao, K. Masakoral, R. Chandankere, H. Chen, B. Ceccanti, Ultrasound-assisted extraction of PAH-contaminated clay soil in the Middle Yangtze River Basin, China: Optimisation with response surface methodology, *Fresenius Environmental Bulletin* 24(10B) (2015) 34263435.
16. Bai G., J. Cheng, Y. Wang, H. Wu, Y. Zhao, K. Zhuo, M. Bastos, Interaction between a hydrophobic rigid face and a flexible alkyl tail: Thermodynamics of self-assembling of sodium cholate and SDS, *Journal of Chemical Thermodynamics* 100 (2016) 131–139.
17. Bouchal R., Surfactants, ionic liquids, and ionosilicas: functional ionic systems for supramolecular chemistry and elaboration of materials by design, PhD Thesis, Montpellier University, 2016.
18. Febriyanti E., V. Suendo, R.R. Mukti, A. Prasetyo, A.F. Anfin, M.A. Akbar, S. Triwahyono, I.N. Marsih, Ismunandar, Further insight into the definite morphology and formation mechanism of mesoporous silica KCC-1, *Langmuir* 32(23) (2016) 5802–5811.
19. Gubaidullin A.T., I.A. Litvinov, A.I. Samigullina, O.S. Zueva, V.S. Rukhlov, B.Z. Idiyatullin, Yu.F. Zuev, Structure and dynamics of concentrated micellar solutions of sodium dodecyl sulfate, *Russian Chemical Bulletin* 65(1) (2016) 158–166.
20. Mandal A., S. Kar, A thermodynamic assessment of micellization for a mixture of sodium dodecyl benzene sulfonate and Tween 80 surfactants for ultralow interfacial tension, *Fluid Phase Equilibria* 408 (2016) 212–222.
21. Ren Z.H., J. Huang, Y. Luo, Y.C. Zheng, P. Mei, L. Lai, Y.L. Chang, Micellization behavior of binary mixtures of amino sulfonate amphoteric surfactant with different octylphenol polyoxyethylene ethers in aqueous salt solution: Both cationic and hydrophilic effects, *Journal of Industrial and Engineering Chemistry* 36 (2016) 263–270.
22. Us'yarov O.G., Small-angle X-ray scattering in sodium dodecyl sulfate solutions and micelle clustering, *Colloid Journal* 78(5) (2016) 696–704.
23. Владимировна Ш.Ю., Матричная полимеризация ионных мономеров на мицелах противоположно заряженных ПАВ: синтез, структура и свойства продуктов, Диссертация доктора химических наук, Волгоградский Государственный Технический Университет, Волгоград 2016.
24. Cheng M., G. Zeng, D. Huang, C. Yang, C. Lai, C. Zhang, Y. Liu, Advantages and challenges of Tween 80 surfactant-enhanced technologies for the remediation of soils contaminated with hydrophobic organic compounds, *Chemical Engineering Journal* 314 (2017) 98–113.



25. Kumar S., A. Mandal, Thermodynamics of micellization, interfacial behavior and wettability alteration of aqueous solution of nonionic surfactants, *Tenside* 54(5) (2017) 427–436.
26. Medos Z., M. Bester-Rogac, Two-step micellization model: The case of long chain carboxylates in water, *Langmuir* 33(31) (2017) 7722–7731.
27. Perek-Dlugosz A., A. Socha, J. Rynkowski, Electrochemical reactions of sodium 2-ethylhexyl sulfate salt, *Electrocatalysis* 8(3) (2017) 270–278.
28. Qin L., X.-H. Wang, Surface adsorption and thermodynamic properties of mixed system of ionic liquid surfactants with cetyltrimethyl ammonium bromide, *RSC Advances* 7 (2017) 51426–51435.
29. Ren Z.H., J. Huang, Y.C. Zheng, L. Lai, L.L. Hu, Y.I. Chang, Micellization of binary mixture of amino sulfonate amphoteric surfactant and octylphenol polyoxyethylene ether (10) in aqueous solution: different electrolyte effect, *Journal of Chemical and Engineering Data* 62(3) (2017) 938–946.
30. Wang Y.-X., K. Lin, L. Chen, X.-G. Zhou, S.-L. Liu, Intermolecular interaction in self-assembly process of sodium dodecyl sulfate by vertically polarized Raman spectra, *Chinese Journal of Chemical Physics* 30 (2017) 365.
31. Bravo B., Chaves G., N. Marquez, N. Delgado, A. Caceres, M. Luzardo, I. Parra, M. Collins, A. Borja, Aggregation behavior of novel ion pair surfactants, *Revista Bases de la Ciencia* 3(2) (2018) 1–10.
32. Fernandez-Alvarez R., Z. Medos, Z. Tosner, A. Zhigunov, M. Uchman, S. Hervo-Hansen, M. Lund, M. Bester-Rogac, P. Matejcek, Total description of intrinsic amphiphile aggregation: Calorimetry study and molecular probing, *Langmuir* 34 (2018) 14448–14457.
33. Jiang H., G. Beaucage, K. Vogtt, M. Weaver, The effect of solvent polarity on wormlike micelles using dipropylene glycol (DPG) as a cosolvent in an anionic/zwitterionic mixed surfactant system, *Journal of Colloid and Interface Science* 509 (2018) 25–31.
34. Scholz N., T. Behnke, U. Resch-Genzer, Determination of the critical micelle concentration of neutral and ionic surfactants with fluorimetry, conductometry, and surface tension – A method comparison, *Journal of Fluorescence* 28(1) (2018) 465–476.
35. Sewerin A., Interactions between surfactants and the skin: Theory and practice, *Advances in Colloid and Interface Science* 256 (2018) 242–255.
36. Us'yarov O.G., E.V. Plotnikova, T.G. Movchan, The effect of background electrolyte on the viscosity of aqueous dodecyltrimethylammonium bromide solutions, *Colloid Journal* 80(4) (2018) 447–452.
37. Wang X., W. Xiao, L. Zhang, X. Gao, Study of synergistic adsorption effect of n-nonyl alcohol and steryl phosphoric acid upon the surface of rutile, *Nuclear Techniques* 41(9) (2018) 090501.
38. Barbero F., O.H. Moriones, N.G. Bastus, V. Puentes, Dynamic equilibrium in the cetyltrimethylammonium bromide-Au nanoparticle bilayer, and the consequent impact on the formation of the nanoparticle protein corona, *Bioconjugate Chemistry* 2019.
39. Han W.M., X. Zhou, J. Tan, L.Q. Peng, W.H. Zhang, Evaluation of ecotoxicity of typical surfactants for leather manufacture by luminescent bacteria, 35th IULTCS Congress 2019: "Benign by Design" Leather - The Future through Science and Technology 2019, 121.
40. Nieto-Alvarez D.-A., J.-M. Martinez-Magadan, R. Ceron-Camacho, A.-G. Servin-Najera, R. Cisneros-Devora, L.-S. Zamudio-Rivera, Density functional theory and UPLC/MS/ESI studies of the zwitterionic surfactant- $\text{Na}^+$  pair formation, *Journal of Molecular Graphics and Modeling* 91 (2019) 204–213.
41. Oszwaldowski S., Capillary electrophoresis study on segment/segment system and its role in characterization of nanoparticles, 1601 (2019) 365–374.
42. Sharker K.K., S.-I. Yusa, C.M. Phan, Micellar formation of cationic surfactants, *Heliyon* 5(9) (2019) 02425.
43. Waissenborn E., B. Braunschweig, Specific ion effects of dodecyl sulfate surfactants with alkali ions at the air-water interface, *Molecules* 24 (2019) 2911.
44. Wasilewski T., Y.-Q. Sun, W. Hireszuch, A. Seweryn, T. Bujak, Evaluation of ethoxylated rapeseed oil fatty acids esters as nonionic co-surfactant in hand dishwashing liquids, *Tenside Surfactants* 56(4) (2019) 279–286.
45. Xiao W., P. Cao, Q. Liang, E. Zhang, J. Wang, Synergistic adsorption mechanism of styryl phosphoric acid and nonyl alcohol on the rutile surface and effects on flotation, *Canadian Metallurgical Quarterly* 58 (2019) 19–27.
46. Zueva O.S. Modified method of conductometric data analysis to calculate the conductivity of surfactant ions, *E3S Web of Conferences* 124 (2019) 03009.
47. Zueva O.S. Modified method of conductometric data analysis to calculate the degree of ionization and conductivity of micelles, *E3S Web of Conferences* 124 (2019) 03008.
48. Zueva O.S., V.S. Rukhlov, E.V. Gazeeva, Y.K. Mongush, Mathematical modeling of surfactant self-organization in water solution in the presence of carbon nanotubes, *IOP Conference Series: Earth and Environmental Science* 288(1) (2019) 012059.
49. Bali M., O. Masalci, Interactions of cationic surfactants with polyvinylpyrrolidone (PVP): Effects of counter ions and temperature, *Journal of Molecular Liquids* 303 (2020) 112576.

50. Calderon S.M., J. Malila, N.L. Prisle, Model for estimating activity coefficients in binary and ternary ionic surfactant solutions: The CMC based ionic surfactant activity (CISA) model for atmospheric applications, *Journal of Atmospheric Chemistry* 77 (2020) 141–168.
51. Li Y.-F., W.-Y. Chien, Y.-J. Liu, Y.-C. Lee, S.-L. Lo, C.-Y. Hu, Perfluorooctanoic acid (PFOA) removal by flotation with cationic surfactants, *Chemosphere* 2020 128949.
52. Mirgorod Y., A. Storozhenko, The role of zero-point energy of water in micelle formation of ionic surfactants, Southwest State University, Kursk, 2020.
53. Morni A., S.M. Mostafavi, Cloud point-dispersive liquid-liquid microextraction for preconcentration and separation of mercury in wastewater samples by methylsulfanyl thiophenol material, *Analytical Methods in Environmental Chemistry Journal* 3 (2020) 63–71.
54. Olutas E.B., T. Taskesen, N.B. Kartal, Double-tailed single-head amino acid-based chiral cationic amphiphilic molecules: Synthesis, characterization, and physicochemical properties, *Journal of Surfactants and Detergents* 23 (2020) 153–168.
55. Sarac B., M. Bester-Rogac, The influence of ionic liquids on micellization of sodium dodecyl sulfate in aqueous solutions, *Acta Chim. Slov.* 67 (2020) 1–7.
56. Seweryn A., T. Wasilewski, Detergents in the coacervate form with plant extracts obtained under supercritical carbon dioxide conditions as examples of sustainable products, *Journal of Dispersion Science and Technology* 41 (2020) 797–808.
57. Del Regno A., P.B. Warren, D.J. Bray, R.L. Anderson, Critical micelle concentrations in surfactant mixtures and blends by simulation, *Journal of Physical Chemistry B* 125 (2021) 5983–5990.
58. Garido F.P., P. Rodriguez-Dafonte, L. Garcia-Rio, A. Pineiro, simple approximation for aggregation number determination by isothermal titration calorimetry: STAND-ITC, *Langmuir* 37 (2021) 11781–11792.
59. Kuhnhammer M., T. Widmann, L.P. Kreuzer, A.J. Schmid, L. Wiehemeier, H. Frielinghaus, S. Jaksch, T. Bogershausen, P. Barron, H. Schneider, A. Hiess, P. Muller-Buschbaum, Flexible simple environments for the investigation of soft matter at the European spallation source: III. The macroscopic foam cell, *Applied Science* 11 (2021) 5116.
60. Ludwig M., R. Geisler, S. Prevost, R. von Klitzing, Shape and structure formation of mixed nonionic-anionic surfactant micelles, *Molecules* 26 (2021) 4136.
61. Ludwig M., Surface forces across colloidal dispersions, PhD Thesis, Darmstadt Technical University, Germany, 2021.
62. Oszwaldowski S., Capillary electrophoresis study on evolution of phase of mixed micelles, *Colloid and Polymer Science* 299 (2021) 729–740.
63. Pavlovic M., H.K. Ramia Ramesh Babu, S. Djalali, M. Vranes, V. Radonic, L. Zeininger, Facile monitoring of water hardness levels using responsive complex emulsions, *Analytical Chemistry* 93 (2021) 9390–9396.
64. Sanchez-Fernandez A., A.J. Jackson, S.F. Prevost, J.J. Douch. K.J. Edler, Long-range electrostatic colloidal interactions and specific ion effects in deep eutectic solvents, *Journal of the American Chemical Society* 143 (2021) 14158–14168.
65. Seesomdee C., S. Tungasmita and P. Dechadilok, Determination of critical micelle concentration (CMC) of surfactants by contact angle measurement method, 2021 6th International STEM Education Conference (iSTEM-Ed) (2021) 1–4.
66. Seweryn A., T. Wasilewski, A. Bocho-Janiszewska, Correlations between the type of aggregates in the bulk phase and the functionality and safety of all-purpose cleaners, *International Journal of Molecular Science* 22 (2021) 6592.
67. Yanagisawa N., M. Tani, R. Kurita, Dynamics and mechanism of liquid film collapse in a foam, *Soft Matter* 17 (2021) 1738–1745.
68. Danino D., T. Zemb, On the shape and connections of micelles: electron microscopy imaging inspiring thermodynamic modelling, *Current Opinion in Colloid and Interface Science* 61 (2022) 101607.
69. Fa K., H. Liu, H. Gong, L. Zhang, M. Liao, X. Hu, D. Ciumac, P. Li, J. Webster, J. Petkov, R.K. Thomas, J.R. Lu, In-membrane nanostructuring of cationic amphiphiles affects their antimicrobial efficacy and cytotoxicity: A comparison study between a de novo antimicrobial lipopeptide and traditional biocides, *Langmuir* 38 (2022) 6623–6637.
70. Fioretto L., M. Ziacco, C. Gallo, G. Nuzzo, D. d'Ippolito, P. Lupetti, E. Paccagnini, M. Gentile, M. DellaGreca, M.-S. Appavou, L. Paduano, R. De Palma, Direct evidence of the impact of aqueous self-assembly on biological behavior of amphiphilic molecules: The case study of molecular immunomodulators Sulfavants, *Journal of Colloid and Interface Science* 611 (2022) 129–136.
71. Gao S., C. Ochoa, V. Sharma, S. Srivastava, Salt weakens intermicellar interactions and structuring in bulk solutions and foam films, *Langmuir* 38 (2022) 11003–11014.
72. Joy Md.T.R., M.A. Rub, Md.A.A. Hossain, P.K. Biswas, Y.G. Alhamdi, A.M. Asiri, Md.R. Amin, S.C. Mohanta, Md.A. Hoque, S.E. Kabir, Study of the aggregation, interaction, and thermodynamic properties of

- the dodecyltrimethylammonium bromide & cefixime trihydrate mixture in sodium salts solution at numerous temperatures, *Molecular Physics* 120 (2022) e2091052.
73. Keranen L.V.S., Studying the growth and cloud activation of sodium decanoate and sodium chloride particles as surrogates of organic marine aerosols, PhD Thesis (2022), University of Oulu.
  74. Lu Y., F. Zhang, X. Lu, H. Jiang, W. Hu, L. Liu, L. Gai, Electrolytes with micelle-assisted formation of directional ion transport channels for aqueous rechargeable batteries with impressive performance, *Nanomaterial* 12 (2022) 1920.
  75. Mat Noor R., Synthesis of polymer/graphene oxide nanocomposite foams: A new dispersion-based approach, PhD Thesis, UNSW, Sidney, Australia, 2022.
  76. Olutas E.B., Micellar and surface properties of cationic-cationic binary surfactant mixtures: Synergistic interactions and solubility enhancement of anthracene, *Sakarya University Journal of Science* 26 (2022) 105–119.
  77. Zapata K., Y. Rodriguez, S.H. Lopera, F.B. Cortes, C.A. Franco, Development of bio-nanofluids based on the effect of nanoparticles' chemical nature and novel solanum torvum extract for chemical enhanced oil recovery (CEOR) processes, *Nanomaterials* 12 (2022) 3214.
  78. Zueva O.S., V.S. Rukhlov, Y.F. Zuev, Morphology of ionic micelles as studied by numerical solution of the Poisson equation, *ACS Omega* 7 (2022) 6174–6183.
  79. Braun L., M. Hohenschutz, O. Diat, R. von Klitzing, P. Bauduin, Repulsive-but sticky – Insights into the non-ionic foam stabilization mechanism by superchaotropic nano-ions, *Journal of Colloid and Interface Science* 641 (2023) 437–448.
  80. Endo M., M. Tani, R. Kurita, Scraping of foam on a substrate, *Journal of Colloid and Interface Science* 650 (2023) 1612–1618.
  81. Saw R.K., D. Sinojiya, P. Pillai, S. Prakash, A. Mandal, Experimental Investigation of the Synergistic Effect of Two Nonionic Surfactants on Interfacial Properties and Their Application in Enhanced Oil Recovery, *ACS Omega* 8 (2023) 12445–12455.
  82. Sengupta S., J. Versluis, H.J. Bakker, Observation of a Two-Dimensional Hydrophobic Collapse at the Surface of Water Using Heterodyne-Detected Surface Sum-Frequency Generation, *Journal of Physical Chemistry Letters* 14 (2023) 9285–9290.
  83. Shteindel N., A. Silberbush, Y. Gerchman, Effect of drinking water salt content on the interfacial interaction between surfactants and bacteria, *Microbiology Spectrum* (2023).
  84. Li W., F. Zhang, P. Li, L. Ji, C. Han, J. Jiang, Performance characterization of water extracts of *Camellia oleifera* cake/sodium N-lauroylsarcosinate foam detergent with high foamability, *Colloids and Surfaces A* 681 (2024) 132730.
  85. We A.C.E., A. Zamiadi, A.D. Stickland, B.O. Clarke, S. Frequia, A review of foam fractionation for the removal of per- and polyfluoroalkyl substances (PFAS) from aqueous matrices, *Journal of Hazardous Materials* 465 (2024) 133182.
  86. Vilangottunjalil A., J. Versluis, H.J. Bakker, Observation of Electrostatically Driven Surface Adsorption in Mixed Surfactant Systems, *Journal of Physical Chemistry Letters* (2024) 1596–1602.
  87. Shadloo A., K. Peyvandim, A. Shojaeian, S. Shariat, Prediction of the second critical micelle concentration of aqueous tween and span solutions via CPA EoS: Application of the quantitative theory in growth of wormlike micelles, *Fluid Phase Equilibria* 582 (2024) 114085.
  88. Pooja G., P.S. Kumar, B. Chitra, G. Rangasami, Effective removal of ibuprofen from aqueous solution using cationic surface-active agents in dissolved air-flotation process, *International Journal of Chemical Engineering* (2024) 9014776.
- 169 S.A. Anachkov, P.A. Kralchevsky, K.D. Danov, G.S. Georgieva, K.P. Ananthapadmanabhan, Dislike vs. cylindrical micelles: Generalized model of micelle growth and data interpretation, *Journal Colloid & Interface Science* 416 (2014) 258–273. (брой: 19)**
1. Kumar K., S. Chauchan, Surface tension and UV-visible investigations of aggregation and adsorption behavior of NaCl and NaDC in water-amino acid mixtures, *Fluid Phase Equilibria* 394 (2015) 165–174.
  2. Abdelmohsen L.K.E.A., R.S.M. Rikken, P.C.M. Christianen, J.C.M. van Hest, D.A. Wilson, Shape characterization of polymersome morphologies via light scattering technique, *Polymer* 107 (2016) 445–449.
  3. Chauhan S., V. Sharma, K. Singh, M.S. Chauhan, K. Singh, Influence of lactose on the micellar behaviour and surface activity of bile salts as revealed through fluorescence and surface tension studies at varying temperatures, *Journal of Molecular Liquids* 222 (2016) 67–76.
  4. Danino D., L. Abezgauz, I. Portnaya, N. Dan, From disc to ribbon networks: The second critical micelle concentration in nonionic sterol solutions, *Journal of Physical Chemistry Letters* 7(8) (2016) 1434–1439.
  5. Greenall M.J., Disk-shaped bicelles in block copolymer/homopolymer blends, *Macromolecules* 49(2) (2016) 723–730.

6. Mandal A., S. Kar, A thermodynamic assessment of micellization for a mixture of sodium dodecyl benzene sulfonate and Tween 80 surfactants for ultralow interfacial tension, *Fluid Phase Equilibria* 408 (2016) 212–222.
  7. Zhang D., X. Wang, Effect of vesicle-to-micelle transition on the interaction of phospholipid/sodium cholate mixed systems with curcumin in aqueous solution, *Journal of Physical Chemistry B* 120(30) (2016) 7392–7400.
  8. Nagy R., R. Kothencz, L. Bartha, A. Vago, Determination of particle shape and size of micelles formed in aqueous solution of surfactants, XXII. *Fiatal Műszakiak Tudományos Ülésszaka*, 2017. Kolozsvár, 307–310.
  9. Manganaro N., I. Pisagatti, A. Notti, A. Pappalardo, S. Patane, N. Micali, V. Villari, M. Parisi, G. Gattuso, Ring/chain morphology control in overall-neutral, internally ion-paired supramolecular polymers, *Chemistry. A European Journal* 24(5) (2018) 1097–1103.
  10. Mitrinova Z., S. Tcholakova, N. Denkov, Control of surfactant solution rheology using medium-chain cosurfactants, *Colloids and Surfaces A* 537 (2018) 173–184.
  11. Dey J., R. Ghosh, R. Das Mahapatra, Self-assembly of unconventional low-molecular-mass amphiphiles containing a PEG chain, *Langmuir* 35 (2019) 848–861.
  12. Li J., X.-F. Zhang, C.-W. Zhang, N. Xu, Mesoscale Brownian dynamics simulation on the self-assembly behaviors of rodlike micelles of CTAC/NaSal surfactants, *China Surfactant Detergent and Cosmetics* 50 (2020) 213–219.
  13. Jadhav S.R., G. Bryant, J.P. Mata, A. Ife, D.S. Eldridge, E.A. Palombo, I.H. Harding, R.M. Shah, Structural aspects of a self-emulsifying multifunctional amphiphilic excipient: Part I. The case of Gelucire® 44/14, *Journal of Molecular Liquids* 340 (2021) 117172.
  14. Jadhav S.R., G. Bryant, J.P. Mata, D.S. Eldridge, E.A. Palombo, I.H. Harding, R.M. Shah, Structural aspects of a self-emulsifying multifunctional amphiphilic excipient: Part II. The case of Cremophor EL, *Journal of Molecular Liquids* 344 (2021) 117881.
  15. Nagi R., R. Kothencz, M. Hartyanyi, L. Bartha, Relationship between some colloidal properties of non-ionic-anionic surfactant mixtures, *Processes* 10 (2022) 1136.
  16. Anagnosti L., Advanced aesthetics and cosmetic science: Development quality control and safety of new cosmetic products, PhD Thesis, University of West Attica, Greece, 2023.
  17. Alfred R., G. Bryant, J.P. Mata, M. Bhav, R.M. Shah, Unraveling the Effects of Cationic Peptides on Vesicle Structures: Insights into Peptide-Membrane Interactions, *ACS Applied Bio Materials* 7 (2024) 220–229.
  18. Denk P., L. Matthews, S. Prevost, T. Zemb, W. Kunz, A dilute nematic gel produced by intracellular segregation of two polyoxyethylene alkyl ether carboxylic acids, *Journal of Colloid and Interface Science* 659 (2024) 833–848.
  19. Shadloo A., K. Peyvandim, A. Shojaeian, S. Shariat, Prediction of the second critical micelle concentration of aqueous tween and span solutions via CPA EoS: Application of the quantitative theory in growth of wormlike micelles, *Fluid Phase Equilibria* 582 (2024) 114085.
- 168 P.A. Kralchevsky, K.D. Danov, S.A. Anachkov, G.S. Georgieva, K.P. Ananthapadmanabhan, Extension of the ladder model of self-assembly from cylindrical to disc-like surfactant micelles, *Current Opinion in Colloid & Interface Science* 18 (2013) 524–531. (брой: 12)**
1. Mukherjee J., M.N. Gupta, Molecular bioimprinting of lipases with surfactants and its functional consequences in low water media, *International Journal of Biological Macromolecules* 81 (2015) 544–551.
  2. Abdelmohsen L.K.E.A., R.S.M. Rikken, P.C.M. Christianen, J.C.M. van Hest, D.A. Wilson, Shape characterization of polymersome morphologies via light scattering technique, *Polymer* 107 (2016) 445–449.
  3. Danino D., L. Abezgauz, I. Portnaya, N. Dan, From disc to ribbon networks: The second critical micelle concentration in nonionic sterol solutions, *Journal of Physical Chemistry Letters* 7(8) (2016) 1434–1439.
  4. Berlepsch H.V., B.N.S. Thota, M. Wyszogrodzka, S. De Carlo, R. Haag, C. Bottcher, Controlled self-assembly of stomatosomes by use of single-component fluorinated dendritic amphiphiles, *Soft Matter* 14(25) (2018) 5256–5269.
  5. Mamardashvili G.M., E.Y. Kaigorodova, I.A. Khodov, I. Scheblykin, N.Z. Mamardashvili, O.I. Koifman, Micelles encapsulated Co(III)-tetra(4-sulfophenyl)porphyrin in aqueous CTAB solutions: Micelle formation, imidazole binding and redox Co(III)/Co(II) processes, *Journal of Molecular Liquids* 293 (2019) 111471.
  6. Li X., L. Liang, Y. Tan, Q. Huang, S. Yang, Y. Tian, J. Zhou, H. Wu, Using hierarchical mesoporous mg-al Idh as a potential model to precisely load bsa for biological application, *Journal of Micromechanics and Molecular Physics* 5 (2020) 2050012.
  7. Denk P., A. El Maangar, J. Lal, D. Kleber, T. Zemb, W. Kunz, Phase diagrams and microstructures of aqueous short alkyl chain polyethylene glycol ether carboxylate and carboxylic acid triblock surfactant solutions, *Journal of Colloid and Interface Science* 590 (2021) 375–386.
  8. Kolwas M., D. Jakubczyk, J. Archer, T.D. Duk, Evolution of mass, surface layer composition and light scattering of evaporating, single microdroplets of SDS/DEG suspension. Shrinking droplet surface as the micelles generator, *Journal of Quantitative Spectroscopy and Radiative Transfer* 258 (2021) 107396.



9. Danino D., T. Zemb, On the shape and connections of micelles: electron microscopy imaging inspiring thermodynamic modelling, *Current Opinion in Colloid and Interface Science* 61 (2022) 101607.
  10. Denk P., A. El Maangar, S. Prevost, W. Silva, R/ Gschwind, T. Zemb, W. Kunz, Cloud point, auto-coacervation, and nematic ordering of micelles formed by ethylene oxide containing carboxylate surfactants, *Journal of Colloid and Interface Science* 621 (2022) 470–488.
  11. Mondal B.B., R. Banik, S. Ghosh, Impact of 2,2,2-trifluoroethanol (TFE) on hydrophobicity enhancement in the aggregation of sodium N-dodecanoyl sarcosinate (SDDS) with nonionic hydroxyethyl cellulose, *Colloids and Surfaces A* 681 (2024) 132781.
  12. Lifshiz-Simon S., W. Kunz, T. Zemb, Y. Talmon, Ion effects on co-existing pseudo-phases in aqueous surfactant solutions: cryo-TEM, rheometry, and quantification, *Journal of Colloid and Interface Science* 660 (2024) 177–191.
- 167 K.D. Danov, P.A. Kralchevsky, Forces acting on dielectric colloidal spheres at a water/nonpolar-fluid interface in an external electric field: 2. Charged particles, Journal of Colloid and Interface Science 405 (2013) 269–277. (брой: 11)**
1. Domingues A., Signature of the time-dependent hydrodynamic interactions on the collective diffusion in colloidal monolayers, *Physical Review E* 90(6) (2014) 062314.
  2. Bossa G.V., J. Roth, K. Bohinc, S. May, The apparent charge of nanoparticles trapped at a water interface, *Soft Matter* 12(18) (2016) 4229–4240.
  3. Bossa G.V., K. Bohinc, M.A. Brown, S. May, Dipole moment of a charged particle trapped at the air-water interface, *Journal of Physical Chemistry B* 120(26) (2016) 6278–6285.
  4. Hu Y., P. Vlahovska, M.J. Miksis, Dielectric spherical particle on an interface in an applied electric field, *SIAM Journal of Applied Mathematics* 70(3) (2019) 850–875.
  5. Hu Y., P. Vlahovska, M.J. Miksis, Aelectrohydrodynamic assembly of colloidal particles on a drop interface, *Mathematical Biosciences and Engineering* 18 (2021) 2357–2371.
  6. Vialetto J., M. Anyfantakis, Exploiting additives for directing the adsorption and organization of colloid particles at fluid interfaces, *Langmuir* 37 (2021) 9302–9335.
  7. Guzman E., F. Martinez-Pedrero, C. Calero, A. Maestro, F. Ortega, R.G. Rubio, A broad perspective to particle-laden fluid interfaces systems: From chemically homogeneous particles to active colloids, *Advances in Colloid and Interface Science* 302 (2022) 102620.
  8. Lobel B.T., M.J. Hobson, P.M. Ireland, G.B. Webber, C.A. Thomas, H. Ogino, S. Fujii, E.J. Wanless, Interparticle repulsion of microparticles delivered to a pendent drop by an electric field, *Langmuir* 38 (2022) 670–679.
  9. Bhat B., S. Pahari, J.S.-I. Kwon, M.E.S. Akbulut, Stimuli-responsive viscosity modifiers, *Advances in Colloid and Interface Science* 321 (2023) 103025.
  10. Prisaznuk J.M., P. Huang, X. Yong, P.R. Chiarot, Probing Colloidal Assembly on Non-Axisymmetric Droplet Surfaces via Electrospray, *Langmuir* 39 (2023) 469–477.
  11. Rogier F., W. Shao, Y. Guo, L. Zhuang, W.K. Kegel, J. Groenewald, Deformation of confined liquid interfaces by inhomogeneous electric fields and localized particle forces, *Journal of Colloid and Interface Science* 657 (2024) 830–840.
- 166 K.D. Danov, P.A. Kralchevsky, Forces acting on dielectric colloidal spheres at a water/nonpolar-fluid interface in an external electric field: 1. Uncharged particles, Journal of Colloid and Interface Science 405 (2013) 278–290. (брой: 8)**
1. Domingues A., Signature of the time-dependent hydrodynamic interactions on the collective diffusion in colloidal monolayers, *Physical Review E* 90(6) (2014) 062314.
  2. Покотило О.А., Латерални капилярни сили в живих системах, *Фармакология та фармація* 2(81) (2014) 106–109.
  3. Kumar A., B.K. Mandal, P. Mishra, Morphology of colloid particles dispersed in nematic solvent, *Journal of Physics: Conference Series* 765 (2016) 012022.
  4. Hu Y., P. Vlahovska, M.J. Miksis, Dielectric spherical particle on an interface in an applied electric field, *SIAM Journal of Applied Mathematics* 70(3) (2019) 850–875.
  5. Jia Y., R. Huang, Y. Lan, Y. Ren, H. Jiang, D. Lee, Reversible aggregation and dispersion of particles at a liquid–liquid interface using space charge injection, *Advanced Materials Interfaces* 6 (2019) 1801920.
  6. Vlahovska P.M., Electrohydrodynamics of drops and vesicles, *Annual Review of Fluid Mechanics* 51 (2019) 305–330.
  7. Hu Y., P. Vlahovska, M.J. Miksis, Aelectrohydrodynamic assembly of colloidal particles on a drop interface, *Mathematical Biosciences and Engineering* 18 (2021) 2357–2371.

8. Rogier F., W. Shao, Y. Guo, L. Zhuang, W.K. Kegel, J. Groenewald, Deformation of confined liquid interfaces by inhomogeneous electric fields and localized particle forces, *Journal of Colloid and Interface Science* 657 (2024) 830–840.
- 165 **S.E. Anachkov, K.D. Danov, E.S. Basheva, P.A. Kralchevsky, K.P. Ananthapadmanabhan, Determination of the aggregation number and charge of ionic surfactant micelles from the step wise thinning of foam films, *Advances in Colloid and Interface Sci.* 183–184 (2012) 55–67. (брой: 108)**
  1. Dey J., S. Shrivastava, Physicochemical characterization and self-assembly studies on cationic surfactants bearing mPEG tail, *Langmuir* 28(50) (2012) 17247–17255.
  2. Storm S., Jakobtorweihen S., Smirnova I., Panagiotopoulos A.Z., Molecular dynamic simulation of SDS and CTAB micellization and prediction of partition equilibria with COSMOmic, *Langmuir* 29(37) (2013) 11582–11592.
  3. Voronin M.A., D.R. Gabdrakhmanov, R.N. Khaibullin, I.Y. Strobukina, V.E. Kataev, B.Z. Idiyatullin, D.A. Faizullin, Y.F. Zuev, L.Y. Zakharova, I. Konovalov, Novel biometric systems based on amphiphilic compounds with a diterpenoid fragment: Role of counterions in self-assembly, *Journal of Colloid and Interface Science* 405 (2013) 125–133.
  4. Kitagawa H., Development of sustained antimicrobial-release systems using poly-HEMA/TMPT hydrogels, PhD Thesis, Osaka University, 2014.
  5. Kitagawa H., K. Takeda, R. Kitagawa, N. Izutani, S. Miki, N. Hirose, M. Hayashi, S. Imazato, Development of sustained antimicrobial-release systems using poly(2-hydroxyethyl methacrylate)/trimethylolpropane trimethacrylate hydrogels, *Acta Biomaterialia* 10 (2014) 4285–4295.
  6. Poghosyan A.H., L.H. Arsenyan, A.A. Shahinyan, Long-chain alkyl sulfonate micelle fission: a molecular dynamics study, *Colloids and Polymer Science* 292 (2014) 3147–3156.
  7. Qin B., Y. Lu, Li F., Y. Jia, C. Zhu, Q. Shi, Preparation and stability of inorganic solidified foam for preventing coal fires, *Advances in Material Sciences and Engineering* 2014 (2014) 347386.
  8. Rumyantsev A.M., S. Santer, E.Y. Kramarenko, Theory of collapse and overcharging of a polyelectrolyte microgel induced by an oppositely charged surfactant, *Macromolecules* 47(15) (2014) 5388–5399.
  9. Storm S., Jakobtorweihen S., Smirnova I., Solubilization in mixed micelles studied by molecular dynamics simulations and COSMOmic, *J. Phys. Chem. B* 118(13) (2014) 3593–3604.
  10. Wang G., D. Zhang, Z. Du, P. Li, Spontaneous vesicle formation from trisiloxane-tailed gemini surfactant, *Journal of Industrial and Engineering Chemistry* 20(4) (2014) 1247–1250.
  11. Bakhtiari L., H.R. Rezaie, J. Javadpour, M. Erfan, M.A. Shokrgozar, The effect of synthesis parameters on the geometry and dimensions of mesoporous hydroxyapatite nanoparticles in the presence of 1-dodecanethiol as a pore expander, *Material Science and Engineering C* 53 (2015) 1–6.
  12. Bakhtiari L., H.R. Rezaie, J. Javadpour, M. Erfan, M.A. Shokrgozar, The effect of micellization pH on properties of sphere-like mesoporous hydroxyapatite, *International Journal of Engineering, Transactions A: Basics* 28(7) (2015) 1088–1095.
  13. Briscoe W.H., Depletion forces between particles immersed in nanofluids, *Current Opinion in Colloid and Interface Science* 20(1) (2015) 46–53.
  14. Chen Z., T.L. Greaves, R.A. Caruso, C.J. Drummond, Amphiphile micelle structures in the protonic ionic liquid ethylammonium nitrate and water, *Journal of Physical Chemistry B* 119(1) (2015) 179–191.
  15. Fontana A., S. Guemelli, N. Zaccheroni, D. Genovese, L. De Crescentili, S. RIELA, Micellization properties of cardanol as a renewable co-surfactant, *Organic and Biomolecular Chemistry* 13(35) (2015) 9214–9222.
  16. Krajisnik D., A. Dakovic, A. Malenovic, M. Kragovic, J. Milic, Ibuprofen sorption and release by modified natural zeolites as prospective drug carriers, *Clay Minerals* 50(1) (2015) 11–22.
  17. Lu Y., B. Qin, Experimental investigation of closed porosity of inorganic solidified foam designed to prevent coal fires, *Advances in Material Sciences and Engineering* 2015 (2015) 724548.
  18. Mao R., M.-T. Lee, A. Vishnyakov, A.V. Neimark, Modelling aggregation of ionic surfactants using a smeared charge approximation in dissipative particle dynamic simulations, *The Journal of Physical Chemistry B* 119(35) (2015) 11673–11683.
  19. Mertens B.S., O.D. Velev, Characterization and control of surfactant-mediated Norovirus interactions, *Soft Matter* 11 (2015) 8621–8631.
  20. Martinez-Santiago J., Polyelectrolyte-surfactant phase behavior and mechanisms of interaction in multicomponent systems, PhD Thesis, Columbia University, 2015.
  21. Nguyen H.T., W.-S. Chang, N.C. Nguyen, S.-S. Chen, H.-M. Chang, Influence of micelle properties on micellar-enhanced ultrafiltration from chromium recovery, *Water Science and Technology* 72(11) (2015) 2045–2051.
  22. Poghosyan A.H., L.H. Arsenyan, A.A. Shahinyan, J. Koetz, Polyethyleneimine loaded inverse SDS micelle in pentanol/toluene media, *Colloids and Surfaces A* 506 (2015) 402–408.

23. Poghosyan A.H., L.H. Arsenyan, A.A. Shahinyan, Shape of long chain alkyl sulfonate micelles upon salt addition: A molecular dynamic study, *Journal of Surfactants and Detergents* 18(5) (2015) 755–760.
24. Vashishtcha M., M. Mishra, D.O. Shah, Study of catalytic property of NaOH-cationic surfactant solutions for efficient, green and selective synthesis of flavone, *Journal of Molecular Liquids* 210(A) (2015) 151–159.
25. Versace R.E., T. Lazanidis, Modeling protein-micelle systems in implicit water, *Journal of Physical Chemistry B* 119(25) (2015) 8037–8047.
26. Yi Z., Functionalised mesoporous silica nanoparticles for smart agrochemical delivery systems, PhD Thesis, Deakin University, 2015.
27. Zhang Y., V. Sharma, Domain expansion dynamics in stratifying foam films: Experiments, *Soft Matter* 11(22) (2015) 4408–4417.
28. Beltramo P.J., J. Vermant, Simple optical imaging of nanoscale features in free-standing films, *ACS Omega* 1(3) (2016) 363–370.
29. Chen R., L. Zhang, D. Zhang, W. Shen, Wetting and drying of colloidal droplets: Physics and pattern formation, in: *Advances in Colloid Science*, Intech, 2016, Ch. 1.
30. Farafonov V.S., A.V. Lebed, Molecular dynamics simulation study of cetylpyridinium chloride and cetyltrimethylammonium bromide micelles, *Kharkov University Bulletin, Chemical Series* 27(50) (2016) 25–30.
31. Mao R., Design and testing of mesoscale models of industrial surfactants by dissipative particle dynamics, PhD Thesis, Rutgers University, 2016.
32. Mishra A., New applications for surfactant base colloidal systems: An experimental and computational approach, PhD Thesis, Wichita State University, 2016.
33. Poghosyan A.H., L.H. Arsenyan, A.A. Shahinyan, J. Koetz, Polyethyleneimine loaded inverse SDS micelles in pentanol/toluene media, *Colloids and Surfaces A* 506 (2016) 402–408.
34. Qamar S., P. Brown, S. Ferguson, R.A. Khan, B. Ismail, A.R. Khan, M. Sayed, A.M. Khan, The interaction of a model active pharmaceutical with cationic surfactant and the subsequent design of drug based ionic liquid surfactants, *Journal of Colloid and Interface Science* 481 (2016) 117–124.
35. Ritter E., D. Yordanova, T. Gerlach, I. Smirnova, S. Jakobtorweihen, Molecular dynamic simulations of various micelles to predict micelle water partition equilibria with COSMOmic: Influence of micelle size and structure, *Fluid Phase Equilibria* 422 (2016) 43–55.
36. Simion E.L., G. Stinga, A. Baran, L. Aricov, I.C. Gifu, D.F. Anghel, Smart borax complexes starting from anionic surfactant in association with unlabeled or fluorescently labeled poly(acrylic acid)s, *Colloid and Polymer Science* 294(5) (2016) 927–939.
37. Stoyanova K., Z. Vinarov, S. Tcholakova, Improving Ibuprofen solubility by surfactant-facilitated self-assembly into mixed micelles, *Journal of Drug Delivery Science and Technology* 36 (2016) 208–215.
38. Zhang Y. S. Yilixiati, C. Pearsall, V. Sharma, Nanoscopic terraces, mesas, and ridges in freely standing thin films sculpted by supramolecular oscillatory surface forces, *ACS Nano* 10(4) (2016) 4678–4683.
39. Ciesla J., M. Koczanska, J. Narkiewicz-Michalek, M. Szymula, A. Biegowski, Alpha-tocopherol in CTAB/NaCl systems — The light scattering studies, *Journal of Molecular Liquids* 233 (2017) 15–22.
40. Elfeki S.A., S.E. Mahmoud, A.F. Youssel, Applications of CTAB modified magnetic nanoparticles for removal of chromium (VI) from contaminated water, *Journal of Advanced Research* 8(4) (2017) 435–443.
41. Fang L., J. Tan, Y. Zheng, G. Yang, J. Yu, S. Feng, Synthesis, aggregation behavior of novel cationic silicone surfactants in aqueous solution and their application in metal extraction, *Journal of Molecular Liquids* 231 (2017) 134–141.
42. Farafonov V.S., A.V. Lebed, Developing and validating a set of all-atom models for sodium dodecyl sulfate, *Journal of Chemical Theory of Computation* 13(6) (2017) 2742–2750.
43. Imazoto S., H. Kitagawa, R. Tsuboi, R. Kitagawa, P. Thonhai, J.-I. Sasaki, Non-biodegradable polymer particles for drug delivery: A new technology for “bio-active” restorative materials, *Dental Materials Journal* 36(5) (2017) 524–532.
44. Roy A., B. Debnath, R. Sahoo, T. Aditya, T. Pal, Micelle confined mechanistic pathway for 4-nitrophenol reduction, *Journal of Colloid and Interface Science* 493 (2017) 288–294.
45. Rusanov A.I., Micellization theory based on the law of mass action with a variable aggregation number, *Colloid Journal* 79(5) (2017) 654–660.
46. Rusanov A.I., On the problem of determining aggregation numbers from surface tension measurements, *Langmuir* 33(47) (2017) 12643–12650.
47. Shin K., M. Sarker, S.K. Huang, J.K. Rainey, Apelin conformational and binding equilibria upon micelle interaction primarily depend on membrane-mimetic headgroup, *Scientific Reports* 7 (2017) 15433.
48. Tarai M., K. Mishra, Application of multivariate curve resolution–alternate least square technique on extracting pure spectral components from multiple emitting systems: A case study, *Journal of Fluorescence* 27(6) (2017) 2023–2036.

49. Румянцев А.М., Влияние конкуренции электростатических и неэлектростатических взаимодействий на конформационное поведение полимерных сеток, Дисертация, Физический факультет, МГУ, Москва, 2017.
50. Huang D., T. Jiang, W.-J. Wang, D.-H. Yu, study of solution properties of a novel surfactant of citric acid monoester and its application in oleogel, *Modern Food Science and Technology* 34(5) (2018) 113–122.
51. Hussain E., N. Niu, H. Zhou, S.A. Shahzad, C. Yu, Aggregation enhanced excimer emission (AEEE) of benzo[ghi]perylene and coronene: multimode probes for facile monitoring and direct visualization of micelle transition, *Analyst* 143(18) (2018) 4283–4289.
52. Joo J., C. Poon, S.P. Yoo, E.J. Chung, Shape effect of peptide amphiphile micelles for targeting monocytes, *Molecules* 23 (2018) 2786.
53. Illa-Tuset S., D.C. Malaspina, J. Faraudo, Coarse-grained molecular dynamics simulation on the interface behavior and self-assembly of CTAB cationic surfactants, *Physical Chemistry Chemical Physics* 20(41) (2018) 26422–26430.
54. Kanoje B., A. Jangir, D. Patel, D. Ray, V. Aswal, H. Pal, J. Parikh, K. Kuperkar, Micellar transition (ellipsoidal to ULV) induced in aqueous Gemini surfactant (12-2-12) solution as a function of additive concentration and temperature using experimental and theoretical study, *Colloids and Surfaces A* 555 (2018) 227–236.
55. Liu R., M. Liu, D. Hood, C.-Y. Chen, C.J. MacNevin, D. Holten, J.S. Lindsey, Chlorophyll-inspired red-region fluorophores: Building block synthesis and studies in aqueous media. *Molecules* 23(1) (2018) 130.
56. Mchedlov-Petrosian N.O., V.S. Farafonov, A.V. Lebedev, Examining surfactant micelles via acid-base indicators: Revisiting the pioneering Hartley–Roe 1940 study by molecular dynamics modeling, *Journal of Molecular Liquids* 264 (2018) 683–690.
57. Movchan T.G., A.I. Rusanov, E.V. Plotnikova, Calculation aspects of diffusion coefficients in micellar solutions of ionic surfactants, *Colloid Journal* 80(6) (2018) 660–666.
58. Niroobakhsh Z., A. Belmonte, Dynamics of a reactive micellar oil-water interface in a flowing liquid column, *Journal of Non-Newtonian Fluid Mechanics* 261 (2018) 111–122.
59. Rusanov A., Toward a theory of diffusion of a nonionic surfactant with variable aggregation number in a micellar system, *Colloid Journal* 80(1) (2018) 81–85.
60. Rusanov A.I., Theory of surfactant diffusion in micellar systems with variable aggregation numbers, *Colloids and Surfaces A* 551 (2018) 158–164.
61. Rusanov A.I., On the location of CMC and maximum concentration of surface-active ions according to the theory of micellar solutions, *Colloid Journal* 80(6) (2018) 691–697.
62. Yilixiati S., R. Rafiq, Y. Zhang, V. Sharma, Influence of salt on supramolecular structural forces and stratification in micellar freestanding films, *ACS Nano* 12(2) (2018) 1050–1061.
63. Фарафонов В.С., Локалізація та гідратація органічних барвників в міцелах поверхнево-активних речовин за даними молекулярно-динамічного моделювання, Дисертация, Харків, 2018.
64. Beltran F., A.V. Vela-Gonzalez, T. Knaub, M. Schmutz, M.P. Krafft, L. Miesch, Surfactant micelles enable metal-free spirocyclization of keto-ynamides and access to aza-spiro scaffolds in aqueous media, *European Journal of Organic Chemistry* 41 (2019) 6989–6993.
65. El-Salamony R.S., M.Z. Abd-Elaziz, R.E. Morsi, A.M. Al-Sabagh, S.S.M. Hassan, Preparation and characterization of rutile titania nanofluids stabilized in different surfactants base fluids, *Nanoscience & Nanotechnology – Asia* 9 (2019).
66. Eslami H., M. Khani, F. Muller-Plathe, Gaussian charge distribution for incorporation of electrostatic interactions in dissipative particle dynamics: Application to self-assembly of surfactants, *Journal of Chemical Theory and Computation* 15 (2019) 4197–4207.
67. Ludwig M., M.U. Witt, R. von Klitzing, Bridging the gap between two different scaling laws for structuring of liquids under geometrical confinement, *Advances in Colloid and Interface Science* 269 (2019) 270–276.
68. Tatikolov A.S., P.G. Pronkin, I.G. Panova, Spectral-fluorescence study of the interaction of polymethine dye probes with biological surfactants-bile salt, *Spectrochimica Acta A* 216 (2019) 190–201.
69. Yilixiati S., E. Wojcik, Y. Zhang, V. Sharma, Spinodal stratification in ultrathin micellar foam films, *Molecular Systems Design and Engineering* 4(3) (2019) 626–638.
70. El-Salamoni R.A., M.Z. Abd-Elaziz, R.E. Morsi, A.M. Al-Sabagh, S.S.M. Hasan, Preparation and characterization of rutile titania nanofluids stabilized in different surfactants base fluids, *Nanoscience and Nanotechnology – Asia* 10 (2020) 682–695.
71. Hafidi Z., M. Ait Taleb, A. Amedlous, M. El Achouri, Micellar catalysis strategy of cross-condensation Reaction: The effect of polar heads on the catalytic properties of aminoalcohol-based surfactants, *Catalysis Letters* 150 (2020) 1309–1324.
72. Ludwig M., R. von Klitzing, Recent progress in measurements of oscillatory forces and liquid properties under confinement, *Current Opinion in Colloid and Interface Science* 47 (2020) 137–152.



73. Peroukidis S.D., D.G. Tsalikis, M.G. Noro, I.P. Stott, V.G. Mavrantzas, Quantitative prediction of the structure and viscosity of aqueous micellar solutions of ionic surfactants: A combined approach based on coarse-grained MARTINI simulations followed by reverse-mapped all-atom molecular dynamics simulations, *Journal of Chemical Theory and Computation* 16 (2020) 3363–3372.
74. Petricaroli S., J. Herzberger, Y. Sun, J.D. Nickels, R.P. Murphy, K. Weigandt, P.J. Ray, Multiscale microstructure, composition, and stability of surfactant/polymer foams, *Langmuir* 36 (2020) 14763–14771.
75. Ravani A., A. Shukla, N.V. Sastry, D.O. Shah, M.K. Mishra, Micellar catalyzed hydroxylation of 1,2,3-trichloro-4,6-dinitrobenzene: Role of cationic head group– $\pi$  interaction, *Journal of Molecular Liquids* 301 (2020) 112429.
76. Turchi M., A.A. Kognole, A. Kumar, Q. Cai, G. Lian, A.D. Mackerell, Predicting partition coefficients of neutral and charged solutes in the mixed SLES-fatty acid micellar system, *Journal of Physical Chemistry B* 124 (2020) 1653–1664.
77. Vinarov Z., G. Gancheva, N. Burdzhiev, S. Tcholakova, Solubilization of itraconazole by surfactants and phospholipid-surfactant mixtures: interplay of amphiphile structure, pH and electrostatic interactions, *Journal of Drug Delivery Science and Technology* 57 (2020) 101688.
78. Zhou Y., X. Yang, J. Zhang, Effects of head groups on the aggregation behavior of lauryl monoglucoside sulfosuccinates in aqueous solution, *Journal of Surfactants and Detergents* 23 (2020) 177–186.
79. Andrieux S., P. Muller, M. Kaushal, N.S. Macias Vera, R. Bollache, C. Honorez, A. Cagna, W. Drenckhan, Microfluidic thin film pressure balance for the study of complex thin films, *Lab on a Chip* 21 (2021) 412–420.
80. Davis C.R., Relating the formation mechanism and kinetic stability of complex shipboard emulsions to the physical and chemical properties of model surfactant-oil-water-salt systems, PhD Thesis, School of Material Engineering, Indiana, 2021.
81. Ferraro V. Z. Wang, L. Muccio, P.L. Maffettone, full-field and quantitative analysis of a thin liquid film at the nanoscale by combining digital holography and white light interferometry, *Journal of Physical Chemistry C* 125 (2021) 1075–1086.
82. Fujii S., J. Eichhorn, F.H. Schacher, J.C. Brendel, K. Sakurai, Polymer micelles composed of molecular-bottlebrush-based surfactants: Precisely controlling aggregation number corresponding to polyhedral structures, *Macromolecular Rapid Communications* 42 (2021) 2100285.
83. Kemal S.I., C.A. Urbide Ortiz, V. Sharma, Surface forces and stratification in foam films formed with bile salts, *Molecular Systems Design and Engineering* 6 (2021) 520–533.
84. Ludwig M., R. von Klitzing, Untangling superposed double layer and structural forces across confined nanoparticle suspensions, *Physical Chemistry Chemical Physics* 23 (2021) 1325–1334.
85. Ludwig M., Surface forces across colloidal dispersions, PhD Thesis, Darmstadt Technical University, Germany, 2021.
86. Ochoa C., C. Xu, C.D.V. Martinez Narvaez, W. Yang, Y. Zhang, V. Sharma, Drainage via stratification and nanoscopic thickness transitions of aqueous sodium naphthenate foam films, *Soft Matter* 17 (2021) 8915–8924.
87. Ochoa C., S. Gao, S. Srivastava, V. Sharma, Foam film stratification studies probe intermicellar interactions, *PNAS* 118 (2021) e2024805118.
88. Peroukidis S.D., D.G. Mintis, I. Stott, V.G. Mavrantzas, Molecular simulation of the morphology and viscosity of aqueous micellar solutions of sodium lauryl ether sulfate (SLEnS), *J. Phys. Materials* 4 (2021) 044001.
89. Rathod S., P. Bahadur, S. Tiwari, nanocarriers based on vitamin E-TPGS: Design principle and molecular insights into improving the efficacy of anticancer drugs, *International Journal of Pharmaceutics* 592 (2021) 120045.
90. Warchol J.K., P. Sobolewska, W. Tylus, R. Petrus, Fixed-bed modification of zeolitic tuffs and their application for Cr(VI) removal, *Materials* 14 (2021) 7061.
91. Abdous B., S.M. Sajjadi, A. Bagheri, Predicting the aggregation number of cationic surfactants based on ANN-QSAR modeling approaches: understanding the impact of molecular descriptors on aggregation numbers, *RSC Advances* 12 (2022) 33666–33678.
92. Abdous B., S.M. Sajjadi, A. Baghei, Determining the aggregation number of anionic surfactants based on conductivity method: Employing QSAR-ANN modelling techniques for predicting the aggregation number of surfactants, *Journal of Applied Chemistry* 17 (2022) 87–108.
93. Danino D., T. Zemb, On the shape and connections of micelles: electron microscopy imaging inspiring thermodynamic modelling, *Current Opinion in Colloid and Interface Science* 61 (2022) 101607.
94. Gao S., C. Ochoa, V. Sharma, S. Srivastava, Salt weakens intermicellar interactions and structuring in bulk solutions and foam films, *Langmuir* 38 (2022) 11003–11014.
95. Hendrikse R.L., A.E. Bayly, P.K. Jimack, Studying the structure of sodium lauryl ether sulfate solutions using dissipative particle dynamics, *Journal of Physical Chemistry B* 126 (2022) 8058–8071.

96. Perez-Sanchez G., N. Schaeffer, T.L. Greaves, J.F.B. Pereira, J.A.P. Coatinho, Tuning the ionic character of sodium dodecyl sulphate via counter-ion binding: An experimental and computational study, *Frontiers in Materials* 9 (2022) 1011164/
  97. Peroukidis S.D., I.P. Stott, V.G. Mavrantzas, Coarse-grained model incorporating short- and long-range effective potentials for the fast simulation of micelle formation in solutions of ionic surfactants, *Journal of Physial Chemistry B* 126 (2022) 5555–5569.
  98. Turchi M., A.P. Karcz, M.P. Andersson, First-principles prediction of critical micellar concentrations for ionic and nonioinic surfactants, *Journal of Colloid and Interface Science* 606 (2022) 618–627.
  99. Berntsson E., F. Vosough, A. Noormagi, K. Padari, F. Asplund, M. Gielnik, S. Paul, J. Jarvet, V. Tougu, P.M. Roos, M. Kozak, A. Graslund, Characterization of Uranyl (UO<sub>2</sub><sup>2+</sup>) Ion Binding to Amyloid Beta (A $\beta$ ) Peptides: Effects on A $\beta$  Structure and Aggregation, *ACS Chemical Neuroscience* 14 (2023) 2618–2633.
  100. Farafonov V.S., A.V. Lebed, D.A. Nerukh, N.O. Mchedlov-Petrosyan, Estimation of Nanoparticle's Surface Electrostatic Potential in Solution Using Acid-Base Molecular Probes I: In Silico Implementation for Surfactant Micelles, *Journal of Physical Chemistry B* 127 (2023) 1022–1030.
  101. Hasan L., C. Xu, M. Boehm, S.K. Baier, V. Sharma, Ultrathin Micellar Foam Films of Sodium Caseinate Protein Solutions, *Langmuir* 39 (2023) 6102–6112.
  102. Jung H.-N.-R., H. Choi, S.-H. Kim, W.K. Jung, H.-H. Park, The effect of surfactant type and concentration on the pore structure of alumina aerogels, *Journal of Non-Crystalline Solids* 610 (2023) 122325.
  103. Karimi S., A. Abiri, M. Shfiee, Hydrodynamic study of a rising bubble in the presence of cetyltrimethylammonium bromide surfactant, *Iran. J. Chem. Chem. Engineering* 42 (2023) 486–499.
  104. Perez-Sanchez G., F.M. Costa, G.M.C. Silva, M.M. Pineiro, J.A.P. Coutinho, Coarse-grain molecular dynamics simulation framework to unravel the interactions of surfactants on silica surfaces for oil recovery, *Colloids and Surafes A* 670 (2023) 131583.
  105. Sun L., X.-H. Sun, Y.-C. Zhang, J. Xin, H.-Y. Sun, Y.-B. Li, W.-F. Pen, J.-Y. Tang, B. Wei, Stability of high-salinity-enhanced foam: Surface behavior and thin-film drainage, *Petroleum Science* 20 (2023) 2343–2353.
  106. Xu C., C.D.V. Martinez Narvaez, P. Kotwis, V. Sharma, Polymer-Surfactant Complexes Impact the Stratification and Nanotopography of Micellar Foam Films, *Langmuir* 39 (2023) 5761–5770.
  107. Silva L.L., I.W. Zapelini, D. Cardoso, Influence of CTA-MCM-41 Synthesis Basicity on the Catalytic Transesterification Stability, *Silicon* 16 (2024) 765–773.
  108. Abdelsalam D.H.A., R. Yamakita, T. Aoki, Structures and Antibacterial Properties of DNA Ion Complex Films Consisting of Different Cationic Surfactants with the Same Carbon Number in Their Tails, *Journal of Fiber Science and Technology* 80 (2024) 50–63.
- 164 K.D. Danov, G. Radulova, P. Kralchevsky, K. Golemanov, S. Stoyanov, Surface shear rheology of hydrophobin adsorption layers: laws of viscoelastic behavior with applications to long-term foam stability, *Faraday Discuss* 158 (2012) 195–221. (брой: 22)**
1. Erni P., A. Parker, Nonlinear viscoelasticity and shear localization at complex fluid interfaces, *Langmuir* 28(20) (2012) 7757–7767.
  2. Dan A., G. Gochev, J. Kragel, E.V. Aksenenko, V.B. Fainerman, R. Miller, Interfacial rheology of mixed layers of food proteins and surfactants, *Current Opinion in Colloid and Interface Science* 18(4) (2013) 302–310.
  3. Karbashi M., M. Lotfi, J. Kragel, A. Javadi, D. Bastani, R. Miller, Rheology of interfacial layers, *Current Opinion in Colloid and Interface Science* 19(6) (2014) 514–519.
  4. Mendoza A.J., E. Guzman, F. Martinez-Pedrero, H. Ritacco, R.G. Rubio, F. Ortega, V.M. Starov, R. Miller, Particle laden fluid interfaces: dynamics and interfacial rheology, *Advances in Colloid and Interface Science* 206 (2014) 303–319.
  5. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междуфазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
  6. Dickinson E., Colloids in food: ingredients, structure, and stability, *Annula Review of Food Science and Technology* 6 (2015) 211–233.
  7. Ettelaie R., B.S. Murray, Evolution of bubble size distribution in particle stabillised dispersion: Competition between particle adsorption and dissolution kinetics, *Colloids and Surfaces A* 475(1) (2015) 27–36.
  8. Khalesi M., K. Gebruers, G. Derdelincka, Recent afvances in fungal hydrophobin towards using in industry, *Protein Journal* 34(4) (2015) 243–255.
  9. Tucker I.M., J.T. Petkov, J. Penfold, R.K. Thomas, A.R. Cox, N. Hedges, Adsorption of hydrophobin-protein mixtures at the air-water interface: The impact of pH and electrolyte, *Langmuir* 31(36) (2015) 10008–10016.
  10. Dickinson E., Exploring the frontiers of colloidal behavior where polymers and particles meet, *Food Hydrocolloids* 52 (2016) 497–509.
  11. Chen H., L. Zhang, J. Chen, M. Becton, X. Wang, H. Nie, Effect of CNT length and structural density on viscoelasticity of buckypaper: A coarse-grained molecular dynamics study, *Carbon* 109 (2016) 19–29.

12. Chen Min, The role of casein micelles and their aggregates in foam stabilization, PhD Thesis, Wageningen University, 2016.
  13. Richter M.J., A. Schulz, T. Subkowski, A. Böker, Adsorption and rheological behaviour of an aphiphilic protein at oil/water interfaces, *Journal of Colloid and Interface Science* 479 (2016) 199–206.
  14. Hennig S., Utilization of yeast pheromones and hydrophobin-based surface engineering for novel whole-cell sensor applications, PhD Thesis, Dresden Technical University, 2017.
  15. Dickinson E., On the road to understanding and control of creaminess perception in food colloids, *Food Hydrocolloids* 77 (2018) 372–385.
  16. Lo B., Hydrophobins: Biological application and fungal properties, PhD Thesis, Department of Pharmacology, Sidney University, 2018.
  17. Feng J., X. Zhang, C. Zhao, M. Chen, Andvamces in protein-polysaccharide interaction at oil-water interface of emulsion, *Bulletin of Fermentation Science and Technology*, 48(1) (2019) 14–18.
  18. Klein C.O., A. Theodoratou, P.A. Ruhs, U. Jonas, B. Loppinet, M. Wilhelm, P. Fischer, J. Vermant, D. Vlassopoulos, Interfacial Fourier transform shear rheometry of complex fluid interfaces, *Rheologica Acta* 58 (2019) 29–45.
  19. Langevin D., *Emulsions, Microemulsions and Foams*, Springer, 2020.
  20. Van Wees S.R., S.A. Rankin, R.W. Hartel, Shrinkage in frozen desserts, *Comprehensive Review in Food Science and Food Safety* 21 (2022) 780–808.
  21. Siddiquee R., V. Lo, C.L. Johnston, A.W. Buffier, S.R. Ball, J.L. Ciofani, Y.C. Zheng, M. Mahjoub, W. Chrzanowski, S. Rezvani-Baboli, L. Brown, C.L.L. Pham, Surface-Induced Hydrophobin Assemblies with Versatile Properties and Distinct Underlying Structures, *Biomacromolecules* 24 (2023) 4783–4797.
  22. Zhang W., L. Chen, J. Chen, L. Jiang, W.-H. Su, K. Yu, H. Zhang, Synergy between hydrophilic silica nanoparticles and poly(vinylpyrrolidone) for long-term foam stabilization with little energy input, *Journal of Molecular Liquids* 383 (2023) 122049.
- 163 N.A. Alexandrov, K.G. Marinova, T.D. Gurkov, K.D. Danov, P.A. Kralchevsky, S.D. Stoyanov, T.B.J. Blijdenstein, L.N. Arnaudov, E.G. Pelan. A. Lips, Interfacial layers from the protein HFBII hydrophobin: dynamic surface tension, dilatational elasticity and relaxation times, *J. Colloid Interface Sci.* 376 (2012) 296–306. (брой: 67)**
1. Aumaitre E., S. Knoche, P. Cicuta, D. Vella, Wrinkling in the deflation of elastic bubbles, *European Physical Journal E* 36(3) (2013) 22.
  2. Balashev K., Atomic force microscopy (AFM) with applications spanning from nanoscale (bio)catalysis and characterization of molecularly ordered nanostructures to molecular biology, DSc Thesis, Sofia University, 2013.
  3. Bramanti E., K.J. Skogerboe, R.E. Synovec, Chemical analysis in a drop: a dynamic surface tension detector for polymer and protein characterization, *Polymer International* 62(8) (2013) 1135–1143.
  4. Deckers S., Modeling and biophysical characterization of the primary gushing mechanism in beer, PhD Thesis, KU Leuven, The Holland, 2013.
  5. Green A.J., K.S. Littlejohn, P. Hooley, P.W. Cox, Formation and stability of food foams and aerated emulsions: hydrphobins as novel functional ingredients, *Current Opinion in Colloid and Interface Science* 18(4) (2013) 292–301.
  6. Knoche P., D. Vella, E. Aumaitre, P. Degen, H. Rehage, P. Cicuta, J. Kierfeld, Elastometry of deflated capsules: elastic moduli from shape amd wrinkle analysis, *Langmuir* 29(40) (2013) 12463–12471.
  7. Verwijlen T., P. Moldenaers, J. Vermant, A fixture for interfacial dilatational rheometry using a rotational rheometer, *European Physical Journal: Special Topics* 222(1) (2013) 83–97.
  8. Burke J., Cox A., Petkov J., Murray B.S., Interfacial rheology and stability of air bubbles stabilized by mixtures of hydrophobin and  $\beta$ -casein, *Food Hydrocolloids* 34 (2014) 119–127.
  9. Bykov A.G., B.A. Noskov, G. Loglio, V.V. Lyadinskaya, R. Miller, dilatational surface elasticity of spread monolayers of polystyrene microparticles, *Soft Matter* 10 (2014) 6499–6505.
  10. Karbashi M., M. Lotfi, J. Kragel, A. Javadi, D. Bastani, R. Miller, Rheology of interfacial layers, *Current Opinion in Colloid and Interface Science* 19(6) (2014) 514–519.
  11. Knoche S., Instabilities and shape analyses of elastic shells, PhD Thesis, TU Dortmund University, 2014.
  12. Mendoza A.J., E. Guzman, F. Martinez-Pedrero, H. Ritacco, R.G. Rubio, F. Ortega, V.M. Starov, R. Miller, Particle laden fluid interfaces: dynamics and interfacial rheology, *Advances in Colloid and Interface Science* 206 (2014) 303–319.
  13. Ou S.C., Ion specificity: from air-water interface to the free energetics of hydrophobic association, PhD Thesis, Delaware University, 2014.
  14. Yuan W., E. J. Laprade, K. J. Henderson, K. R. Shull, Formation and mechanical characterization of ionically crosslinked membranes at oil-water interface, *Soft Matter* 10(8) (2014) 1142–1150.

15. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междуфазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
16. Bromley K.M., R.J. Morris, L. Hobley, G. Brandani, R.M.C. Gillespie, M. McCluskey, U. Zachariae, D. Marenduzzo, N.R. Stanley-Wall, C.E. MacPhee, Interfacial self-assembly of a bacterial hydrophobin, *PNAS* 112(17) (2015) 5419–5424.
17. Dickinson E., Colloids in food: ingredients, structure, and stability, *Annual Review of Food Science and Technology* 6 (2015) 211–233.
18. Khalesi M., K. Gebruers, G. Derdelincka, Recent advances in fungal hydrophobin towards using in industry, *Protein Journal* 34(4) (2015) 243–255.
19. Riveros D.G., Shokribousjein Z., Losada-Perez P., Khalesi M.R., Cordova K., Michiels C., Delcour J.A., Verachtert H. Wagner P., Derdelinckx G., Comparison of structure, sequence, physical interactions and its effects on primary gushing among several class II hydrophobins, *Brewing Science* 68(3-4) (2015) 38–45.
20. Balemans C., M.A. Hulsen, P.D. Anderson, Modeling of complex interfaces for pendant drop experiments, *Rheologica Acta* 55(10) (2016) 801–822.
21. Cholakova D., N. Denkov, S. Tcholakova, I. Lesov, S.K. Smoukov, Control of drop shape transformations in cooled emulsions, *Advances in Colloid and Interface Science* 235 (2016) 90–107.
22. Dickinson E., Exploring the frontiers of colloidal behavior where polymers and particles meet, *Food Hydrocolloids* 52 (2016) 497–509.
23. Gazzera L., R. Milani, L. Pirrie, M. Schmutz, C. Blank, G. Resnati, P. Metrangolo, M.P. Krafft, Design of highly stable echogenic microbubbles through controlled assembly of their hydrophobin shell, *Angewandte Chemie* 128(35) (2016) 10419–10423.
24. Kirbi S.M., X. Zhang, P.S. Russo, S. Anna, L.M. Walker, Formation of a rigid hydrophobin film and disruption by an anionic surfactant at an air/water interface, *Langmuir* 32(22) (2016) 5542–5551.
25. Kumar C., P. Viswanath, Dilatation rheology studies on a semicrystalline ferroelectric copolymer at the air-water interface, *RSC Advances* 6(20) (2016) 16673–16678.
26. Morris R.J., K.M. Bromley, N. Stanley-Wall, C.E. MacPhee, A phenomenological description of BsIA assemblies across multiple length scales, *Philosophical Transactions of the Royal Society A* 374(2072) (2016) Art, No. 20150131.
27. Richter M.J., A. Schulz, T. Subkowski, A. Böker, Adsorption and rheological behaviour of an amphiphilic protein at oil/water interfaces, *Journal of Colloid and Interface Science* 479 (2016) 199–206.
28. Shutova Y., B.L. Karna, A.C. Hambdy, B. Lau, R.K. Henderson, P. Le-Clech, Enhancing organic matter removal in desalination pretreatment systems by application of dissolved air flotation, *Desalination* 383 (2016) 12–21.
29. Радупова Г.М., Повърхностна реология на адсорбционни слоеве от протеина хидрофобин и от негови смеси с други протеини: експеримент и теоретичен модел, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2016.
30. Bakhshi N., S. Soleimani-Zad, M. Sheikh-Zeinoddin, Dynamic surface tension measurements for the screening of biosurfactants produced by *Lactobacillus plantarum* subsp. *plantarum* PTCC1896, *Enzyme and Microbial Technology* 101 (2017) 1–8.
31. Charan H., U. Glebe, D. Anand, J. Kinzel, L. Zhu, M. Bocola, T.M. Garakani, U. Schwaneberg, A. Boker, Nano-thin walled micro-compartments from transmembrane protein-polymer conjugates, *Soft Matter* 13(15) (2017) 2866–2875.
32. Chen D., Z. Sun, T.P. Russell, L. Jin, Coassembly kinetics of graphene oxide and block copolymers at the water/oil interface, *Langmuir* 33(36) (2017) 8961–8969.
33. Hennig S., Utilization of yeast pheromones and hydrophobin-based surface engineering for novel whole-cell sensor applications, PhD Thesis, Dresden Technical University, 2017.
34. Koepf E., R. Schroeder, G. Brezesinski, W. Friess, The film tells the story: Physical-chemical characteristics of IgG at the liquid-air interface, *European Journal of Pharmaceutics and Biopharmaceutics* 119 (2017) 396–407.
35. MacPhee C., N. Stanley-wall, K. Bromley, R. Morris, L. Hobley, Synthetic multiphase systems, US Patent 20170267730.
36. Morris R.J., M. Schor, R.M.C. Gillespie, A.S. Ferreira, L. Baldauf, C. Earl, A. Ostrowskii, L. Hobley, K.M. Bromley, T. Sukhodoub, S. Amaoteli, N.R. Stanley-Wall, C.E. MacPhee, Natural variations in the biofilm-associated protein BsIA from the genus *Bacillus*, *Scientific Reports* 7 (2017) 6730.
37. Nagel M., T.A. Tervoort, J. Vermant, From drop-shape analysis to stress-fitting elastometry, *Advances in Colloid and Interface Science* 247 (2017) 33–51.
38. Papicelli M., Complex fluid-fluid interfaces: the interplay between interfacial tension and viscoelasticity, PhD Thesis, ETH Zurich, 2017.
39. Politova N., S. Tcholakova, N.D. Denkov, Factors affecting the stability of water-oil-water emulsion films, *Colloids Surfaces A* 522 (2017) 608–620.



40. Blesik M., V. Dichirante, R. Milani, M. Linder, P. Metrangolo, Evaluating the potential of natural surfactants in the petroleum industry: The case of hydrophobins, *Pure and Applied Chemistry* 90 (2018) 305–314.
41. Hahl H., J.N. Vargas, M. Jung, A. Griffo, P. Laaksonen, M. Lienemann, K. Jacobs, R. Seemann, J.-N. Fleury, Adhesion properties of freestanding hydrophobin bilayers, *Langmuir* 34 (2018) 8542–8549.
42. Hegemann J., S. Knoche, S. Egger, M. Kott, S. Demand, A. Unverfehrt, H. Rehage, J. Kierfeld, Pendant capsule elastometry, *Journal of Colloid and Interface Science* 513 (2018) 549–565.
43. Linke C., Strategies to increase turbidity in baverage emulsions, PhD Thesis, Technical University Berlin, 2018.
44. Zhang X., S.M. Kirby, Y. Chen, S.L. Anna, L.M. Walker, F.R. Hung, P.S. Russo, Formation and elasticity of membranes of the class II hydrophobin Cerato-ulmin at oil-water interface, *Colloids and Surfaces B* 164 (2018) 98–106.
45. Forth J., P.Y. Kim, G. Xie, X. Liu, B.A. Helms, T.P. Russell, Biding reconfigurable devices using complex liquid-fluid interfaces, *Advanced Materials* 31 (2019) 1806370.
46. Li T., K. Lilja, R.J. Momis, G.B. Brandani, Langmuir-Blodgett technique for anisotropic colloids: Young investigator perspective, *Journal of Colloid and Interface Science* 540 (2019) 420–438.
47. Mancipe N.C., Design and production of high-performance hydrophobin surfactant proteins using a dual-domain fusion strategy, PhD Thesis, Minnesota University, 2019.
48. Pepicelli M., N. Jaensson, C. Tregouet, B. Schroyen, A. Aliche, T. Tervoort, C. Monteux, J. Vermant, Surface viscoelasticity in model polymer multilayers: From planar interfaces to rising bubbles, *Journal of Rheology* 63 (2019) 815–828.
49. Zhang X., B. Blalock, W. Huberty, Y. Chen, F. Hung, P.S. Russo, Microbubbles and oil droplets stabilized by a class II hydrophobin in marinelike environments, *Langmuir* 35 (2019) 4380–4386.
50. Chang H.J., H. Choi, S. Na, Predicting the self-assembly film structure of class II hydrophobin NC2 and estimating its structural characteristics, *Colloids and Surfaces B* 195 (2020) 111269.
51. Langevin D., *Emulsions, Microemulsions and Foams*, Springer, 2020.
52. Malakhova Y.N., A.A. Stupnikov, V.P. Chekusova, N.M. Kuznezov, S.I. Belousov, Rheological behavior of polydimethylsiloxane Langmuir layers at the air-water interface, *BioNano Science* 10 (2020) 403–408.
53. Simon S., J. Ruwoldt, J. Soblom, A critical update of experimental techniques of bulk and interfacial components for fluid characterization with relevance to well fluid processing and transport, *Advances in Colloid and Interface Science* 277 (2020) 102120.
54. Zhang Y., F. Zhou, P. Shen, Q. Zhao, M. Zhao, Influence of thermal treatment on oil-water interfacial properties and emulsion stabilization prepared by sono-assembled soy peptide nanoparticles, *Food Hydrocolloids* 103 (2020) 105646.
55. Fernandes Soares I., M.C.K. de Oliveira, M. Feijo Naccache, M. Nele, Effects of monovalent and divalent cations on the rheology of organic acid laden interfaces, *Journal of Dispersion Science and Technology* (2021) .
56. Tsibranska S., A. Ivanova, S. Tcholakova, N. Denkov, Structure and undulations of escin adsorption layer at water surface studied by molecular dynamics, *Molecules* 26 (2021) 6856.
57. Czakaj A., E. Chatziginakis, J. Vermant, M. Krzan, P. Warszynski, The influence of the surface chemistry of cellulose nanocrystals on ethyl lauroyl arginate foam stability, *Polymers* 14 (2022) 5402.
58. Guzman E., A. Mestro, C. Carbone, F. Ortega, R.G. Rubio, Dilatational rheology of fluid/fluid interfaces: Foundations and tools, *Fluids* 7 (2022) 335.
59. Mustan F., N. Politova-Brinkova, Z. Vinarov, D. Rossetti, P. Rayment, S. Tcholakova, Interplay between bulk aggregates, surface properties and foam stability of nonionic surfactants, *Advances in Colloid and Interface Science* 302 (2022) 102618.
60. Romero-Arias J.R., A.S. Luviano, M. Costas, A. Hernandez-Machado, R.A. Barrio, Dynamical shapes of droplets of cyclodextrin-surfactant solutions, *Scientific Reports* 12 (2022) 5252.
61. Tseng W.-C., R.-Y. Tsay, T.T.-Y. Le, S. Hussain, B.A. Noskov, A. Akentiev, H.-H. Yeh, S.-Y. Lin, Evaluation of the dilatational modulus of protein films by pendant bubble tensiometry, *Journal of Molecular Liquids* 349 (2022) 118113.
62. Alexandris S., D. Ashkenazi, J. Vermant, D. Vlassopoulos, M. Gottlieb, Interfacial shear rheology of glassy polymers at liquid interfaces, *Journal of Rheology* 67 (2023) 1047–1060.
63. Cai Z., Y. Wei, A. Shi, J. Zhong, P. Rao, Q. Wang, H. Zhang, Correlation between interfacial layer properties and physical stability of food emulsions: current trends, challenges, strategies, and further perspectives, *Advances in Colloid and Interface Science* 313 (2023) 102863.
64. Dobson S., E. Pensini, J.H. Dupuis, R.Y. Yada, A.G. Marangoni, Synergistic interaction between pea protein isolate and rapid-swelling starch, *Food Hydrocolloids* 142 (2023) 108753.
65. Faucon C., P. Chaliier, C. Sanchez, Natural hyperbranched biopolymer at liquid interfaces differing in oil–water interaction energy, *Journal of Molecular Liquids* 384 (2023) 122175.

66. Fernandes Soares I., M.C.K. de Oliveira, M. Feijo Naccache, M. Nele, Effects of monovalent and divalent cations on the rheology of organic acid laden interfaces, *Jornal of Dispersion Science and Technology* 44 (2023) 1389–1401.
  67. Krstonosic V., N. Pavlovic, D. Cirin, Principles and application of interfacial rheology in (pre)formulation development of pharmaceutical preparations, *Arh. Farm.* 73 (2023) 337–357.
- 162 G.M. Radulova, K. Golemanov, K.D. Danov, P.A. Kralchevsky, S.D. Stoyanov, L.N. Arnaudov, T.B.J. Blijdenstein, E.G. Pelan. A. Lips, Surface shear rheology of adsorption layers from the protein HFBII hydrophobin: effect of added  $\beta$ -casein, *Langmuir* 28 (2012) 4168–4177. (брой: 19)**
1. Wang Y., C. Bouillon, A. Cox, E. Dickinson, K. Durga, B.S. Murray, R. Xu, Interfacial study of class II hydrophobin and its mixtures with milk proteins: relationship to bubble stability, *Journal of Agricultural and Food Chemistry* 61(7) (2013) 1554–1562.
  2. Burke J., Cox A., Petkov J., Murray B.S., Interfacial rheology and stability of air bubbles stabilized by mixtures of hydrophobin and  $\beta$ -casein, *Food Hydrocolloids* 34 (2014) 119–127.
  3. Ettelaie R., B. Murray, Effect of particle adsorption rates on the disproportionation process in pickering stabilised bubbles, *Journal of Chemical Physics*, 140(20) (2014) 204713.
  4. Sjoblom J., S. Simon, Z. Xu, The chemistry of tetrameric acids in petroleum, *Adv. Colloid Interface Sci.* 205 (2014) 319–338.
  5. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междуфазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
  6. Dickinson E., Colloids in food: ingredients, structure, and stability, *Annula Review of Food Science and Technology* 6 (2015) 211–233.
  7. Khalesi M., K. Gebruers, G. Derdelincka, Recent advances in fungal hydrophobin towards using in industry, *Protein Journal* 34(4) (2015) 243–255.
  8. Simon S., S. Subramanian, B. Gao, J. Sioblom, Interfacial shear rheology of gels formed at the oil/water interface by tetrameric acid and calcium ion: Influence of tetrameric acid structure and oil composition, *Industrial and Engineering Chemistry Research* 54(35) (2015) 8713–8722.
  9. Tucker I.M., J.T. Petkov, J. Penfold, R.K. Thomas, A.R. Cox, N. Hedges, Adsorption of hydrophobin-protein mixtures at the air-water interface: The impact of pH and electrolyte, *Langmuir* 31(36) (2015) 10008–10016.
  10. Li W., Y. Wang, H. Zhao, Z. He, M. Zeng, F. Qin, J. Chen, Improvement of emulsification properties of soy protein through selective hydrolysis: Interfacial shear rheology of adsorption layer, *Food Hydrocolloids* 60 (2016) 453–460.
  11. Richter M.J., A. Schulz, T. Subkowski, A. Böker, Adsorption and rheological behaviour of an aphilic protein at oil/water interfaces, *Journal of Colloid and Interface Science* 479 (2016) 199–206.
  12. Tucker I.M., J.T. Petkov, J. Penfold, R.K. Thomas, A.R. Cox, N. Hedges, Adsorption of hydrophobin/ $\beta$ -casein mixtures at the solid-liquid interface, *Journal of Colloid and Interface Science* 478 (2016) 81–87.
  13. Hennig S., Utilization of yeast pheromones and hydrophobin-based surface engineering for novel whole-cell sensor applications, PhD Thesis, Dresden Technical University, 2017.
  14. Goralchuk A., O. Grinchenko, O. Riabets, O. Kotlyar, Food dispersion systems process stabilization. A review, *Ukrainian Food Journal* 8 (2019) 699–732.
  15. Oliveira C.M. et al., Hydrophobin-stabilized nanoemulsion produced by a low-energy emulsification process: A promising carrier for nutraceuticals, *Food Hydrocolloids* 89 (2019) 740–757.
  16. Penfold J., R.K. Thomas, Adsorption properties of plant based bio-surfactant: Insights from neutron scattering techniques, *Advances in Colloid and Interface Science* 274 (2019) 102041.
  17. Pepicelli M., N. Jaensson, C. Tregouet, B. Schroyen, A. Aliche, T. Tervoort, C. Monteux, J. Vermant, Surface viscoelasticity in model polymer multilayers: From planar interfaces to rising bubbles, *Journal of Rheology* 63 (2019) 815.
  18. Patel A.R., Functional and engineering colloids from edible materials for emerging applications in designing the food of the future, *Advanced Functional Materials* 30 (2020) 1806809.
  19. Tsibranska S., A. Ivanova, S. Tcholakova, N. Denkov, Structure and undulations of escin adsorption layer at water surface studied by molecular dynamics, *Molecules* 26 (2021) 6856.
- 161 K.D. Danov, P.A. Kralchevsky, The standard free energy of surfactant adsorption at air/water and oil/water interfaces: theoretical vs. empirical approaches, *Коллоидный журнал* 74(2) (2012) 187–200. (брой: 61)**
1. Wei Y., A.A. Thyparambil, R.A. Latour, Peptide-surface adsorption free energy comparing solution conditions ranging from low to medium salt concentrations, *ChemPhysChem* 13(17) (2012) 3782–3785.

2. Fainerman V.B., N. Mucic, V. Pradines, E.V. Aksenenko, R. Miller, Adsorption of alkyltrimethylammonium bromide at water/alkane interfaces: competitive adsorption of alkanes and surfactants, *Langmuir* 29(45) (2013) 13783–13789.
3. Morse J., A. Huang, G. Li, M.R. Maxey, J.X. Tang, Molecular adsorption steers bacterial swimming at the air/water interface, *Biophysical Journal* 105(1) (2013) 21–28.
4. Fainerman V.B., E.V. Aksenenko, N. Mucic, A. Javadi, R. Miller, Thermodynamics of adsorption of ionic surfactants at water/alkane interface, *Soft Matter* 10(36) (2014) 6873–6887.
5. Kamneva N.N., A.Y. Kharchenko, O.S. Bykova, A.V. Sundenko, N.O. Mchedlov-Petrosyan, The influence of 1-butanol and electrolytic background on the properties of CTAB micelles as examined using a set of indicator dyes, *Journal of Molecular Liquids* 199 (2014) 376–384.
6. Mchedlov-Petrosyan N.O., Adsorption of ionic surfactants on water/air interface: One more transformation of the Gibbs equation, *Surface Engineering and Applied Electrochemistry* 50(2) (2014) 173–182.
7. Onaizi S.A., M.S. Nasser, F. Twaiq, Adsorption and thermodynamics of biosurfactant, surfactin, monolayers at the air-buffered liquid interface, *Colloid and Polymer Science* 292(7) (2014) 1649–1656.
8. Yang C., H. Sun, Surface-bulk partition of surfactants predicted by molecular dynamics simulations, *J. Physical Chemistry B* 118 (2014) 10695–10703.
9. Bhaskar S., J. Gyu Park, G.H. Cho, S. Kim, I.J. Kim, Wet foam stability and tailoring microstructure of porous ceramics using polymer blends, *Advances in Applied Ceramics* 114(6) (2015) 333–337.
10. Bhaskar S., J.G. Park, I.S. Han, M.J. Lee, T.Y. Lim, I.J. Kim, Particle stabilized wet foam to prepare SiO<sub>2</sub>-SiC porous ceramics by colloidal processing, *Journal of the Korean Ceramic Society* 52(6) (2015) 455–461.
11. Fainerman V.B., R. Miller, E.V. Aksenenko, Thermodynamics of adsorption at liquid interfaces, *Computational Methods for Complex Liquid-Fluid Interfaces* (2015) 3–40.
12. Mandal B., S. Mondal, A. Pan, S.P. Moulik, S. Ghosh, Physicochemical study of the interaction of lysozyme with surface active ionic liquid 1-butyl-3-methylimidazolium octylsulfate [BMIM][OS] in aqueous and buffer media, *Colloids and Surfaces A* 484 (2015) 345–353.
13. Mucic N. A. Javadi, J. Kragel, M. Kabashi, E.V. Aksenenko, V.B. Fainerman, R. Miller, Thermodynamic models for the adsorption of alkyl trimethyl ammonium bromides at the water/hexane interface, *Colloid Process Engineering* (2015) 309–321.
14. Pan A., A.K. Rakshit, S.P. Moulik, Dwelling on the adsorption of surfactant at the air/water interface in relation to its states in the bulk: A comprehensive analysis, *Colloids Surfaces A* 464 (2015) 8–16.
15. Shen Z., H. Sun, Prediction of surface and bulk partition of non-ionic surfactants using free energy calculations, *Journal of Physical Chemistry B* 119(51) (2015) 15623–15630.
16. Захариев Ц.К., Извеждане на термодинамични параметри на нискомолекулни амфифилни вещества, Дисертация, ФХФ, СУ, 2015.
17. Bhaskar S., J.G. Park, M.J. Lee, T.Y. Lim, I.S. Han, I.J. Kim, ZrO<sub>2</sub>-TiO<sub>2</sub> porous ceramics from particle stabilized wet foam by colloidal processing, *Journal of the Ceramic Society of Japan* 124(1) (2016) 106–110.
18. Carrier O. E.H.G. Backus, N. Shahidzadeh, J. Franz, M. Wagner, Y. Nagata, M. Bonn, D. Bonn, Oppositely charged ions at water-air and water-oil interfaces: contrasting the molecular picture with thermodynamics, *Journal of Physical Chemistry Letters* 7(5) (2016) 825–830.
19. Fainerman V.B., R. Miller, E.V. Aksenenko, Thermodynamic of adsorption at liquid interfaces in: *Computational Methods for Complex Liquid-Fluid Interfaces*, M.T. Rahni and R. Miller, Eds., Vol 5. 3-40, 2016.
20. Jang W.Y., D.N. Seo, J.G. Park, H.T. Kim, S.M. Lee, S.Y. Kim, I.J. Kim, Highly-closed/-open porous ceramics with micro beads by direct foaming, *Journal of the Korean Ceramic Society* 53(6) (2016) 604–609.
21. Kharchenko A.Y., N.N. Kamneva, N.O. Mchedlov-Petrosyan, The properties and composition of the SDS-1-butanol mixed micelles as determined via acid-base indicators, *Colloids and Surfaces A* 507 (2016) 243–254.
22. Kharchenko A.Yu., Composition of the sodium dodecylsulfate-1-pentanol mixed micelles as determined using acid-base indicators, *Kharkov University Bulletin, Chemical Series* 27(50) (2016) 5–15.
23. Lanfranco R., F. Giavazzi, M. Salina, G. Tagliabue, E. Di Nicolo, T. Bellini, M. Buscaglia, Selective adsorption on fluorinated plastic enables the optical detection of molecular pollutants in water, *Physical Review Applied* 5(5) (2016) 054012.
24. Souilem S., W. Treesuwan, I. Kobayashi, N. Khalid, Z. Bouallagu, M.A. Neves, K. Uemura, H. Isoda, S. Sayadi, M. Nakajima, Simulation of oleuropein structural conformation in vacuum, water and triolein-water systems using molecular dynamics, *Food Research International* 88(A) (2016) 79–90.
25. Walz M.-M., J. Werner, V. Ekholm, N.L. Prisle, G. Ohrwall, O. Bjorneholm, Alcohols at the aqueous surface: Chain length and isomer effects, *Physical Chemistry Chemical Physics* 18(9) (2016) 6648–6656.
26. Zahariev T.K., A.V. Tadjer, A.N. Ivanova, Transfer of non-ionic surfactants across the water-oil interface: A molecular dynamic study, *Colloids and Surfaces A* 506 (2016) 20–31.
27. Aray Y., J.G. Parra, D.M. Jimenez, R. Paredes, A. Martiz, S. Samaniego, M. Cornejo, E.V. Ludena, C. Paredes, Exploring the effect of the O-(1-heptylnonyl) benzene sulfonate surfactant on the nature of the linear

- hydrocarbons/water interface by means of an atomistic molecular dynamics simulation, *Journal of Computational Methods in Science and Engineering* 17(1) (2017) 39–53.
28. Bizmark N., Ethyl cellulose nanoparticles in multiphase systems: foams; emulsions; porous media, PhD Thesis, University of Waterloo, Canada, 2017.
  29. Ghorbanizadeh S., B. Rostami, Surface and interfacial tension behavior of salt water containing dissolved amphiphilic compounds of crude oil: The role of single-salt ionic composition, *Energy and Fuels* 31(9) (2017) 9117–9124.
  30. Slavchov R., I.B. Ivanov, Adsorption parameters and phase behavior of non-ionic surfactants at liquid interfaces, *Soft Matter* 13(46) (2017) 8829–8848.
  31. Chandra A., J. Vera, W. Durnie, R. Woollam, Understanding the relationship between the corrosion inhibition adsorption and surfactant properties and micellization: Methodology, NACE- International Corrosion Conference Series April (2018) Code: 138812.
  32. Hamon J.J.W., The effect of random and controlled lateral confinement on surfactant adsorption, PhD Thesis, Oklahoma University, 2018.
  33. Kumar N., A. Mandal, Thermodynamic and physicochemical properties evaluation for formation and characterization of oil-in-water nanoemulsion, *Journal of Molecular Liquids* 266 (2018) 147–159.
  34. Mchedlov-Petrosyan N.O., The Davies equation of state of ionic surfactant adsorbed monolayer and related problems, *Colloids Surfaces A* 537 (2018) 325–333.
  35. Ali F.J., Abd H.K., N.T. Talib, N.H. Al-Chanimi, H.H. Tizkam, Adsorption of metronidazole benzoate from aqueous solution using pomegranate peel: A thermodynamic study, *Drug Invention Today* 11 (2019) 3037–3064.
  36. Banset B., Lim H.M., K.S. Lee, I.J. Kim, Effects of carbon fibers on mechanical behaviour of Al<sub>2</sub>O<sub>3</sub> porous ceramics, *Journal of the Korean Ceramic Society* 56(5) (2019) 513–520.
  37. Chandra A., J. Vera, W. Durnie, R. Woollam, Relationship between inhibitor adsorption and surfactant properties: Part II – Critical parameters, NACE – International Corrosion Conference Series (2019) 13245.
  38. Hamon J.J., A. Striolo, B.P. Grady, Osderiving the effect of temperature and surface roughness on cetyltrimethylammonium bromide adsorption using a quartz-crystal microbalance with dissipation monitoring, *Journal of Surfactants and Detergents* 22 (2019) 1201–1212.
  39. Kardos A., T. Gilanyi, I. Varga, How small can poly(N-isopropylavrylamide) nanogels be prepared by controlling the size with surfactants? *Journal of Colloid and Interface Science* 557 (2019) 703–806.
  40. Al Sabagh A.M., T.M. Abdel-Hamid, F.H. Abdel-Salam, M.R. Noor El-Din, A. Mohamed, Surface activity and thermodynamic properties of some green surfactants from wastes in formation water at reservoir conditions, *Journal of Dispersion Science and Technology* (2020).
  41. Jahan R., A.M. Bodratti, M. Tsianou, P. Alexandridis, Biosurfactants, natural alternatives to synthetic surfactants: Physicochemical properties and applications, *Advances Colloid Interface Science* 275 (2020) 102061.
  42. Zhao Y., M. Cieplak, Proteins at curved fluid-fluid interfaces in a coarse-grained model, *Journal of Physics Condensed Matter* 32 (2020) 404003.
  43. Zhong Q.-L., X.-L. Cao, Y.-W. Zhu, B.-D. Ma, Z.-X. Xu, L. Zhang, G.-Y. Ma, L. Zhang, Studies of interfacial tension of betaine and anioninc-nonionic surfactant mixed solutions, *Journal of Molecular Liquids* 311 (2020) 113262.
  44. Abu-Elseud M., A. Al-Ghamdi, S. Ayirala, A. Al-Sofi, Surface complexation modeling of smartwater synergy with EOR in carbonates, *Conference Proceedings, IOR 2021*, 1–16.
  45. Brusseau M.L., Examining the robustness and concentration dependency of PFAS air-water and NAPL-water interfacial adsorption coefficients, *Water Research* 190 (2021) 116778.
  46. Hinton Z.R., M.J. Alvarez, A molecular parameter to scale the Gibbs free energies of adsorption and micellization for nonionic surfactants, *Colloids Surfaces A* 609 (2021) 125622.
  47. Kumar G., A. Kakati, E. Mani, J.S. Sangwai, Stability of nanoparticle stabilized oil-in-water Pickering emulsion under high pressure and high temperature conditions: comparison with surfactant stabilized oil-in-water emulsion, *Journal of Dispersion Science and Technology* 42 (2021) 1204–1217.
  48. Liu C., J. Fang, X. Wen, Y. Tian, Y. Meng, Active control of boundary lubrication of ceramic tribo-pairs in sodium dodecyl sulfate aqueous solutions, *Tribology Letters* 69 (2021) 144.
  49. Al Sabagh A.M., T.M. Abdel-Hamid, F.H. Abdel-Salam, M.R. Noor El-Din, A. Mohamed, Surface activity and thermodynamic properties of some green surfactants from wastes in formation water at reservoir conditions, *Journal of Dispersion Science and Technology* 43 (2022) 385–398.
  50. Duggal H., Pickering emulsions stabilized by stimuli-responsive microgels: study of their stability, PhD Thesis, University Liege, 2022.
  51. Nguyen C.V., M. Peng, T. Duignan, A.V. Nguyen, Salting-up of surfactants at the surface of saline water as detected by tensiometry and SFG and supported by molecular dynamics simulation, *Journal of Physical Chemistry B* 126 (2022) 1063–1075.



52. Shaikh N., J.M. Andriolo, J.L. Skinner, R.A. Walker, Carbon nanoparticle-induced changes to lipid monolayer structure at water air interfaces, *Journal of Physical Chemistry B* 126 (2022) 5667–5677.
  53. Atsuta Y., K. Takeuchi, N. Shioda, W. Hamada, T. Hirai, Y. Nakamura, Y. Oaki, S. Fujii, Colloidally Stable Polypyrrole Nanoparticles Synthesized by Surfactant-Free Coupling Polymerization, *Langmuir* 39 (2023) 14984–14995.
  54. Blanco F.G., R. Machatschek, M. Keller, A.M. Hernandez-Arriaga, M.S. Godoy, N.A. Tarazona, M.A. Prieto, Nature-inspired material binding peptides with versatile polyester affinities and binding strengths, *International Journal of Biological Macromolecules* 253 (2023) 126760.
  55. Dhandhi Y., R. Kumar Saw, R. Singh, T.K. Naiya, Application of a novel surface-active green demulsifier for demulsification of field crude oil emulsion, *Separation Science and Technology* 58 (2023) 1654–1678.
  56. Rincon-Romero J.F., F. Rfos, A. Reyes-Requena, G. Luzon-Gonzales, A.I. Garcia-Lopez, Surface and thermodynamics properties of commercial fatty-alcohol ethoxylate surfactants, *Journal of Molecular Liquids* 376 (2023) 121396.
  57. Sakurai Y., R. Kakiuchi, M. Hayashi, T. Hirai, Y. Nakamura, S. Fujii, Shape design of aqueous bubbles stabilized with millimeter-sized polymer plates, *New Journal of Chemistry* 48 (2023) 31–35.
  58. Sakurai Y., R. Kakiuchi, T. Hirai, Y. Nakamura, S. Fujii, Aqueous Bubbles Stabilized with Millimeter-Sized Polymer Plates, *Langmuir* 39 (2023) 3800–3809.
  59. Przybyl P., M. Wojcieszak, D.K. Kaczmarek, D. Jankowski, K. Materna, A novel approach to mixed micelles formation: Study the interactions between bis-quaternary ammonium salts and nonionic surfactant Triton X-100, *Tenside, Surfactants, Detergents* 61 (2024) 1–9.
  60. Wojcieszak D.K. Kaczmarek, M. Karolak, L. Palkowski, A. Lewandowska, A. Marchikkowska, K. Dopierala, K. Materna, Surface-Active Ionic Liquids and Surface-Active Quaternary Ammonium Salts from Synthesis, Characterization to Antimicrobial Properties. *Molecules* 29 (2024) 443.
  61. Kunanopparatn A., M. Hayashi, Y. Atsuta, Y. Iwata, K. Yamamoto, K. Matsui, T. Hirai, Y. Nakamura, F. Unob, Imyim A., S. Fijii, pH-Responsive Liquid Marbles Stabilized with Chitosan-Stearic Acid-Conjugated Particles, *ACS Sustainable Chemistry and Engineering* 12 (2024) 4175–4185.
- 160 V.V. Kumar, K.D. Danov, F. Durst, Extended statistical rate theory for liquid evaporation, KONWIHR-Quartl 2 (2003) 14–19. (брой: 2)**
1. Fernandez M.M., Propellant tank pressurization modeling for a hybrid rocket, PhD Thesis, Department of Mechanical Engineering, Kate Gleason College of Engineering, Rochester Institute of Technology, NY, 2009.
  2. Muller H.C., Theoretische und praktische Untersuchung einer mehrstufigen solarthermischen Kleinanlage zur Meer- und Brackwasserentsalzung, PhD Thesis, Technischen Hochschule, Aachen, Germany, 2009.
- 159 S.S. Tzocheva, P.A. Kralchevsky, K.D. Danov, G.S. Georgieva, A.J. Post, K.P. Ananthapadmanabhan, Solubility limits and phase diagrams for fatty acids in anionic (SLES) and zwitterionic (CAPB) micellar surfactant solutions, Journal Colloid and Interface Science 369 (2012) 274–286. (брой: 45)**
1. Azevedo D., Caracterização fotofísica do polímero luminescente Poly-3-Diethyl -butylsulfonate-hexylthiophene (P3DEBAHT) em solução e sua interação com diferentes surfactants, PhD Thesis, Universidade de Coimbra, Portugal, 2013.
  2. Piroird K., E. Lorenceau, Capillary flow of oil in a single foam microchannel, *Physical Review Letters* 111(23) (2013) 234503.
  3. Ceschia E., J.R. Harjani, C. Liang, Z. Ghoshouni, T. Andrea, R.S. Brown, P.G. Jessop, Switchable anioninc surfactants for the remediation of oil-contaminated sand by soil washing, *RSC Advances* 4(9) (2014) 4638–4645.
  4. Gao F., C. Lian, L. Zhou, H. Liu, J. Hu, Phase separation of mixed micelles and synthesis of hierarchical porous materials, *Langmuir* 30(38) (2014) 11284–11291.
  5. Lee S.-W., K.E. Tetley, Y. Yarovsky, D. Lee, Effects of anionic surfactants on the water permeability of a model stratum corneum lipid membrane, *Langmuir* 30(1) (2014) 220–226.
  6. Lesov I., S. Tcholakova, N. Denkov, Factors controlling the formation and stability of foams used as precursors of porous materials, *J. Colloid Interface Sci.* 426 (2014) 9–21.
  7. Noroozi Pesyan N., M. Bagheri, E. Sahin, T. Tunc, New fatty acid derivatives based on barbiturates and other cyclic  $\beta$ -dicarbonyl compounds and an acyl migration, *Journal of the Iranian Chemical Society* 11(5) (2014) 1429–1437.
  8. Pesyan N.N., M. Bagheri, E. Sahin, T. Tunc, New fatty acid derivatives based on barbiturates and other cyclic  $\beta$ -dicarbonil compounds and an acyl migration, *Journal of the Iranian Chemical Society* 11(5) (2014) 1429–1437.
  9. Doshi N., B. Demeule, S. Yadav, Inderstanding particle formation: Solubility of free fatty acids as polysorbate 20 degradation byproducts in therapeutic monoclonal antibody formulations, *Molecular Pharmaceutics* 12(11) (2015) 3792–3804.

10. Martinez-Santiago J., Polyelectrolyte-surfactant phase behavior and mechanisms of interaction in multicomponent systems, PhD Thesis, Columbia University, 2015.
11. Arouri A., K.E. Lauritsen, H.L. Nielsen, O.G. Mouritsen, Effect of fatty acid on the permeability barrier of model and biological membranes, *Chemistry and Physics of Lipids* 200 (2016) 139–146.
12. Giang T.M., S. Gaucel, P. Brestaz, M. Anton, A. Meynier, I.C. Trelea, S. Le Feunteun, Dynamic modelling of in vitro lipid digestion: Individual fatty acid release and bioaccessibility kinetics, *Food Chemistry* 194 (2016) 1180–1188.
13. Qui X.-Q., S.-Y. Wang, M.S. Zhou, Solution behaviors of sulfonated alkali lignin and sulfonated alkali lignin polyethenoxy ether, *Acta Polymerica Sinica* 4 (2016) 477–485.
14. Stoyanova K., Z. Vinarov, S. Tcholakova, Improving Ibopropen solubility by surfactant-facilitated self-assembly into mixed micelles, *Journal of Drug Delivery Science and Technology* 36 (2016) 208–215.
15. Li F., X. Tang, M. Chen, W. Zhang, Effect of polyhydric alcohols, surfactants, emollients and emulsifiers on phase behaviors of ternary fatty acid soap solutions, *Journal of Surfactants and Detergents* 20 (2017) 1–13.
16. Li F., M. Chen, W. Zhang, Effect of binary/ternary fatty acids ratio and glycerin on the phase behaviors of soap solutions, *Journal of Surfactants and Detergents* 20(2) (2017) 425–434.
17. Fan Y., H. Tang, Y. Wang, Synergistic behavior and microstructure transition in mixture of zwitterionic surfactant, anionic surfactant, and salts in sorbitol/H<sub>2</sub>O solvent: 1. Effect of surfactant compositions, *Journal of Surfactants and Detergents* 20(2) (2017) 435–443.
18. Ren Z.H., J. Huang, Y.C. Zheng, L. Lai, L.L. Hu, Interaction and micellar behavior of binary mixture of amino sulfonate amphoteric surfactant with octadecyltrimethylammonium bromide in aqueous solutions of NaCl, *Journal of Chemical and Engineering Data* 62(6) (2017) 1782–1787.
19. Efthimios K., Study of the influence of surfactants on the activity coefficients and mass transfer coefficients in binary aqueous mixtures by the reversed-flow gas chromatography technique, PhD Thesis, Patra University, 2018.
20. Matsuoka K. R. Omori, S. Yada, T. Yoshimura, H. Iwase, Solubilization ability of n,n-dimethyl-n-alkylamantylammonium bromide, *Journal of Molecular Liquids* 260 (2018) 131–137.
21. Mitrinova Z., S. Tcholakova, N. Denkov, Control of surfactant solution rheology using medium-chain cosurfactants, *Colloids and Surfaces A* 537 (2018) 173–184.
22. Soboleva O.A., The stability of detonation nanodiamonds hydrolysis in the presence of salts and surfactants, *Colloid Journal* 80(3) (2018) 320–325.
23. Matsuoka K., N. Takahashi, S. Yada, T. Yoshimura, Solubilization ability of star-shaped trimeric quaternary ammonium bromide surfactant, *Journal of Molecular Liquids* 291 (2019) 111254.
24. Saxena P., P.K. Sharma, P. Purohit, The mechanistic approach of the propylene glycol as a co-surfactant through “six member cyclic hydrogen bonding system” for the stable and flexible microemulsion drug carrier, *International Journal of Pharmacognosy* 6(5) (2019) 172–180.
25. Xu L., S. Amin, Microrheological study of ternary surfactant-biosurfactant mixtures, *International Journal of Cosmetic Science*, 41 (2019) 364–370.
26. Yada S., K. Matsuoka, N. Kanasaki, K. Gotoh, T. Yoshimura, Emulsification, stabilization, and detergency behaviour of homogeneous polyoxypropylene-polyoxyethylene alkyl ether type nonionic surfactants, *Colloids Surfaces A* 564 (2019) 51–58.
27. Glucklich N., M. Dwivedi, S. Carle, J. Buske, K. Mader, P. Garidel, An in-depth examination of fatty acid solubility limits in biotherapeutic protein formulations containing polysorbate 20 and polysorbate 80, *International Journal of Pharmaceutics* 591 (2020) 119934.
28. Perkins R.J., M.G. Vazquez De Vasquez, E.E. Beasley, T.C.J. Hill, E.Q. Stone, H.C. Allen, P.J. Demott, Relating structure and aic nucleation of mixed surfactant systems relevant to sea spray aerosols, *Journal of Physical Chemistry A* 124 (2020) 8806–8821.
29. Turchi M., A.A. Kognole, A. Kumar, Q. Cai, G. Lian, A.D. Mackerell, Predicting partition coefficients of neutral and charged solutes in the mixed SLES-fatty acid micellar system, *Journal of Physical Chemistry B* 124 (2020) 1653–1664.
30. Yada L., H. Shimosegawa, H. Fujita, M. Yamada, Y. Matsue, T. Yoshimura, Microstructural characterization of foam formed by a hydroxy group-containing amino acid surfactant using small-angle neutron scattering, *Langmuir* 36 (2020) 7808–7813.
31. Kelleppan V.T., J.P. King, C.S.G. Butler, A.P. Williams, K.L. Tuck, R.F. Tabor, Heads or tails? The synthesis, self-assembly, properties and uses of betaine and betaine-like surfactants. *Advances in Colloid and Interface Science* 297 (2021) 102528.
32. Naso J.N., F.A. Bellesi, V.M. Pizones Ruiz-Henestrosa, A.M.R. Pilosof, A new methodology to assess the solubility of fatty acids: Impact of food emulsifiers, *Food Research International* 139 (2021) 109829.
33. Patti A., H. Lecocq, A. Serghei, D. Acierno, P. Cassagnau, The universal usefulness of stearic acid as surface modifier: applications to the polymer formulations and composite processing, *Journal of Industrial and Engineering Chemistry* 96 (2021) 1–33.

34. Sabatello R., Impact of dynamic aging on the formation and stability of model bigle water oil-in-water emulsions, PhD Thesis, School of Materials Engineering, West Lafayette, Indiana, 2021.
  35. Shin K.-C., D.-K. Oh, An integrative approach to improving the biocatalytic reactions of whole cells expressing recombinant enzymes, *World Journal of Microbiology and Biotechnology* 37 (2021) 105.
  36. Dong Q., X. Li, J. Dong, Synthesis and properties of ethoxylated vicinal diol nonionic surfactants with double hydrophilic head groups, *Colloids Surfaces A* 634 (2022) 127971.
  37. Dong Q., X. Li, J. Dong, Synthesis of a branched surfactant from the castor derivative and its surface properties, *Physical Chemistry Chemical Physics* 24 (2022) 23612–23621.
  38. Rajput G., D.S. Janni, G. Subramanyam, D. Ray, V. Aswal, D. Varade, Novel approach for tuning micellar characteristics and rheology of a sulfate-free anionic surfactant sodium cocoyl glycinate, *Colloids and Surfaces A* 648 (2022) 129426.
  39. Vazquez de Vazquez M.G., The role of film and subphase complexity: Understanding hydration, hydrogen bond order, co-adsorption, and binding at the air-water interface, PhD Thesis, Ohio State University, 2022.
  40. Koizumi S., Y. Noda, T. Inada, T. Maeda, S. Yada, T. Yoshimura, H. Shimosegawa, H. Fujita, M. Yamada, Y. Matsue, Microscopic depiction of vanishing shampoo foam examined by time-of-flight small-angle neutron scattering, *Quantum Beam Science* 7 (2023) 4.
  41. Lu S., J. Dong, X. Li, Gradual transformation of anionic/zwitterionic wormlike micelles from viscous to elastic domains: Unravelling the effect of anionic surfactant chain length, *Journal of Colloid and Interface Science* 641 (2023) 319328.
  42. Dean R.G., C.R. Davis, Y.E. Zheng, K.A. Erk, J.A. Howarter, C.J. Martinez, Effect of Dynamic Ageing on the Stability of Oil-in-Water Emulsions with Anionic and Nonionic Surfactants in High-Salinity Water, *ACS ES and T Water* 3 (2023) 701–711.
  43. Wang Z., Amino acids: Insights and roles in heterocyclic chemistry (2023) 1–414.
  44. Zhu Z., J. Zhang, F. Wang, W. Leng, L. Dang, H. Wei, Synergistic Effect and Phase Behavior of SCG-CAPB-H<sub>2</sub>O Ternary Compound System, *Applied Science* 14 (2024) 3081.
  45. Wu X., G. Zhang, P. Wang, Phase behavior and rheological properties of AES/CAPB/H<sub>2</sub>O ternary system, *Applied Sciences* 14 (2024) 3605.
- 158 K.D. Danov, S.D. Stoyanov, N.K. Vitanov, I.B. Ivanov, Role of surfactants on the approaching velocity of two small emulsion drops, *Journal Colloid and Interface Science* 368 (2012) 342–355. (брой: 14)**
1. Leary T.F., Hydrodynamic and mass transfer properties of microfluidic geometries, PhD Thesis, Department of Chemical Engineering, City College, NY, 2013.
  2. Saad Bhamla M., C.E. Giacomini, C. Balemans, G.G. Fuller, Influence of interfacial rheology on drainage from curved surfaces, *Soft Matter* 10 (2014) 6917–6925.
  3. Maldarelli, C., Hydrodynamic flow over microtextured surfaces, Department of Chemical Engineering, City College NY, No. W911NF1110161, 2015.
  4. Bazhlekova I., D. Vasileva, Numerical modeling of drop coalescence in the presence of soluble surfactants, *Journal of Computational and Applied Mathematics* 293 (2016) 7–19.
  5. Hong J.S., P. Fisher, Bulk and interfacial rheology of emulsions stabilized with clay particles, *Colloids and Surfaces A* 508 (2016) 316–326.
  6. Liu S., C. Sun, Y. Xue, Y. Gao, Impact of pH, freeze-thaw and thermal sterilization on physicochemical stability of walnut beverage emulsion, *Food Chemistry* 196 (2016) 475–485.
  7. Shao P., H. Ma, Q. Qiu, W. Jing, Physical stability of R-(+)-Limonene emulsions stabilized by *Ulva fasciata* algae polysaccharide, *International Journal of Biological Macromolecules* 92 (2016) 926–934.
  8. Sokolovic R.M.S., D.S. Sokolovic, D.D. Govedarica, Liquid-liquid separation using steady-state bed coalescer, *Hemijaska Industrija* 4 (2016) 367–381.
  9. Jin H., W. Wang, F. Liu, Z. Yu, H. Chang, K. Li, J. Gong, Roles of interfacial dynamics in the interaction behaviours between deformable oil droplets, *International Journal of Multiphase Flow* 94 (2017) 44–52.
  10. Da Silva Almeida F.B.P., K.P.S.O.R. Esquerre, J.I. Soletti, C.E. De Farias Silva, Coalescence process to treat produced water: An updated overview and environmental outlook, *Environmental Science and Pollution Research* 26 (2019) 28668–28688.
  11. Hong J.S., J. Bergfreund, P. Fisher, Complex emulsion stabilization behavior of clay particles and surfactants based on an interfacial rheological study, *Colloids Surfaces A* 602 (2020) 125121.
  12. Zheng L., C. Cao, Z. Chen, L. Cao, Q. Huang, B. Song, Evaluation of emulsion stability by monitoring the interaction between droplets, *LWT* 132 (2020) 109804.
  13. Jadhav S.N., U. Ghosh, Effect of surfactants on the settling of a drop towards a wall, *Journal of Fluid Mechanics* 912 (2021) A4.
  14. Ali B.K., Chakrabarti D.P., The impact of surfactants and particles on the stability of emulsion in the North Coast Marine Acreage of Trinidad and Tobago, *Journal of Petroleum Science and Engineering*, 212 (2022) 110314.

- 157 P.A. Kralchevsky, K.D. Danov, E.S. Basheva, Hydration force due to the reduced screening of the electrostatic repulsion in few-nanometer-thick films, *Current Opinion in Colloid and Interface Science* 16 (2011) 517–524. (брой: 37)
1. Tedjokosumo T.R.S., Dispersion of colloidal silica and its application to form a light-scattering layer on glass substrates, MSc Thesis, Department of Chemical Engineering, NTUST, Taiwan, 2011.
  2. Johnson K.P., J.A. Maynard, A. Miller, et al., Protein nanoparticle dispersions, US Patent US 20120230913 A1, 2012.
  3. Leite F.L., C.C. Bueno, A.L. Da Roz, E.C. Ziemath, O.N. Oliveira Jr. Theoretical model for surface forces and adhesion and their measurement using atomic force microscopy, *International Journal of Molecular Science* 13(10) (2012) 12773–12856.
  4. Ahmed F.N., Modified Spiegler-Kedem model to predict the rejection and flux of nanofiltration processes at high NaCl concentrations, MSc Thesis, Department of Civil Engineering, University of Ottawa, Canada, 2013.
  5. Borwankar A.U., A.K. Dinin, J.R. Laber, A. Twu, B.K. Wilson, J.A. Maynard, T.M. Truskett, K.P. Johnston, Tunable equilibrium nanocluster dispersions at high protein concentrations, *Soft Matter* 9(6) (2013) 1766–1771.
  6. Deng M., Impact of gypsum supersaturated solution on the flotation of sphalerite, PhD Thesis, Department of Chemical and Materials Engineering, Edmonton, Canada, 2013.
  7. Deng M., Q. Liu, Z. Xu, Impact of gypsum supersaturated solution on surface properties of silica and sphalerite minerals, *Minerals Engineering* 46–47 (2013) 6–15.
  8. Inoue K., H. Kurebayashi, M. Hama, Y. Kobayashi, Y. Yasuda, T. Morita, Fabrication of transparent self-supporting films by homogeneous precipitation process, *Journal of the Ceramic Society of Japan* 121(1414) (2013) 494–497.
  9. Kilpatrick J.I., S.-H. Loh, S.P. Jarvis, Directly probing the effects of ions on hydration forces at interfaces, *Journal of the American Chemical Society* 135(7) (2013) 2628–2634.
  10. Borwankar A.U., Formation of nanostructures and weakening of interaction between proteins to design low viscosity dispersions at high concentrations, PhD Thesis, University of Texas, 2014.
  11. Slavchov R.I., T. Nomura, B. Martinac, M. Sokabe, F. Sachs, Gigaseal mechanics: Creep of the gigaseal under the action of pressure, adhesion, and voltage, *Journal of Physical Chemistry B* 118(44) (2014) 12660–12672.
  12. Guixiang W., Influence of the surfactant on the coupling force between the object surface and particles, *Metallurgical and Mining Industry* 8 (2015) 289–295.
  13. Kedracki D., DNA-copolymers structure formation: beyond self-assembly, PhD Thesis, Jeneve University, 2015.
  14. Van der Linden M., B.Q. Contchuir, E. Spigone, A. Niranjana, A. Zacccone, P. Cicuta, Microscopic origin of the Hofmeister effect in gelation kinetics of colloidal silica, *Journal of Physical Chemistry Letters* 6(15) (2015) 2881–2887.
  15. Wu G., Influence of the surfactants on the coupling force between the object surface and the particles, *Metallurgical and Mining Industry* 7 (2015) 289–295.
  16. Zhang L., A. Mikhailovskaya, P. Yazhgur, F. Muller, F. Cousin, D. Langevin, Wang N., Salonen A., Precipitating sodium dodecyl sulfate to create ultrastable and stimuable foams, *Angewandte Chemie – International Edition* 54(33) (2015) 9533–9536.
  17. Kedracki D., J.N. Abraham, E. Prado, C. Nardin, Self-assembly of biohybrid polymers, in: *Macromolecular Self-Assembly*, Ch. 7, Wiley, 2016.
  18. Zhang L., The study of phase separation in the miscibility gap and ion specific effects on the aggregation of soft matter systems, PhD Thesis, Université Paris, 2016.
  19. Радулова Г.М., Повърхностна реология на адсорбционни слоеве от протеина хидрофобин и от негови смеси с други протеини: експеримент и теоретичен модел, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2016.
  20. Azadzadeh Shahir A., D. Arabadziewa, H. Petkova, S.I. Karakashev, A.V. Nguyen, E. Mileva, Effect of under-monolayer adsorption on foamability, rheological characteristics, and dynamic behavior of fluid interfaces: Experimental evidence for the Guggenheim extended interface model, *Journal of Physical Chemistry C* 121(21) (2017) 11472–11487.
  21. Hofmann M.J., H. Motschmann, A parameter predicting the foam stability of mixtures of aqueous ionic amphiphile solutions with indifferent electrolyte, *Colloids Surfaces A* 529 (2017) 1024–1029.
  22. Miao R., L. Wang, D. Deng, S. Li, J. Wang, T. Liu, M. Zhu, Y. Lv, Evaluating the effects of sodium and magnesium on the interaction processes of humic acid and ultrafiltration membrane surfaces, *Journal of Membrane Science* 526 (2017) 131–137.



23. Miao R., L. Wang, M. Zhu, D. Deng, S. Li, J. Wang, T. Liu, Y. Lv, Effect of hydration forces on protein fouling of ultrafiltration membranes: The role of protein charge, hydrated ion species, and membrane hydrophilicity, *Environmental Science and Technology* 51(1) (2017) 167–174.
  24. Hofmann M.J., Studies of ionic surfactant systems using surface rheology with a focus on the oscillating bubble technique, PhD Thesis, Regensburg University, Germany, 2018.
  25. Jafari D.S.S., L.A. James, Y. Zhang, Insight into the stability of hydrophilic silica nanoparticles in seawater for Enhanced oil recovery implications, *Fuel* 216 (2018) 559–571.
  26. Shahir A.A., K. Khristov, K.T. Nguyen, A.V. Nguyen, E. Mileva, Combined sum frequency generation and thin liquid film study of the specific effect of monovalent cations on the interfacial water structure, *Langmuir* 34 (2018) 6844–6855.
  27. Lin W., J. Klein, Control of surface forces through hydrated boundary layers, *Current Opinion in Colloid and Interface Science* 44 (2019) 94–106.
  28. Slabu I., M. Liebl, F. Wiekhorst, D. Eberbeck, Magnetic relaxation of magnetic nanoparticles under the influence of shear flow, *Journal of Physics D* 51(20) (2019) 205002.
  29. Bacille N., T. Zinn, G.P. Laurent, G.B. Messaud, V. Cristiglio, F.M. Fernandes, Unveiling the interstitial pressure between growing ice crystals during ice-templating using a lipid lamellar probe, *Journal of Physical Chemistry Letters* 11 (2020) 1989–1997.
  30. Bacille N., V. Cristiglio, Primary and secondary hydration forces between interdigitated membranes composed of Bolaform microbial glucolipids, *Langmuir* 36(9) (2020) 2191–2198.
  31. Grossutti M., J.R. Dutcher, Hydration water structure, hydration forces, and mechanical properties of polysaccharide films, *Biomacromolecules* 21 (2020) 4871–4877.
  32. Li H., W. Xu, F. Jia, S. Song, Y. Nahmad, Correlation between surface charge and hydration on mineral surfaces in aqueous solutions: A critical review, *International Journal of Minerals, Metallurgy and Materials* 27 (2020) 857–871.
  33. Vera R.E., F. Salazar-Rodriguez, R. Marquez, A.M. Forgiarini, How the influence of different salts on interfacial properties of surfactant–oil–water systems at optimum formulation matches the Hofmeister series ranking, *Journal of Surfactants and Detergents* 23 (2020) 603–615.
  34. Eberbeck D., S. Gustafsson, E. Olsson, K.-F. Braun, C. Gollwitzer, M. Krumrey, C. Bergemann, A. Wang, W.W. Yu, H. Kratz, B. Hankiewicz, R. Messing, N. Steffens, A.M. Schmidt, C. Schmidt, R. Muller, F. Wiekhorst, Magneto-structural characterization of different kinds of magnetic nanoparticles, *Journal of Magnetism and Magnetic Materials* 583 (2023) 171031.
  35. Liao J., S. Liu, N. Li, J. Huang, H. Fan, S. Fang, Contactless measurements of salt-enhanced nonionic micelle-induced depletion forces by optical tweezers, *Physics Fluids* 35 (2023) 123308.
  36. Yen Doan T.H., V. Truong, T. Vu., T. Le, T. Nguyen, M. Nguyen, T. Pham, S. Yusa, T. Pham, Removal of Acid Orange G Azo Dye by Polycation-Modified Alpha Alumina Nanoparticles, *Chemistry an Asian Journal* (2023) e202300404.
  37. Zabala-Ferrera O., Electrostatic Effects on Lipid Bilayer Physicochemical Properties and Vesicle Adhesion, PhD Thesis, University of Massachusetts Amhers, 2023.
- 156 K.D. Danov, E.S. Basheva, P.A. Kralchevsky, P. Ananthapadmanabhan, A. Lips, The metastable states of foam films containing electrically charged micelles or particles: Experiment and quantitative interpretation, *Advances in Colloid and Interface Science* 168 (2011) 50–70. (брой: 42)**
1. Emile J., F. Casanova, G. Loas, Emile O., Swelling of a foam lamella in a confined channel, *Soft Matter* 8(27) (2012) 3223–3227.
  2. Emile J., M.H.V. Werts, F. Artzner, F. Casanova, Emile O., J.R.G. Navarro, F. Meneau, Foam films in the presence of functionalized gold nanoparticles, *J. Colloid Interface Sci.* 383(1) (2012) 124–129.
  3. Gabrielli R., G. Loglio, P. Pandolfini, A. Fabbri, M. Simoncini, V.I. Kovalchuk, B.A. Noskov, A.V. Makievski, J. Kragel, R. Miller, F. Ravera, L. Liggieri, Spherical cap-shape emulsion films: thickness evaluation at the nanoscale level by the optical evanescent wave effect, *Colloid Surfaces A* 413 (2012) 101–107.
  4. Kroflic A., B. Sarac, M. Bester-Rogac, What affects the degree of micelle ionization: conductivity study of alkyltrimethylammonium chlorides, *Acta Chimica Slovenica* 59(3) (2012) 564–570.
  5. Emile J., O. Emile, A. Ghoufi, A. Moreac, F. Casanova, M. Ding, P. Houizot, Giant optical activity of sugar in thin soap films, *J. Colloid Interface Sci.* 408(1) (2013) 113–116.
  6. Emile J., O. Emile, F. Casanova, Light guiding properties of soap films, *EPL* 101(3) (2013) 34005.
  7. Emile J., O. Emile, Mapping of the Marangoni effect in soap films using Young's double split experiment, *EPL* 104(1) (2013) 14001.
  8. Kozak O., K.K.R. Datta, M. Greplova, V. Ranc, J. Kaslik, R. Zboril, Surfactant-derived amphiphilic carbon dots tunable photoluminescence, *Journal of Physical Chemistry C* 117(47) (2013) 24991–24996.

9. Lin S.-Y., W.-F. Chen, M.-T. Cheng, Q. Li, Investigation of factors that affect cationic surfactant loading on activated carbon and perchlorate adsorption, *Colloid and Surfaces A* 434 (2013) 236–242.
10. Briscoe W.H., Depletion forces between particles immersed in nanofluids, *Current Opinion in Colloid and Interface Science* 20(1) (2015) 46–53.
11. Fewkes C.J., R.F. Tabor, R.R. Dagastine, Sphere to rod transitions in self assembled systems probed using direct force measurements, *Soft Matter* 11(7) (2015) 1303–1314.
12. Zhang Y., V. Sharma, Domain expansion dynamics in stratifying foam films: Experiments, *Soft Matter* 11(22) (2015) 4408–4417.
13. Zhang Y. S. Yilixiati, C. Pearsall, V. Sharma, Nanoscopic terraces, mesas, and ridges in freely standing thin films sculpted by supramolecular oscillatory surface forces, *ACS Nano* 10(4) (2016) 4678–4683.
14. Samal K., C. Das, K. Mohanty, Eco-friendly biosurfactant saponin for the solubilization of cationic and anionic dyes in aqueous systems, *Dyes and Pigments* 140 (2017) 100–108.
15. Movchan T.G., A.I. Rusanov, E.V. Plotnikova, Calculation aspects of diffusion coefficients in micellar solutions of ionic surfactants, *Colloid Journal* 80(6) (2018) 660–666.
16. Yilixiati S., R. Rafiq, Y. Zhang, V. Sharma, Influence of salt on supramolecular structural forces and stratification in micellar freestanding films, *ACS Nano* 12(2) (2018) 1050–1061.
17. Ginot G., R. Hohler, S. Mariot, A. Kraynik, W. Drenckhan, Juggling bubbles in square capillaries: An experimental proof of non-pairwise bubble interactions, *Soft Matter* 15(22) (2019) 4570–4582.
18. Kadiya K., S. Ghosh, Conversion of viscous oil-in-water nanoemulsions to viscoelastic gels upon removal of excess ionic emulsifier, *Langmuir* 35 (2019) 17061–17074.
19. Ludwig M., M.U. Witt, R. von Klitzing, Bridging the gap between two different scaling laws for structuring of liquids under geometrical confinement, *Advances in Colloid and Interface Science* 269 (2019) 270–276.
20. Xiang W., N. Preisig, A. Ketola, B.L. Tardy, L. Bai, J.A. Ketoja, C. Stubenrauch, O.J. Rojas, How cellulose nanofibers affect bulk, surface, and foam properties of anionic surfactant solutions, *Biomacromolecules* 20 (2019) 4361–4369.
21. Yilixiati S., E. Wojcik, Y. Zhang, V. Sharma, Spinodal stratification in ultrathin micellar foam films, *Molecular Systems Design and Engineering* 4(3) (2019) 626–638.
22. Zueva O.S., Modified method of conductometer data analysis to calculate the degree of ionization and conductivity of micelles, *E3S Web of Conferences* 124 (2019) 03008.
23. Zueva O.S., V.S. Rukhlov, E.V. Gazeeva, Y.K. Mongush, Mathematical modeling of surfactant self-organization in water solution in the presence of carbon nanotubes, *IOP Conference Series: Earth and Environmental Science* 288 (2019) 012059.
24. Ludwig M., R. von Klitzing, Recent progress in measurements of oscillatory forces and liquid properties under confinement, *Current Opinion in Colloid and Interface Science* 47 (2020) 137–152.
25. Yada L., H. Shimosegawa, H. Fujita, M. Yamada, Y. Matsue, T. Yoshimura, Microstructural characterization of foam formed by a hydroxy group-containing amino acid surfactant using small-angle neutron scattering, *Langmuir* 36 (2020) 7808–7813.
26. Andrieux S., P. Muller, M. Kaushal, N.S. Macias Vera, R. Bollache, C. Honorez, A. Cagna, W. Drenckhan, Microfluidic thin film pressure balance for the study of complex thin films, *Lab on a Chip* 21 (2021) 412–420.
27. Kadiya K., The effect of interfacial composition on the dispersed phase-induced gelation and controlled digestion of mono and bilayer nanoemulsions, PhD Thesis, University of Saskatchewan, Canada, 2021.
28. Ludwig M., R. von Klitzing, Untangling superposed double layer and structural forces across confined nanoparticle suspensions, *Physical Chemistry Chemical Physics* 23 (2021) 1325–1334.
29. Ludwig M., Surface forces across colloidal dispersions, PhD Thesis, Darmstadt Technical University, Germany, 2021.
30. Ochoa C., C. Xu, C.D.V. Martinez Narvaez, W. Yang, Y. Zhang, V. Sharma, Drainage via stratification and nanoscopic thickness transitions of aqueous sodium naphthenate foam films, *Soft Matter* 17 (2021) 8915–8924.
31. Ochoa C., S. Gao, S. Srivastava, V. Sharma, Foam film stratification studies probe intermicellar interactions, *PNAS* 118 (2021) e2024805118.
32. Rondepierre G., F. Lequeux, E. Verneuil, N. Passade-Boupat, L. Talini, Spinodal stratification in micellar films between oil and silica, *Physical Review E* 103 (2021) 052801.
33. Rondepierre G., F. De Soete, N. Passade-Boupat, F. Lequeux, L. Talini, L. Limat, E. Verneuil, Dramatic slowing down of oil/water/silica contact line dynamics driven by cationic surfactant adsorption on the solid, *Langmuir* 37 (2021) 1662–1673.
34. Scarratt L.R.J., G. Trefalt, M. Borkovec, Forces between interfaces in concentrated nanoparticle suspensions and polyelectrolyte solutions, *Current Opinion in Colloid and Interface Science* 55 (2021) 101482.
35. Gao S., C. Ochoa, V. Sharma, S. Srivastava, Salt weakens intermicellar interactions and structuring in bulk solutions and foam films, *Langmuir* 38 (2022) 11003–11014.

36. Zueva O.S., V.S. Rukhlov, Y.F. Zuev, Morphology of ionic micelles as studied by numerical solution of the Poisson equation, *ACS Omega* 7 (2022) 6174–6183.
  37. Badve M., T. Humbare, Foaming and emulsifying properties of saponin glycosides: a natural non-ionic surfactant, *Proceedings of the Indian National Science Academy* 89 (2023) 181–188.
  38. Koizumi S., Y. Noda, T. Inada, T. Maeda, S. Yada, T. Yoshimura, H. Shimosegawa, H. Fujita, M. Yamada, Y. Matsue, Microscopic depiction of vanishing shampoo foam examined by time-of-flight small-angle neutron scattering, *Quantum Beam Science* 7 (2023) 4.
  39. Li X., X. Song, L. Li, Y. Wei, G. Liu, Q. Xia, Effect of different counterions on the self-assembly structures and properties of imidazole based ionic liquids surfactant: A molecular dynamics study, *Journal of Molecular Liquids* 391 (2023) 123277.
  40. Schmitt J., V. Calabrese, M.A. Da Silva, K.M.Z. Hossain, P. Li, N. Mahmoudi, R.M. Dalglish, A.L. Washington, J.L. Scott, K.J. Edler, Surfactant induced gelation of TEMPO-oxidized cellulose nanofibril dispersions probed using small angle neutron scattering, *Journal of Chemical Physics* 158 (2023) 034901.
  41. Zabala-Ferrera O., *Electrostatic Effects on Lipid Bilayer Physicochemical Properties and Vesicle Adhesion*, PhD Thesis, University of Massachusetts Amherst, 2023.
  42. Abdelsalam D.H.A., R. Yamakita, T. Aoki, Structures and Antibacterial Properties of DNA Ion Complex Films Consisting of Different Cationic Surfactants with the Same Carbon Number in Their Tails, *Journal of Fiber Science and Technology* 80 (2024) 50–63.
- 155 E.S. Basheva, P.A. Kralchevsky, K.D. Danov, S.D. Stoyanov, T.B.J. Blijdenstein, E.G. Pelan, A. Lips, Self-assembled bilayers from the protein HFBII hydrophobin: nature of the adhesion energy, *Langmuir* 27 (2011) 4481–4488. (брой: 44)**
1. Reger M.H., Unique emulsions based on recombinant hydrophobins, PhD Thesis, Bayreuth University, 2011.
  2. Zhang X.L., J. Penfold, R.K. Thomas, I.M. Tucker, J.T. Petkov, J. Bent, A. Cox, Adsorption behavior of hydrophobin and hydrophobin/surfactant mixtures at the solid-solution interface, *Langmuir* 27(17) (2011) 10464–10474.
  3. Zhang X.L., J. Penfold, R.K. Thomas, I.M. Tucker, J.T. Petkov, J. Bent, A. Cox, I. Grillo, Self-assembly of hydrophobin and hydrophobin/surfactant mixtures in aqueous solution, *Langmuir* 27(17) (2011) 10514–10522.
  4. Zhang X.L., J. Penfold, R.K. Thomas, I.M. Tucker, J.T. Petkov, J. Bent, A. Cox, R.A. Campbell, Adsorption behavior of hydrophobin and hydrophobin/surfactant mixtures at the air/water interface, *Langmuir* 27(18) (2011) 11316–11323.
  5. Bimbo L., Biocompatibility and biofunctionalization of mesoporous silicon particles, PhD Thesis, University of Helsinki, Faculty of Pharmacy, Division of Pharmaceutical Technology, 2012.
  6. Hoffmann H., Structure formation in surfactant solutions: a personal view of 35 years of research in surfactant science, *Adv. Colloid Interface Sci.* 178 (2012) 21–23.
  7. Houmadi S., R.D. Rodriguez, S. Longobardi, P. Giardina, M.C. Faurei, M. Giocondo, E. Lacaze, Self-assembly of hydrophobin protein rodlets studied with atomic force spectroscopy in dynamic mode, *Langmuir* 28(5) (2012) 2551–2557.
  8. Niu B., D. Wang, Y. Yang, H. Xu, M. Qiao, Heterologous expression and characterization of the hydrophobin HFBI in *Pichia pastoris* and evaluation of its contribution to the food industry, *Amino Acids*, 43(2) (2012) 763–771.
  9. Niu B., J. Huang, S. Zhang, D. Wang, H. Xu, D. Kong, M. Qiao, Expression and characterization of hydrophobin HGFI fused with the cell-specific peptide TPS in *Pichia pastoris*, *Protein Expression and Purification* 83(1) (2012) 92–97.
  10. Reger M., H. Hoffmann, Hydrophobin coated boehmite nanoparticles stabilizing oil in water emulsions, *J. Colloid Interface Sci.* 368(1) (2012) 378–386.
  11. Reger M., T. Sekine, H. Hoffmann, Boosting the stability of protein emulsions by the synergistic use of proteins and clays, *Colloid and Polymer Science* 290(7) (2012) 631–640.
  12. Green A.J., K.S. Littlejohn, P. Hooley, P.W. Cox, Formation and stability of food foams and aerated emulsions: hydrophobins as novel functional ingredients, *Current Opinion in Colloid and Interface Science* 18(4) (2013) 292–301.
  13. Burke J., Cox A., Petkov J., Murray B.S., Interfacial rheology and stability of air bubbles stabilized by mixtures of hydrophobin and  $\beta$ -casein, *Food Hydrocolloids* 34 (2014) 119–127.
  14. Gochev G., I. Retzlaff, D. Exerowa, R. Miller, Electrostatic stabilization of foam films from  $\beta$ -lactoglobulin solutions, *Colloid Surfaces A* 460 (2014) 272–279.
  15. Hoffmann H., M. Reger, Emulsions with unique properties from proteins as emulsifier, *Adv. Colloid Interface Sci.* 205 (2014) 94–104.
  16. Niu B., Y. Gong, X. Gao, H. Xu, M. Qiao, W. Li, The functional role of Cys3-Cys4 loop in hydrophobin HGFI, *Amino Acids* 46(11) (2014) 2615–2625.

17. Tucker I.M., J.T. Petkov, J. Penfold, R.K. Thomas, P. Li, A.R. Cox, N. Hedges, J.R.P. Webster, Spontaneous surface self-assembly in protein-surfactant mixtures: Interactions between hydrophobin and ethoxylated polysorbate surfactants, *Journal of Physical Chemistry B* 118(18) (2014) 4867–4875.
18. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междуфазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
19. Gravagnuolo A.M., E. Morales-Narvaiez, C.R.S. Longobardi, P. Glardina, A. Merkoci, On-the-spot immobilization of quantum dots, graphene oxide, and proteins via hydrophobins, *Advanced Functional Materials* 25(38) (2015) 6084–6092.
20. Khalesi M., K. Gebruers, G. Derdelincka, Recent advances in fungal hydrophobin towards using in industry, *Protein Journal* 34(4) (2015) 243–255.
21. Li W., Y. Gong, H. Xu, M. Qiao, B. Niu, Identification properties of a recombinant class I hydrophobin rHGFI, *International Journal of Biological Macromolecules* 72 (2015) 658–663.
22. Riveros D.G., Shokribousjein Z., Losada-Perez P., Khalesi M.R., Cordova K., Michiels C., Delcour J.A., Verachtert H. Wagner P., Derdelinckx G., Comparison of structure, sequence, physical interactions and its effects on primary gushing among several class II hydrophobins, *Brewing Science* 68(3-4) (2015) 38–45.
23. Todorov R., Thin liquid films in biomedical studies, *Current Opinion in Colloid and Interface Science* 20(2) (2015) 130–138.
24. Tucker I.M., J.T. Petkov, J. Penfold, R.K. Thomas, A.R. Cox, N. Hedges, Adsorption of hydrophobin-protein mixtures at the air-water interface: The impact of pH and electrolyte, *Langmuir* 31(36) (2015) 10008–10016.
25. Khalesi M., R. Jahanbani, D. Riveros-Galan, V. Sheikh-Hassani, M. Sheikh-Zeinoddin, M. Sahihi, J. Winterburn, G. Derdelinckx, A.A. Moosavi-Movahedi, Antioxidant activity and ACE-inhibitory of Class II hydrophobin from wild strain *Trichoderma reesei*, *International Journal of Biological Macromolecules* 91 (2016) 174–179.
26. Schor M., J.L. Reid, C.E. MacPhee, N.R. Stanley-Wall, The diverse structures and functions of surfactant proteins, *Trends in Biochemical Sciences* 41(7) (2016) 610–620.
27. Tucker I.M., J.T. Petkov, J. Penfold, R.K. Thomas, A.R. Cox, N. Hedges, Adsorption of hydrophobin/ $\beta$ -casein mixtures at the solid-liquid interface, *Journal of Colloid and Interface Science* 478 (2016) 81–87.
28. Радупова Г.М., Повърхностна реология на адсорбционни слоеве от протеина хидрофобин и от негови смеси с други протеини: експеримент и теоретичен модел, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2016.
29. Garakani T.M., M.J. Richter, A. Boker, Controlling the bio-inspired synthesis of silica, *Journal of Colloid and Interface Science* 488 (2017) 322334.
30. Hahl H., J.N. Vargas, A. Griffo, P. Laaksonen, G. Szilvey, M. Lienemann, K. Jacobs, Pore protein bilayers and vesicles from native fungal hydrophobins, *Advanced Materials* 29(1) (2017) 1602888.
31. Niu B., B. Li, H. Wang, R. Guo, H. Xu, M. Qiao, W. Li, Investigation of the relationship between the rodlet formation and Cys3–Cys4 loop of the HGFI hydrophobin, *Colloids and Surfaces B* 150 (2017) 344–351.
32. Nussinovitch A., Electrostatic adhesion in Foods, in: Nussinovitch A., *Adhesion in Foods: Fundamental Principles and Applications*, John Wiley & Sons, 2017, Ch. 7.
33. Hahl H., J.N. Vargas, M. Jung, A. Griffo, P. Laaksonen, M. Lienemann, K. Jacobs, R. Seemann, J.-N. Fleury, Adhesion properties of freestanding hydrophobin bilayers, *Langmuir* 34 (2018) 8542–8549.
34. Mancipe N.C., Design and production of high-performance hydrophobin surfactant proteins using a dual-domain fusion strategy, PhD Thesis, Minnesota University, 2019.
35. Oliveira C.M., F.H. Javier-Jr., A.R.D.V. Morais, I.L.Lima. R.A. Silva, A.E.G. Nascimento, N.K. Araujo, M.C.D.B.L. Nogueira, A.A. Silva-Jr., M.D.F.F. Pedrosa, E.S.T. Egito, Hydrophobin-stabilized nanoemulsion produced by a low-energy emulsification process: A promising carrier for nutraceuticals, *Food Hydrocolloids* 89 (2019) 749–757.
36. Tsibranska S., A. Ivanova, S. Tcholakova, N. Denkov, Structure of dense adsorption layers of Escin at the air-water interface studied by molecular dynamics simulations, *Langmuir* 35 (2019) 12876–12887.
37. Gochev G.G., V. Ulaganathan, I. Retzlaff, C. Gehin-Delval, D.Z. Gunes, M. Leser, U. Kulozik, R. Miller, B. Bronschweig,  $\beta$ -lactoglobulin adsorption layers at the water/air surface: 4. Impact on the stability of foam films and foams, *Materials* 10 (2020) 636.
38. Kwon K.Y., V.K. Truong, F. Krisnadi, S. Im, J. Ma, N. Mehrabian, T. Kim, M.D. Dickey, Surface modification of galium-based liquid metals: Mechanisms and applications in biomedical sensors and soft actuators, *Advanced Intelligent Systems* (2020) 2000159.
39. Tsibranska S., A. Ivanova, S. Tcholakova, N. Denkov, Structure and undulations of escin adsorption layer at water surface studied by molecular dynamics, *Molecules* 26 (2021) 6856.
40. Guan X., Y. Liu, Z. Wan, Y.-L. Steve Tse, T. Ngai, Non-covalent reconfigurable microgel colloidosomes with a well-defined bilayer shell, *Chemical Science* 13 (2022) 6205–6216.
41. Tanaka T., Y. Terauchi, A. Yoshimura, K. Abe, Aspergillus hydrophobins: Physicochemical properties, biochemical properties, and functions in solid polymer degradation, *Microorganisms* 10 (2022) 1498.



42. Zhang X., S. Jacobsen, Q. Zhang, B. Khau, P. Yunker, H.J. Qi, S. Bhamla, P.S. Russo, Reshaping sub-millimetre bubbles from spheres to tori, *Soft Matter* 18 (2022) 4660–4666.
  43. Gochev G., Autoreferat, DSc. Thesis, Institute of Cataliziz, Krakow, 2023.
  44. Nolle F., L.J. Starke, A. Griffio, M. Lienemann, K. Jacobs, R. Seemann, J.-B. Fleury, J.S. Hub, H. Hahl, Hydrophobin Bilayer as Water Impermeable Protein Membrane, *Langmuir* 39 (2023) 13790–13800.
- 154 E.S. Basheva, P.A. Kralchevsky, N.C. Christov, K.D. Danov, S.D. Stoyanov, T.B.J. Blijdenstein, H.-J. Kim, E.G. Pelan, A. Lips, Unique properties of bubbles and foam films stabilized by HFBII hydrophobin, *Langmuir* 27 (2011) 2382–2392. (брой: 70)**
1. Reger M., T. Sekine, T. Okamoto, K. Watanabe, H. Hoffman, Pickering emulsions stabilized by novel clay-hydrophobin synergism, *Soft Matter* 7(22) (2011) 11021–11030.
  2. Erni P., H.A. Jerri, K. Wong, A. Parker, Interfacial viscoelasticity controls buckling, wrinkling and arrest in emulsion drops undergoing mass transfer, *Soft Matter* 8(26) (2012) 2958–2967.
  3. Golding M., Interfacial phenomena in structured food, *Food Materials Science and Engineering* (2012) 94–135.
  4. Imperiali L., K.-H. Liao, C. Clasen, J. Fransaer, C.W. MacOsco, J. Vermant, Interfacial rheology and structure of tiled graphene oxide sheets, *Langmuir* 28(21) (2012) 7990–8000.
  5. Khalesi M., S.M. Deckers, K. Gebruers, L. Vissers, H. Verachtert, C. Derdelinckx, Hydrophobins: exceptional proteins for many applications in brewery environment and other bio-industries, *Cerevisia* 37(1) (2012) 3–9.
  6. Loget G., A. Kuhn, Bulk synthesis of Janus objects and asymmetric patchy particles, *Journal of Materials Chemistry* 22(31) (2012) 15457–15474.
  7. Reger M., H. Hoffmann, Hydrophobin coated boehmite nanoparticles stabilizing oil in water emulsions, *J. Colloid Interface Sci.* 368(1) (2012) 378–386.
  8. Wang L., X. Qiao, K. Sun, Advance in the investigations of the interfacial rheological behaviors of protein films, *Chemistry Bulletin* 75(3) (2012) 195–201.
  9. Balashev K., Atomic force microscopy (AFM) with applications spanning from nanoscale (bio)catalysis and characterization of molecularly ordered nanostructures to molecular biology, DSc Thesis, Sofia University, 2013.
  10. Deckers S., Modeling and biophysical characterization of the primary gushing mechanism in beer, PhD Thesis, KU Leuven, The Holland, 2013.
  11. Du X., L. Zhao, H. Chen, W. Qu, Z. Lei, Y. Li, S. Li, Synthesis and properties of multilayered films foams, *Colloids and Surfaces A* 436 (2013) 599–603.
  12. Gerasimova A., J.K. Angarska, K.D. Tachev, G.P. Yampolskaya, Drainage and critical thickness of foam films from mixed solutions of bovine serum albumin and n-dodecyl- $\beta$ -D-maltose, *Colloid Surfaces A* 438 (2013) 4–12.
  13. Knoche S., D. Vella, E. Aumaitre, P. Degen, H. Rehage, P. Cicuta, J. Kierfeld, Elastometry of deflated capsules: elastic moduli from shape and wrinkle analysis, *Langmuir* 29(40) (2013) 12463–12471.
  14. Krivosheeva O., A. Deidinaitei, M.B. Linder, R.D. Tilton, P.M. Claesson, Kinetic and equilibrium aspects of adsorption and desorption of class II hydrophobins HFBI and HFBII at silicon oxinitride/water and air/water interfaces, *Langmuir* 29(8) (2013) 2683–2691.
  15. Mezzenga R., P. Fischer, The self-assembly, aggregation, and phase transitions of food protein systems in one, two, and three dimensions, *Reports on Progress in Physics* 76(4) (2013) 046601.
  16. Van Hooghten R., L. Imperiali, V. Boeckx, R. Sharma, J. Vermant, Rough nanoparticles at the air-water interfaces: their structure, rheology and applications, *Soft Matter* 9(45) (2013) 10791–10798.
  17. Walther A., A.H.E. Muller, Janus particles: synthesis, self-assembly, physical properties, and applications, *Chemical Reviews* 113 (2013) 5194–5261.
  18. Wang Y., C. Bouillon, A. Cox, E. Dickinson, K. Durga, B.S. Murray, R. Xu, Interfacial study of class II hydrophobin and its mixtures with milk proteins: relationship to bubble stability, *Journal of Agricultural and Food Chemistry* 61(7) (2013) 1554–1562.
  19. Burke J., Cox A., Petkov J., Murray B.S., Interfacial rheology and stability of air bubbles stabilized by mixtures of hydrophobin and  $\beta$ -casein, *Food Hydrocolloids* 34 (2014) 119–127.
  20. Gochev G., I. Retzlaff, D. Exerowa, R. Miller, Electrostatic stabilization of foam films from  $\beta$ -lactoglobulin solutions, *Colloid Surfaces A* 460 (2014) 272–279.
  21. Hoffmann H., M. Reger, Emulsions with unique properties from proteins as emulsifier, *Adv. Colloid Interface Sci.* 205 (2014) 94–104.
  22. Knoche S., Instabilities and shape analyses of elastic shells, PhD Thesis, TU Dortmund University, 2014.
  23. Kovalenko A., P. Polavarapu, J.-L. Gallani, G. Pourroy, G. Waton, M.P. Krafft, Super-elastic air/water interfacial films self-assembled from soluble surfactants, *ChemPhysChem* 15(12) (2014) 2440–2444.

24. Li T., M. Kalloudis, A.Z. Cardoso, D.J. Adams, P.S. Clegg, Drop-casting hydrogels at a liquid interface: The case of hydrophobic dipeptides, *Langmuir* 30(46) (2014) 13854–13860.
25. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междуфазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
26. Dickinson E., Colloids in food: ingredients, structure, and stability, *Annula Review of Food Science and Technology* 6 (2015) 211–233.
27. Khalesi M., K. Gebruers, G. Derdelincka, Recent advances in fungal hydrophobin towards using in industry, *Protein Journal* 34(4) (2015) 243–255.
28. Knoche S., J. Kierfeld, Elasticity of interfacial rafts of hard particles with soft shells, *Langmuir* 31(19) (2015) 5364–5376.
29. Meinders M.B.J., R.G.M. Van der Sman, Modeling foam stability, *Computational Methods for Complex Liquid-Fluid Interfaces* (2015) 503–528.
30. Riveros D.G., Shokribousjein Z., Losada-Perez P., Khalesi M.R., Cordova K., Michiels C., Delcour J.A., Verachtert H. Wagner P., Derdelinckx G., Comparison of structure, sequence, physical interactions and its effects on primary gushing among several class II hydrophobins, *Brewing Science* 68(3-4) (2015) 38–45.
31. Todorov R., Thin liquid films in biomedical studies, *Current Opinion in Colloid and Interface Science* 20(2) (2015) 130–138.
32. Chung C., G. Smith, B. Degner, D.J. McClements, Reduced fat food emulsions: physicochemical, sensory, and biological aspects, *Critical Reviews in Food Science and Nutrition* 56(4) (2016) 650–685.
33. Dickinson E., Exploring the frontiers of colloidal behavior where polymers and particles meet, *Food Hydrocolloids* 52 (2016) 497–509.
34. Gazzera L., R. Milani, L. Pirrie, M. Schmutz, C. Blank, G. Resnati, P. Metrangolo, M.P. Krafft, Design of highly stable echogenic microbubbles through controlled assembly of their hydrophobin shell, *Angewandte Chemie* 128(35) (2016) 10419–10423.
35. Gruner L.J., L. Bahrig, K. Ostermann, S.G. Hickey, A. Eychmuller, G. Rodel, Excitable oil droplet – Fret across a liquid-liquid phase boundary, *Chemistry Select* 1(13) (2016) 4062–4067.
36. Khalesi M., R. Jahanbani, D. Riveros-Galan, V. Sheikh-Hassani, M. Sheikh-Zeinoddin, M. Sahihi, J. Winterburn, G. Derdelinckx, A.A. Moosavi-Movahedi, Antioxidant activity and ACE-inhibitory of Class II hydrophobin from wild strain *Trichoderma reesei*, *International Journal of Biological Macromolecules* 91 (2016) 174–179.
37. Kirbi S.M., X. Zhang, P.S. Russo, S. Anna, L.M. Walker, Formation of a rigid hydrophobin film and disruption by an anionic surfactant at an air/water interface, *Langmuir* 32(22) (2016) 5542–5551.
38. Moriss R.J., K.M. Bromley, N. Stanley-Wall, C.E. MacPhee, A phenomenological description of BslA assemblies across multiple length scales, *Philosophical Transactions of the Royal Society A* 374(2072) (2016) Art, No. 20150131.
39. Радулова Г.М., Повърхностна реология на адсорбционни слоеве от протеина хидрофобин и от негови смеси с други протеини: експеримент и теоретичен модел, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2016.
40. Bromley K.M., C.E. Macphee, BslA-stabilized emulsion droplets with designed microstructure, *Interface Focus* 7(4) (2017) 8.
41. Gerasimova A.T., J.K. Angarska, K.D. Tachev, Evolutions and equilibrium parameters of foam films from individual solutions of Bovine serum albumin, n-dodecyl-b-D-maltoside and from their mixed solutions, *Acta Scientifica Naturalis* 4(1) (2017) 19–28.
42. Gunes D.Z., M. Murith, J. Godefroid, C. Pelloux, H. Deyber, O. Schafer, O. Breton, Oleofoams: Properties of crystal-coated bubbles from whipped oleogels – evidence for Pickering stabilization, *Langmuir* 33(6) (2017) 1563–1575.
43. Kaufmann G., W. Liu, D.M. Williams, Y. Choo, M. Gopinadhan, N. Samudrala, E.C.Y. Yan, L. Regan, C.O. Osuji, Flat drops, elastic sheets, and microcapsules by interfacial assembly of a bacterial biofilm protein, BslA, *Langmuir* 33(47) (2017) 13590–13507.
44. Paukkonen H., A. Ukkonen, G. Szilvay, M. Yliperttula, T. Laaksonen, Hydrophobin-nanofibrillated cellulose stabilized emulsions for encapsulation and release of BCS class II drugs, *European Journal of Pharmaceutical Sciences* 100 (2017) 238–248.
45. Przylucka A., G.B. Akcapinar, K. Bonazza, T.M. Melo-de-Sousa, A.R. Mach-Aigner, V. Lobanov, H. Grothe, C.P. Cubicek, E. Reimhult, I.S. Druzhinina, Comparative physicochemical analysis of hydrophobin produced in *Escherichia coli* and *Pichia pastoris*, *Colloid and Surfaces B* 159 (2017) 913–923.
46. Przylucka A., G.B. Akcapinar, K. Chentamara, F. Cai, M. Grujic, J. Karpenko, M. Livoi, Q. Shen, C.P. Cubicek, I.S. Druzhinina, HFB7 – A novel orphan hydrophobin of the Harzianum and Virens clades of *Trichoderma*, is involved in response to biotic and abiotic stresses, *Fungal Genetics and Biology* 102 (2017) 63–76.

47. Li B., X. Wang, Y. Li, A. Paananen, G.R. Szilvay, M. Qin, W. Wang, Y. Cao, Single-molecule force spectroscopy reveals self-assembly enhanced surface binding of Hydrophobins, *Chemistry – A European Journal* 24 (2018) 9224–9228.
  48. Linke C., S. Drusch, Pickering emulsions in foods – opportunities and limitations, *Critical Reviews in Food Science and Nutrition* 58 (2018) 1971–1985.
  49. Linke C., Strategies to increase turbidity in beverage emulsions, PhD Thesis, Technical University Berlin, 2018.
  50. Zhang X., S.M. Kirby, Y. Chen, S.L. Anna, L.M. Walker, F.R. Hung, P.S. Russo, Formation and elasticity of membranes of the class II hydrophobin Cerato-ulmin at oil-water interface, *Colloids and Surfaces B* 164 (2018) 98–106.
  51. Forth J., P.Y. Kim, G. Xie, X. Liu, B.A. Helms, T.P. Russell, Building reconfigurable devices using complex liquid-fluid interfaces, *Advances Materials* 31 (2019) 1806370.
  52. Oliveira C.M., F.H. Javier-Jr., A.R.D.V. Morais, I.L.Lima. R.A. Silva, A.E.G. Nascimento, N.K. Araujo, M.C.D.B.L. Nogueira, A.A. Silva-Jr., M.D.F.F. Pedrosa, E.S.T. Egito, Hydrophobin-stabilized nanoemulsion produced by a low-energy emulsification process: A promising carrier for nutraceuticals, *Food Hydrocolloids* 89 (2019) 748–757.
  53. Tsibranska S., A. Ivanova, S. Tcholakova, N. Denkov, Structure of dense adsorption layers of Escin at the air-water interface studied by molecular dynamics simulations, *Langmuir* 35 (2019) 12876–12887.
  54. Ulaganathan V., L. del Castillo, J.L. Weber, T.T.M. Ho, J.K. Ferri, M. Krasowska, D.A. Beattie, The influence of pH on the interfacial behavior of Quillaja bark saponin at the air-solution interface, *Colloids and Surfaces A* 176 (2019) 412–419.
  55. Zhang X., B. Blalock, W. Huberty, Y. Chen, F. Hung, P.S. Russo, Microbubbles and oil droplets stabilized by a class II Hydrophobin in marinelike environments, *Langmuir* 35 (2019) 4380–4386.
  56. Cheng Y., B. Wang, Y. Wang, H. Zhang, C. Liu, L. Yang, Z. Chen, Y. Wang, H. Yang, Z. Wang, Soluble hydrophobin mutants produced in *Escherichia coli* can self-assemble at various interfaces. *Journal of Colloid and Interface Science* 573 (2020) 384–395.
  57. Dokouhaki M., E.L. Prime, G.G. Qiao, S. Kasapis, L. Day, S.L. Gras, Structural-rheological characteristics of Chaplin E peptide at the air/water interface; a comparison with  $\beta$ -lactoglobulin and  $\beta$ -casein, *International Journal of Biological Macromolecules* 144 (2020) 742–750.
  58. Mamashli F., B. Goliaei, A.A. Moosavi-Movahedi, G. Derdelinckx, M. Khalesi, Class ii hydrophobin hfbii: A potential carrier for antitumor agents, *Current Bioactive Compounds* 16 (2020) 83–86.
  59. Patel A.R., Functional and engineering colloids from edible materials for emerging applications in designing the food of the future, *Advanced Functional Materials* 30 (2020) 1806809.
  60. Saha S., R. Saint-Michel, V. Leines, B. Binks, V. Garbin, Stability of bubbles in wax-based oleofoams: Decoupling the effects of bulk oleogel rheology and interfacial rheology, *Rheologica Acta* 59 (2020) 255–266.
  61. Landeta-Salgado C., P. Cicatiello, M.E. Lienqueo, Mycoprotein and hydrophobin like protein produced from marine fungi *Paradendryphiella salina* in submerged fermentation with green seaweed *Ulva* spp. *Algal Research* 56 (2021) 102314.
  62. Tsibranska S., A. Ivanova, S. Tcholakova, N. Denkov, Structure and undulations of escin adsorption layer at water surface studied by molecular dynamics, *Molecules* 26 (2021) 6856.
  63. Vodopivec A.A., Y. Chen, P.S. Russo, F.R. Hung, Molecular dynamics simulations of nanostructures formed by hydrophobins and oil in seawater, *Journal of Physical Chemistry B* 125 (2021) 7886–7899.
  64. Bayles A.V., J. Vermant, Divide, conquer, and stabilize: Engineering strong fluid-fluid interfaces, *Langmuir* 37 (2022) 6499–6505.
  65. Mustan F., N. Politova-Brinkova, Z. Vinarov, D. Rossetti, P. Rayment, S. Tcholakova, Interplay between bulk aggregates, surface properties and foam stability of nonionic surfactants, *Advances in Colloid and Interface Science* 302 (2022) 102618.
  66. Gochev G., Autoreferat, DSc. Thesis, Institute of Cataliziz, Krakow, 2023.
  67. Hassan L., C. Xu, M. Boehm, S.K. Baier, V. Sharma, Ultrathin Micellar Foam Films of Sodium Caseinate Protein Solutions, *Langmuir* 39 (2023) 6102–6112.
  68. Sakurai Y., R. Kukluchi, M. Hayashi, T. Hirai, Y. Nakamura, S. Fujii, Shape design of aqueous bubbles stabilized with millimeter-sized polymer plates, *New Journal of Chemistry* 48 (2023) 31–35.
  69. Vereman J., T. Thysens, F. Weiland, J.V. Impe, G. Derdelinckx, J.V. de Voorde, Liquid storage stability of the class II hydrophobin HFBI: Effect of pH on functional properties, *Process Biochemistry* 130 (2023) 455–463.
  70. Rojas-Osnaya J., M. Quintana-Quirino, A. Espinosa-Valencia, A.L. Bravo, H. Najera, Hydrophobins: multitask proteins, *Frontiers in Physics* 12 (2024) 1393340.
- 153 P.A. Kralchevsky, K.D. Danov, Interaction between particles at a fluid interface. In: Nanoscience. Colloidal and Interfacial Aspects, V.M. Starov, Ed., CRC Press, Boca Raton, 2010, Ch. 15, 397–436. (брой: 12)**

1. Klein M.J.K., Wafer-scale fabrication of thin SiN membranes and Au films with arrays of sub-um holes using nanosphere lithography, PhD Thesis, Lausane EPFL, 2010.
  2. Zhang L., Drying dynamics of sessile droplets on substrates of different wettabilities, PhD Thesis, Department of Chemistry, South Hadley, Massachusetts, 2012.
  3. Ershov D., J. Sprakel, J. Appel, M.A. Cohen Stuart, J. van der Gucht, Capillary-induced ordering of spherical colloids on an interface with anisotropic curvature, PNAS 110(23) (2013) 9220–9224.
  4. Maestro A., Guzman E., Ortega F., Rubio R.G., Contact angle of micro- and nanoparticles at fluid interfaces, Current Opinion in Colloid and Interface Science 19(4) (2014) 355–367.
  5. Feng D.-X., A.V. Nguyen, The floatability of single spheres versus their pairs on the water surface, Langmuir 32(51) (2016) 13627–13634.
  6. Joshi K., Behaviour of thin colloidal films and fundamental studies of convective deposition, PhD Thesis, Lehigh University, 2017.
  7. Lotito V. T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, Advances in Colloid and Interface Science 245 (2017) 217–274.
  8. Gabovich A.M., A.I. Voitenko, Electrostatic interaction near the interface between dielectric media taking into account the nonlocality of the Coulomb field screening, Journal of Molecular Liquids 267 (2018) 166–176.
  9. Pardo G.S., A.K. Sarmah, R.P. Orense, Mechanism of improvement of biochar on shear strength and liquefaction resistance of sand, Geotechnique 69(6) (2019) 471–480.
  10. Liu J., S.P. Ganesan, X. Li, A. Garg, A. Singhal, K.D. Dosetti, H. Feng, Dynamics of biochar-silty clay interaction using in-house fabricated cyclic loading apparatus: A case study of coastal clay and novel peach biochar from the Qingdao region of China, Sustainability 12 (2020) 2599.
  11. Ling X., A. Mayer, X. Yang, G. Bournival, S. Ata, Motion of particles in a monolayer induced by coalescing of a bubble with a planar air-water interface, Langmuir 37 (2021) 3648–3661.
  12. Guzman E., F. Ortega, R.G. Rubio, Forces controlling the assembly of particles at fluid interfaces, Langmuir 38 (2022) 13313–13321.
- 152 K.D. Danov, P.A. Kralchevsky, Interaction between like-charged particles at a liquid interface: Electrostatic repulsion vs. electrocapillary attraction, J. Colloid Interface Sci. 345 (2010) 505–514. (брой: 27)**
1. Klein M.J.K., Wafer-scale fabrication of thin SiN membranes and Au films with arrays of sub-um holes using nanosphere lithography, PhD Thesis, Lausane EPFL, 2010.
  2. Gharbi M.A., M. Nobili, G. Prevod, P. Galatola, J.B. Fournier, C. Blank, Behavior of colloidal particles at a nematic liquid crystal interface, Soft Matter 7(4) (2011) 1467–1471.
  3. Ma H., L.L. Dai, Particle self-assembly in ionic liquid-in-water pickering emulsions, Langmuir 27(2) (2011) 508–512.
  4. McNamee C.E., S. Yamamoto, H.-J. Butt, K. Higashitani, A straightforward way to form close-packed TiO<sub>2</sub> particle monolayers at an air/water interface, Langmuir 27(3) (2011) 887–894.
  5. Millett P.C., Y.U. Wang, Diffuse-interface field approach to modeling arbitrarily-shaped particles at fluid-fluid interfaces, J. Colloid Interface Science 353(1) (2011) 46–51.
  6. Shrestha A., K. Bohinc, S. May, Immersion depth of positively versus negatively charged nanoparticles at the air-water interface: A Poisson-Boltzmann model, Langmuir 28(40) (2012) 14301–14307.
  7. Bleibel J., A. Dominguez, M. Oettel, Colloidal particles at fluid interfaces: effective interactions, dynamics, and a gravitational-like instability, European Physical Journal: Special Topics 222(11) (2013) 3071–3087.
  8. Leandri J., A. Wurger, Trapping energy of a spherical particle on a curved liquid interface, Journal of Colloid and Interface Science 405 (2013) 249–255.
  9. Geisel K., L. Isa, W. Richtering, The compressibility of pH-sensitive microgels at the oil-water interface: higher charge leads to self-repulsion, Angewandte Chemie – International Edition 53(19) (2014) 4905–4909.
  10. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междуфазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
  11. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, Langmuir 31(49) (2015) 13290–13302.
  12. Morris G., K. Hadler, J. Cililfers, Particles in thin liquid films and at interfaces, Current Opinion in Colloid and Interface Science 20(2) (2015) 98–104.
  13. Silverberg G.J., P. Pearce, C.D. Vecitis, Controlling self-assembly of reduced graphene oxide at the air-water interface: Quantitative evidence for long-range attractive and many-body interactions, ACS Applied Materials and Interfaces 7(6) (2015) 3807–3815.
  14. Cappelli S., Magnetic particles at fluid-fluid interfaces: microrheology, interaction and wetting, PhD Thesis, Technical University, Eindhoven, 2016.



15. Lotito V., T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
  16. Kang D.W., M. Lee, K.H. Kim, M. Xia, S.H. Im, B.J. Park, Electrostatic interactions between particles through heterogeneous fluid phases, *Soft Matter* 13(37) (2017) 6647–6658.
  17. Arab D., A. Kantzas, S.L. Bryant, Anoparticle stabilized oil in water emulsions: A critical review, *Journal of Petroleum Science and Engineering* 163 (2018) 217–242.
  18. Kuleshova V.L., E.V. Panfilova, E.P. Prohorov, Automated device for vertical deposition of colloidal opal films, *RusAutoCon* (2018) 141326.
  19. Lim J.H., J.Y. Kim, D.W. Kang, K.H. Choi, S.J. Lee, S.H. Im, B.J. Park, Heterogeneous capillary interactions of interface-trapped ellipsoid particles using the trap-release method, *Langmuir* 34(1) (2018) 384–394.
  20. Wu L., X. Wang, G. Wang, G. Chen, In situ X-ray scattering observation of two-dimensional interfacial colloidal crystallization, *Nature Communications* 9(1) (2018) 1335.
  21. Huang D.E., R.N. Zia, Sticky-probe active microrheology: Part 2. The influence of attractions in non-Newtonian flow, *Journal of Colloid and Interface Science* 562 (2020) 293–306.
  22. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
  23. Dani A., Y. Mohsen, C. Maldarelli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
  24. De Soete F., N. Passade-Boupat, L. Tallini, F. Lequeux, E. Verneuil, Stability of particle laden interfaces of drops following through a pore, *Physical Review Fluids* 7 (2022) 104002.
  25. Nandy M., B.B. Lahiri, J. Philip, Inter-droplet force between magnetically polarizable Pickering oil-in-water nanoemulsions stabilized with  $\gamma\text{-Al}_2\text{O}_3$  nanoparticles: Role of electrostatic and electric dipolar interactions, *Journal of Colloid and Interface Science* 607 (2022) 1671–1686.
  26. Lobel B.T., M.J. Hobson, P.M. Ireland, G.B. Webber, C.A. Thomas, H. Ogino, S. Fujii, E.J. Wanless, Interparticle repulsion of microparticles delivered to a pendent drop by an electric field, *Langmuir* 38 (2022) 670–679.
  27. Qiao Y., X. Ma, Z. Liu, M.A. Manno, N.C. Keim, X. Cheng, Tuning the rheology and microstructure of particle-laden fluid interfaces with Janus particles, *Journal of Colloid and Interface Science* 618 (2022) 241–247.
- 151 K.D. Danov, P.A. Kralchevsky, Capillary forces between particles at a liquid interface: General theoretical approach and interactions between capillary multipoles, *Adv. Colloid Interface Sci.* 154 (2010) 91–103. (брой: 153)**
1. Guzowski J., M. Tasinkevych, S. Dietrich, Free energy of colloidal particles at the surface of sessile drops, *European Physical Journal E* 33(3) (2010) 219–242.
  2. Lewadnowski E.P., M. Cavallaro, L. Botto, J.C. Bernate, V. Garbin, K.J. Stebe, Orientation and self-assembly of cylindrical particles by anisotropic capillary interactions, *Langmuir* 26(19) (2010) 15142–15154.
  3. Tasinkevych M., D. Andrienko, Colloidal particles in liquid crystal films and at interfaces, *Condensed Matter Physics* 13(3) (2010) Art. 33603.
  4. Cavallaro M., L. Botto, E.P. Lewandowski, M. Wang, K.J. Stebe, Curvature-driven capillary migration and assembly of rod-like particles, *PNAS* 108(52) (2011) 20923–20928.
  5. Gharbi M.A., M. Nobili, G. Prevod, P. Galatola, J.B. Fournier, C. Blank, Behavior of colloidal particles at a nematic liquid crystal interface, *Soft Matter* 7(4) (2011) 1467–1471.
  6. Guzowski J., M. Tasinkevych, S. Dietrich, Capillary interactions in Pickering emulsions, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 84(3) (2011) 031401.
  7. Janjua M., S. Nudurupati, P. Singh, N. Aubry, Electric field-induced self-assembly of micro- and nanoparticles of various shapes at two-fluid interfaces, *Electrophoresis* 32(5) (2011) 518–526.
  8. Millett P.C., Y.U. Wang, Diffuse-interface field approach to modeling arbitrarily-shaped particles at fluid-fluid interfaces, *J. Colloid Interface Science* 353(1) (2011) 46–51.
  9. Morris G., S.J. Neethling, J.J. Cilliers, A model for investigating the behaviour of non-spherical particles at interfaces, *J. Colloid Interface Sci.* 354(1) (2011) 380–385.
  10. Yunker P.J., T. Still, M.A. Lohr, A.G. Yodh, Suppression of the coffee-ring effect by shape-dependent capillary interactions, *Nature* 476(7360) (2011) 308–311.
  11. Botto L., E.P. Lewandowski, M. Cavallaro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
  12. Chatterjee N., S. Lapin, M. Fluri, Capillary forces between sediment particles and an air-water interface, *Environmental Science and Technology* 46(8) (2012) 4411–4418.

13. Chen X.-C., H.-M. Li, F. Fang, Y.-W. Wu, M. Wang, G.-B. Ma, Y.-Q. Ma, D.-J. Shu, E.-W. Peng, Confinement-induced ordering in dewetting and phase separation of polymer blend films, *Advanced Materials*, 24(19) (2012) 2637–2641.
14. De Graaf J., Anisotropic nanocolloids: self-assembly, interfacial adsorption, and electrostatic screening, PhD Thesis, Utrecht University, 2012.
15. Dixit H.N., G.M. Homsy, Capillary effects on floating cylindrical particles, *Physics of Fluids* 24 (2012) 122102.
16. Tsotsalas M., A. Umemura, F. Kim, Y. Sakata, J. Reboul, S. Kitagawa, S. Furukawa, Crystal morphology-directed framework orientation in porous coordination polymer films and freestanding membranes via Langmuir-Blodgett, *Journal of Material Chemistry* 22(20) (2012) 10159–10165.
17. Yunker P.J., Coffee-rings and glasses: colloids out of equilibrium, PhD Thesis, University of Pennsylvania, 2012.
18. Yunker P.J., G. Yodh, T. Still, Colloidal shape effects in evaporating drops, *Proceedings of the International School of Physics “Enrico Fermi”* 184 (2012) 447–481.
19. Голинко В.М., И.С. Чекман, А.М. Пузиренко, Н.О. Горчакова, Рол капилляри в протоканни природних нанопроцесив, *Теоретична медицина* 4 (2012) 5–9.
20. Aramrak S., M. Flury, J.B. Harsh, R.L. Zollars, H.P. Davis, Does colloid shape affect detachment of colloids by a moving air-water interface? *Langmuir* 29(19) (2013) 5770–5780.
21. Bleibel J., A. Dominguez, M. Oettel, Colloidal particles at fluid interfaces: effective interactions, dynamics, and a gravitational-like instability, *European Physical Journal: Special Topics* 222(11) (2013) 3071–3087.
22. Chatterjee N., Capillary forces on sediment particles: experimental measurements and theoretical estimates, PhD Thesis, Washington State University, 2013.
23. Chatterjee N., M. Flury, Effect of particle shape on capillary forces acting on particles at the air-water interface, *Langmuir* 29(25) (2013) 7903–7911.
24. Cheng T.-L., Y.U. Wang, Shape-anisotropic particles at curved fluid interfaces and role of Laplace pressure: a computational study, *Journal of Colloid and Interface Sci.* 402 (2013) 267–278.
25. Dixit H.N., G.M. Homsy, The elastic Landau-Levich problem, *Journal of Fluid Mechanics* 732 (2013) 5–28.
26. Fleury B., Nanoparticules, luminescentes d'ions lanthanides: Mécanisme de formation et applications en couches minces, PhD Thesis, Ecole Polytechnique, Paris, 2013.
27. Huang X., Y. Liu, X. Zhou, Y. Diao, Formation of oil-soluble uniform anatase titania nanoparticles and their characterization, *Colloid and Surfaces A* 423 (2013) 115–123.
28. Morgan A.R., N. Ballard, L.A. Rochford, G. Nurumbetov, T.S. Skelton, S.A.F. Bon, Understanding the multiple orientations of isolated superellipsoidal hematite particles at the oil-water interface, *Soft Matter* 9(2) (2013) 487–491.
29. Solovov A.A., S. Sanchez, O.G. Schmidt, Collective behavior of self-propelled catalytic micromotors, *Nanoscale* 5(4) (2013) 1284–1293.
30. Van Hooghten R., L. Imperiali, V. Boeckx, R. Sharma, J. Vermant, Rough nanoparticles at the air-water interfaces: their structure, rheology and applications, *Soft Matter* 9(45) (2013) 10791–10798.
31. Zang D., Z. Chen, Y. Zhang, K. Lin, X. Geng, B.P. Binks, Effect of particle hydrophobicity on the properties of liquid water marbels, *Soft Matter* 9(20) (2013) 5067–5073.
32. Aramrak S., M. Fluri, J.B. Harsh, R.L. Zollars, Colloid mobilization and transport during capillary fringe fluctuations, *Environmental Science and Technology* 48(13) (2014) 7272–7279.
33. Bleibel J., A. Dominguez, M. Oettel, S. Dietrich, Capillary attraction induced collapse of colloidal monolayers at fluid interfaces, *Soft Matter* 10(23) (2014) 4091–4109.
34. Bolintineanu D.S., G.S. Grest, J.B. Lechman, F. Pierce, S.J. Plimpton, P.R. Shunk, Particle dynamics modeling methods for colloid suspensions, *Comp. Part. Mech.* 1 (2014) 321–356.
35. Chokprasombat K., C. Sirisathitkui, P. Rathphonsan, Liquid-air interface self-assembly: A facile method to fabricate long-range nanoparticle monolayers, *Surface Science* 621 (2014) 162–167.
36. Coertjens S., P. Moldenaers, J. Vermant, L. Isa, Contact angle of microellipsoids at fluid interfaces, *Langmuir* 30(15) (2014) 4289–4300.
37. Ghosh S.K., A.G. Cherstvy, R. Metzler, Deformation propagation in responsive polymer network films, *J. Chemical Physics* 141(7) (2014) 074903.
38. Pawsey A.C., J.S. Lintuvuori, Colloidal particles at chiral liquid crystal interfaces, *Liquid Crystals Today* 23(2) (2014) 32–37.
39. Scenev V., Electronic properties of graphene and other carbon-based hybrid materials for flexible electronics, PhD Thesis, Humboldt-Universität zu Berlin, Mathematisch-Naturwissenschaftliche Fakultät, 2014.
40. Schwenke K., Modeling of interface structure and dynamics in nano-composite materials, PhD Thesis, ETH-Zürich, 2014.

41. Soligno G., M. Dijkstra, R. van Roij, The equilibrium shape of fluid-fluid interfaces, *The Journal of Chemical Physics* 141 (2014) 244702.
42. Tang Y., W. He, S. Wang, Z. Tao, L. Cheng, The superiority of silver nanoellipsoids synthesized via a new approach in suppressing the coffee-ring effect during drying and film formation processes, *Nanotechnology* 26(12) (2014) 125602.
43. Cappelli S., Q. Xie, J. Harting, A.M. de Jong, M.W.J. Prins, Dynamic wetting: status and prospective of single particle based experiments and simulations, *New Biotechnology* 32(5) (2015) 420–432.
44. Cooke I.R., C.J. Lang, L.V. White, S.J. Wakes, S.J. Sowerby, Analysis of menisci formed on cones for single field of view parasite egg microscopy, *Journal of Microscopy* 257(2) (2015) 133–141.
45. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, *Langmuir* 31(49) (2015) 13290–13302.
46. Davis G.B., Modelling colloidal particles adsorbed at fluid-fluid interfaces, PhD Thesis, University College London, 2015.
47. Deshmukh O., D. van den Ende, M.C. Stuart, F. Mugele, M.H.G. Duits, Hard and soft colloids at fluid interfaces: Adsorption, interactions, assembly, and rheology, *Advances in Colloid and Interface Science* 222 (2015) 215–227.
48. Evdokimov S.I., V.S. Evdokimov, Processing ores and anthropogenic Cu-Ni feedstock with the application of jet air-stream flotation, *Russian Journal of Non-Ferrous Metals* 56(3) (2015) 229–234.
49. Lash M.H., M.V. Fedorchak, S.R. Little, J.J. McCarthy, Fabrication and characterization of non-brownian particle-based crystals, *Langmuir* 31(3) (2015) 898–905.
50. Morris G., K. Hadler, J. Cililfers, Particles in thin liquid films and at interfaces, *Current Opinion in Colloid and Interface Science* 20(2) (2015) 98–104.
51. Sabapathy M., V. Kollabattula, M.G. Basavaraj, E. Mani, Visualization of the equilibrium position of colloidal particles at fluid-water interfaces by deposition of nanoparticles, *Nanoscale* 7(33) (2015) 13868–13876.
52. Sarikhani K., K. Jeddi, R.B. Thomson, C.B. Park, P. Chen, Adsorption of surface modified silica nanoparticles to the interface of melt poly(lactic acid) and supercritical carbon dioxide, *Langmuir* 31(20) (2015) 5571–5579.
53. Tiwari B., D. Zhang, D. Winslow, C.H. Lee, B. Hao, Y.K. Yap, A simple and universal technique to extract one- and two-dimensional nanomaterials from contaminated water, *ACS Applied Materials and Interfaces* 7(47) (2015) 26108–26116.
54. Yao L., N. Shanfi-Mood, I.B. Liu, K.J. Stebe, Capillary migration of microdisks on curved interfaces, *Journal Colloid Interface Science* 449 (2015) 436–442.
55. Barman S., G.F. Christopher, Role of capillarity and microstructure on the interfacial viscoelasticity of particle laden interfaces, *Journal of Rheology* 60(1) (2016) 35–45.
56. Cappelli S., Magnetic particles at fluid-fluid interfaces: microrheology, interaction and wetting, PhD Thesis, Technical University, Eindhoven, 2016.
57. Feng D.-X., A.V. Nguyen, The floatability of single spheres versus their pairs on the water surface, *Langmuir* 32(51) (2016) 13627–13634.
58. Hausmann R., Effective field theory of particle interactions mediated by fluid surfaces, PhD Thesis, Carnegie Mellon University, 2016.
59. Jeridi H., M. Tasinkevich, T. Othman, C. Blanc, Colloidal particles in thin nematic films, *Langmuir* 32(35) (2016) 9097–9107.
60. Liu G., L. Zhou, Q. Fan, L. Chai, J. Shao, The vertical deposition self-assembly process and the formation mechanism of poly(styrene-co-methacrylic acid) photonic crystal on polyester fabrics, *Journal of Material Science* 51(6) (2016) 2859–2868.
61. Ooi C. H., A.V. Nguyen, G.M. Evans, D.V. Dao, N.-T. Nguyen, Measuring the coefficient of friction of a small floating liquid marble, *Scientific Reports* 6 (2016) 38346.
62. Soligno G., M. Dijkstra, R. Van Roij, The equilibrium shape of fluid-fluid interfaces: Derivation and a new numerical method for young's and young-laplace equations, *Journal of Chemical Physics* 141(24) (2016) 244702.
63. Xie Q., G.B. Davies, J. Harting, controlled capillary assembly of magnetic Janus particles at fluid-fluid interfaces, *Soft Matter* 12(31) (2016) 6566–6574.
64. Yoshi M., H. Yamamoto, Y. Sumino, S. Nakata, Self-oscillating gel accelerated while sensing the shape of an aqueous surface, *Langmuir* 32(16) (2016) 3901–3906.
65. Zanini N., L. Isa, Particle contact angles at fluid interfaces: Pushing the boundary beyond hard uniform spherical colloids, *Journal of Physics Condensed Matter* 28(31) (2016) 313002.
66. Anjali T.G., M.G. Basavaraj, Shape-induced deformation, capillary bridging, and self-assembly of cuboids at the fluid-fluid interface, *Langmuir* 33 (2017) 791–801.
67. Cappelli S., A.M. De Jong, J. Baudry, M.W.J. Prins, Interparticle capillary forces at fluid-fluid interface with strong polymer-induced aging, *Langmuir* 33 (2017) 696–705.

68. Feng D.-X., A.V. Nguyen, Contact angle variation on single floating spheres and its impact on the stability analysis of floating particles, *Colloids and Surfaces A* 520 (2017) 442–447.
69. Hamdana G., T. Sudkamp, M. Descoins, D. Mangelink, L. Caccamo, M. Bertke, H.S. Wasisto, H. Bracht, E. Peiner, Towards fabrication of 3D isotopically modulated vertical silicon nanowires in selective areas by nanosphere lithography, *Microelectronic Engineering* 179 (2017) 74–82.
70. Hauser A.W., nanocomposite polymer networks for reconfigurable materials, PhD Thesis, University of Massachusetts, 2017.
71. Huang S., K. Gawlitza, R. Von Klitzing, W. Steffen, G.K. Aurenhammer, Structure and rheology of microgel monolayers at the water/oil interface, *Macromolecules* 50(9) (2017) 3680–3689.
72. Kim P.Y., Particles Confined by Fluid Interfaces: Imaging Particle Motion, Interface Deformation and Capillary Forces, PhD Thesis, University of Massachusetts, 2017.
73. Lone S., J.M. Zhang, I.U. Vakarelski, E.Q. Li, S.T. Thoroddsen, Evaporative lithography in open microfluidic channel networks, *Langmuir* 33(11) (2017) 2861–2871.
74. Luo A.M., Rheology and thermodynamics of particle-stabilized fluid interfaces, PhD Thesis, Eth Zurich, 2017.
75. Niu R., T. Palberg, T. Speck, Self-assembly of colloidal molecules due to self-generated flow, *Physical Review Letters* 119(2) (2017) 028001.
76. Pandey A., S. Karpitschka, L.S. Lubbers, J.H. Weijss, L. Botto, S. Das, N. Andreotti, J.H. Snoeijer, Dynamical theory of the inverted cheerios effect, *Soft Matter* 13(35) (2017) 6000–6010.
77. Petrova A.B., C. Herold, Petrov E.P., conformations and membrane-driven self-organization of rodlike fd virus particles on freestanding lipid membranes, *Soft Matter* 13(39) (2017) 7172–7187.
78. Rauch A., M. Rey, L. Barbera, M. Zanini, M. Karg, L. Isa, Compression of hard core-soft shell nanoparticles at liquid-liquid interfaces: Influence of the shell thickness, *Soft Matter* 13(1) (2017) 158–169.
79. Zhou T., A. McCue, Y. Ghadar, I. Bako, A.E. Clark, Structural and dynamic heterogeneity of capillary wave fronts at aqueous interfaces, *Journal of Physical Chemistry B* 121(38) (2017) 9052–9062.
80. Zhou X., F. Zhang, Bifurcation of partially immersed plate between two parallel plates, *Journal of Fluid Mechanics* 817 (2017) 122–137.
81. Евдокимов С.И., Т.Е. Герасименко, извлечения золота из руд флотацией в условиях тепломассообмена между фазами, *Вестник МГТУ им. Г.И. Носова* 15(4) (2017) 10–17.
82. Евдокимов С., В. Евдокимов, Технологии переработки отходов россыпной золотодобычи. Экология и промышленность России 21(9) (2017) 10–15.
83. Arab D., A. Kantzas, S.I. Briant, Nanoparticle stabilized oil in water emulsions: A critical review, *Journal of Petroleum Science and Engineering* 163 (2018) 217–242.
84. Daniel M., J. Reznickova, M. Handl, A. Iglic, V. Kralj-Iglic, Clustering and separation of hydrophobic nanoparticles in lipid bilayer explained by membrane mechanics, *Scientific Reports* 8(1) (2018) 10810.
85. De Corato M., V. Garbin, Capillary interaction between dynamically forced particles adsorbed at a planar interface and on a bubble, *Journal of Fluid Mechanics* 847 (2018) 71–92.
86. Evdokimov S.I., T.E. Gerasimenko, Properties of wetting liquid films in flotation processes, *Mining Informational and Analytical Bulletin* 6 (2018) 142–152.
87. Grosjean G., M. Hubert, N. Vandewalle, Magnetocapillary self-assemblies: Locomotion and micromanipulation along a liquid interface, *Advances in Colloid and Interface Science* 255 (2018) 84–93.
88. Grosjean G., Magnetocapillary self-assemblies: Interfacial locomotion at low Reynolds number, PhD Thesis, Liege University, 2018.
89. Laal-Dehghani N., R. Khare, G.F. Christopher, 2D stokesian approach to modeling flow induced deformation of particle laden interfaces, *Langmuir* 34(3) (2018) 904–916.
90. Lee J., The static profile for a floating particle, *Colloids and Interfaces* 2 (2018) 18.
91. Ni S., L. Isa, H. Wolf, Capillary assembly as a tool for the heterogeneous interaction of micro- and nanoscale objects, *Soft Matter* 14(16) (2018) 2978–2995.
92. Ooi C.H., J. Jin, K.R. Sreejith, A.V. Nguyen, G.M. Evans, Nguyen N.-T., Manipulation of a floating liquid marble using dielectrophoresis, *Lab on a Chip* 18(24) (2018) 3770–3779.
93. Wu L., X. Wang, G. Wang, G. Chen, In situ X-ray scattering observation of two-dimensional interfacial colloidal crystallization, *Nature Communications* 9(1) (2018) 1335.
94. Zanini N., I. Lesov, E. Marini, C.-P. Hsu, C. Marshelke, A. Synytska, S.E. Anachkov, L. Isa, Detachment of rough colloids from liquid-liquid interfaces, *Langmuir* 34(16) (2018) 4861–4873.
95. Zhang F., X. Zhou, Hydrostatics and stability of floating elliptical cylinder with surface tension effects for different eccentricities and Bond numbers, *Journal of Physics: Conference Series* 1141 (2018) 012002.
96. Anjali T.G., M.G. Basavaraj, Shape-anisotropic colloids at interfaces, *Langmuir* 35 (2019) 3–20.
97. Ballard N., A.D. Law, S.A.F. Bon, Colloidal particles at fluid interfaces, *Soft Matter* 15(6) (2019) 1186–1199.
98. Forth J., P.Y. Kim, G. Xie, X. Liu, B.A. Helms, T.P. Russell, Building reconfigurable devices using complex liquid-fluid interfaces, *Advances Materials* 31 (2019) 1806370.



99. Ho I., G. Pucci, D.M. Harris, direct measurements of capillary attraction between floating disks, *Physical Review Letters* 123 (2019) 254502.
100. Huang D.E., R.N. Zia, Sticky-probe active microrheology: Part 2. The influence of attractions on non-Newtonian flow, *Journal of Colloid and Interface Science* 562 (2020) 293–306.
101. Laal-Dehghani N., G.F. Christopher, 2D stockesian simulation of particle aggregation at quiescent air/oil-water interfaces, *Journal of Colloid and Interface Science* 553 (2019) 259–268.
102. Lagarde A., C. Josserand, S. Protiere, The capillary interaction between pairs of granular rafts, *Soft Matter* 15(28) (2019) 5695–5702.
103. Liu J., S. Li, Capillary-driven migration of small objects: A critical review, *European Physical Journal E* 42 (2019) 1.
104. Luo A.M., J. Vermant, P. Ilg, Z. Zhang, L.M.C. Sagis, Self-assembly of colloidal particles at fluid-fluid interfaces with and empirical pair potential, *Journal of Colloid and Interface Science* 534 (2019) 205–214.
105. Maestro A., E. Guzman, Colloids at fluid interfaces, *Processes* 7 (2019) 942.
106. Rahman S.E., N. Laal-Dehghani, G.F. Christopher, Interfacial viscoelasticity of self-assembled hydrophobic/hydrophilic particles at an air/water interface, *Langmuir* 35 (2019) 13116–13125.
107. Rahman S.E., N. Laal-Dehghani, S. Barman, G.F. Christofer, Modifying interfacial interparticle forces to alter microstructure and viscoelasticity of densely packed particle laden interfaces, *Journal of Colloid and Interface Science* 536 (2019) 30–41.
108. Soligno G., D. Vanmaekelbergh, Understanding the formation of PbSe honeycomb superstructures by dynamics simulations, *Physical Review X* 9 (2019) 021015.
109. Vasudevan S.A., Dynamics and wetting of heterogeneous colloids at liquid interfaces, PhD Thesis, ETH Zurich, 2019.
110. Behrens S.H., Oil-coated bubbles in particle suspensions, capillary foams, and related opportunities in colloidal multiphase systems, *Current Opinion in Colloid and Interface Science* 50 (2020) 101384.
111. Bi W., E.K.L. Yeow, Single-particle tracking of the formation of a pseudoequilibrium state prior to charged microgel cluster formation at interfaces, *NPG Asia Materials* 12 (2020) 72.
112. Dietrich K., Artificial microswimmers at liquid-liquid interfaces, PhD Thesis, ETH, Zurich, 2020.
113. Flores-Tandy L.M., A.V. Garcia-Monjaraz, E.A. van Nierop, E.A. Vazquez-Martinez, J. Ruiz-Garcia, S. Mejia-Rosales, Fractal aggregates formed by ellipsoidal colloidal particles at the air/water interface, *Colloids and Surfaces A* 590 (2020) 124477.
114. Goggin G.M., H. Zhang, E.M. Miller, J.R. Samaniuk, Interference provide clarity: Direct observation of 2D materials at fluid-fluid interfaces, *ACS Nano* 14 (2020) 777–790.
115. Ji X., X. Wang, Y. Zhang, D. Zang, Interfacial viscoelasticity and jamming of colloidal particles at fluid-fluid interfaces: A review, *Reports on Progress in Physics* 82 (2020) 126601.
116. Kaszas C., Behavior of alumina powder fed into molten electrolytic bath, PhD Thesis, University of Quebec, Canada, 2020.
117. Liu J., S.P. Ganesan, X. Li, A. Garg, A. Singhal, K.D. Dosetti, J. Feng, Dynamics of biochar-silty clay interaction using in-house fabricated cyclic loading apparatus: A case study of coastal clay and novel peach biochar from the qingdao region of China, *Sustainability* 12 (2020) 2599.
118. Loudet J.-C., M. Qiu, J. Hemauer, J.J. Feng, Drag force on a particle straddling a fluid interface: influence of interfacial deformation, *The European Physical Journal E* 43 (2020) 13.
119. Martinez-Pedrero F., Static and dynamic behavior of magnetic particles at fluid interfaces, *Advances Colloid Interface Science* 284 (2020) 102233.
120. Shao X., F. Duan, Y. Hou, X. Zhou, Role of surfactant in controlling the deposition pattern of a particle-laden droplet: Fundamentals and strategies, *Advances in Colloid and Interface Science* 275 (2020) 102049.
121. Vandewalle N., M. Poty, N. Vanesse, J. Caprasse, T. Defize, C. Jerome, Switchable self-assembled capillary structures, *Soft Matter* 16 (2020) 10320–10325.
122. Weijertze H.M.H., W.K. Kegel, M. Zanini, Patchy rough colloids as Pickering stabilizers, *Soft Matter* 16 (2020) 8002–8012.
123. Wouters M., O. Aouane, M. Sega, J. Harting, Capillary interactions between soft capsules protruding through thin liquid films, *Soft Matter* 16 (2020) 10910–10920.
124. Das S., J. Koplik, P. Somasundaran, C. Maldarelli, Pairwise hydrodynamic interactions of spherical colloids at a gas-liquid interface, *Journal of Fluid Mechanics* 915 (2021) A99.
125. Filatov S.V., E.V. Lebedeva, A.A. Levchenko, L.P. Mezhev-Deglin, A.V. Poplevin, Pareto distribution in the system of polyamide particle clusters on the water surface, *Results in Physics* 29 (2021) 104677.
126. Hemauer J., M. Qiu, J.J. Feng, J.-C. Loudet, Particle rotation speeds up capillary interactions, *The European Physical Journal E* 44 (2021) 30.
127. Jankowski M., M. Saedi, F. La Porta, A.C. Manikas, C. Tsakonas, J.S. Cingolani, M. Andersen, M. De Voogd, G.J.C. Van Baarle, K. Reuter, C. Galiotis, G. Renaut, Real-time multiscale monitoring and tailoring of graphene growth on liquid copper, *ACS Nano* 15 (2021) 9638–9648.

128. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
129. Pei H., J. Shan, X. Cao, G. Zhang, P. Jiang, Research progress on nanoparticle-stabilized emulsions for enhanced oil recovery, *Caillao Daobao/Materials Reports* 35 (2021) 13227–13231.
130. Pirozzi A., R. Capuano, R. Avolio, G. Gentile, G. Ferrari, F. Dosni, O/W Pickering emulsions stabilized with cellulose nanofibrils produced through different mechanical treatments, *Foods* 10 (2021) 1886.
131. Calhoun S.G.K., V. Chandran Suji, G.G. Fuller, Foaming and antifoaming in non-aqueous liquids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101558.
132. Dani A., Y. Mohsen, C. Maldarelli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
133. Laal-Dehghani N., G.F. Christopher, Effects of interfacial shear on particle aggregation at an oil/water interface, *Langmuir* 38 (2022) 9621–9630.
134. Loudet J.-C., A. Choudhury, M. Qiu, J.J. Feng, Particle trapped at the isotropic-nematic liquid crystal interface: Elastocapillary phenomena and drag forces, *Physical Review E* 105 (2022) 044607.
135. Ma X., N.N. Nguyen, A.V. Nguyen, A review on quantifying the influence of lateral capillary interactions on the particle floatability and stability of particle-laden interfaces, *Advances in Colloid and Interface Science* 307 (2022) 102731.
136. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Capillary interaction between arbitrarily-shaped inclusions at the tgas/steel interface, *Metallurgical and Material Transactions B* 53 (2022) 1894–1903.
137. Qui Z., A. Malfliet, B. Blanpain, M. Guo, A sub-particle model for capillary interaction between arbitrarily-shaped nonmetallic inclusions: Gravity induced, *Metallurgical and Material Transactions B* 53 (2022) 3505–3523.
138. Qui Z., A. Malfliet, B. Blanpain, M. Guo, A sub-particle model for capillary interaction between arbitrarily-shaped nonmetallic inclusions with and undulated contact line, *Metallurgical and Material Transactions B* 53 (2022) 3442–3458.
139. Stock S., R. von Klitzing, Microgels at droplet interfaces of water-in-oil emulsions – challenges and progress, *Current Opinion in Colloid and Interface Science* 58 (2022) 101561.
140. Zhou Z., P.M. Vlahovska, M.J. Miksis, Drag force on spherical particles trapped at a liquid interface, *Physical Review Fluids* 7 (2022) 124001.
141. Delens M., Y. Collard, N. Vandewalle, Induced capillary dipoles in floating particle assemblies, *Physical Review Fluids* 8 (2023) 074001.
142. Emelyanenko A.M., L.B. Boinovich, Effect of dispersed particles on surface tension, wetting and spreading of nanofluids, *Current Opinion in Colloid and Interface Science* (2023) 101762.
143. Evdokimov S.I., A.K. Makoeva, R.N. Maksimov, D.I. Dyatlova, Development of a method and apparatus for measuring the forces in particle contacts under conditions of flotation of gold microdispersions, *Sustainable Development of Mountain Territories* 15 (2023) 81–96.
144. Fonseca J., L. Meng, I. Imaz, D. Maspoch, Self-assembly of colloidal metal-organic framework (MOF) particles, *Chemical Society Reviews* 52 (2023) 2528–2543.
145. Khalil I.E., J. Fonseca, M.R. Reithofer, T. Eder, J.M. Chin, Tackling orientation of metal-organic frameworks (MOFs): The quest to enhance MOF performance, *Coordination Chemistry Reviews* 481 (2023) 215043.
146. Lee Y.K., Applications of lattice Boltzmann method combined with smoothed profile method for particulate flows: a brief review, *Korea Australia Rheology Journal* 35 (2023) 213–228.
147. Liu Y., S. Lin, X. Gao, Z. Wang, S. Yang, J. Liu, Three-Dimensional Coffee-Ring Effect Induced Deposition on Foam Surface for Enhanced Photothermal Conversion, *Small* 19 (2023) 2207822.
148. Metzmacher J., Assembly and manipulation of floating components at liquid interface, PhD Thesis, Liege University, 2023.
149. Rahman Md A., P.J. Beltramo, Rough colloids at fluid interfaces: from fundamental science to applications, *Frontiers in Physics* 11 (2023) 1248706.
150. Shulman D., Measuring lateral capillary forces on floating particles using the Moses effect, *Review of Scientific Instruments* 94 (2023) 065110.
151. Ugwu D.I., J. Conradie, Bidentate ligands in self-assembly: Synthesis, structure and applications, *Journal of Molecular Structure* 1293 (2023) 136275.
152. Wolvington E., L. Yeager, Y. Gao, C.J. Zimmermann, D.W.M. Marr, Paddlebots: Translation of Rotating Colloidal Assemblies near an Air/Water Interface, *Langmuir* 39 (2023) 7846–7851.
153. Linares-Moreau M., L.A. Brandner, M.J. Velasquez-Hernandez, J. Fonseca, Y. Benseghir, J.M. Chin, D. Maspoch, C. Doonan, P. Falcaro, Fabrication of oriented polycrystalline MOF superstructures, *Advanced Materials* 36 (2024) 2309645.

- 150 N.C. Christov, K.D. Danov, Y. Zeng, P.A. Kralchevsky, R. von Klitzing, **Oscillatory structural forces due to nonionic surfactant micelles: data by colloidal-probe AFM vs. theory**, *Langmuir* 26(2) (2010) 915–923. (брой: 42)
1. Nikolov A., K. Kondiparty, D. Wasan, Nanoparticle self-structuring in a nanofluid film spreading on a solid surface, *Langmuir* 26(11) (2010) 7665–7670.
2. Wei Y.-T., S.-C. Wu, Development of a trajectory model for predicting attachment of submicrometer particles in porous media: Stabilized NZVI as a case study, *Environmental Science and Technology* 44(23) (2010) 8996–9002.
3. Tabor R.F., H. Lockie, D.Y.C. Chan, F. Grieser, I. Grillo, K.J. Mutch, R.R. Dagastine, Structural forces in soft matter systems: Unique flocculation pathways between deformable droplets, *Soft Matter* 7(24) (2011) 11334–11344.
4. Banerjee S., P. Mulder, J.M. Kleijn, M.A.C. Stuart, Ternary fluid mixture confined between surfaces: Surface-induced phase transition and long-range oscillatory forces, *Chemistry Letters* 41(10) (2012) 1113–1115.
5. Hu G.-H., Influences of oscillatory structural forces on dewetting of nanoparticle-laden ultra-thin films, *Acta Mechanica Sinica/Lixue Xuebao* 28(3) (2012) 737–745.
6. Sinha P., I. Popa, M. Finessi, F.J.M. Ruiz-Cabello, I. Szilagyi, P. Maroni, M. Borkovec, Exploring forces between individual colloidal particles with the atomic force microscopy, *Chimia* 66(4) (2012) 214–217.
7. Wei X., X. Gong, T. Ngai, Interaction between solid surfaces mediated by polyethylene oxide polymers: effect of polymer concentration, *Langmuir* 29(35) (2013) 11038–11045.
8. Ding Z., J. Li, The fatigue constitutive model of concrete based on micro-meso mechanics, *Chinese Journal of Theoretical and Applied Mechanics* 46(6) (2014) 911–919.
9. Erramreddy V.V., S. Ghosh, Influence of emulsifier concentration on nanoemulsion gelation, *Langmuir* 30(37) (2014) 11062–11074.
10. Gong X., Z. Wang, T. Ngai, Direct measurements of particle-surface interactions in aqueous solutions with total internal reflection microscopy, *Chemical Communication* 50(50) (2014) 6565–6507.
11. Briscoe W.H., Depletion forces between particles immersed in nanofluids, *Current Opinion in Colloid and Interface Science* 20(1) (2015) 46–53.
12. Browne C., R.F. Tabor, F. Grieser, R.R. Dagastine, Direct AFM force measurements between air bubbles in aqueous monodisperse sodium poly(styrene sulfonate) solutions, *J. Colloid Interface Sci.* 451 (2015) 69–77.
13. Browne C., R.F. Tabor, F. Grieser, R.R. Dagastine, Direct AFM force measurements between air bubbles in aqueous polydisperse sodium poly(styrene sulfonate) solutions: Effect of collision speed, polyelectrolyte concentration and molar mass, *J. Colloid Interface Sci.* 449 (2015) 236–245.
14. Erramreddy V.V., S. Ghosh, Influence of droplet size on repulsive and attractive nanoemulsion gelation, *Colloids Surfaces A* 484 (2015) 144–152.
15. Herman D.J., Controlling colloidal stability using highly charged nanoparticles, PhD Thesis, Virginia Polytechnic Institute and State University, 2015.
16. Amano K.-I., Y. Liang, K. Miyazawa, K. Kobayashi, K. Hashimoto, K. Fukami, N. Nishi, T. Sakka, H. Onishi, T. Fukuma, Number density distribution of solvent molecules on a substrate: A transform theory for atomic force microscopy, *Physical Chemistry Chemical Physics* 18(23) (2016) 15534–15544.
17. Beltramo P. J. Vermant, Simple optical imaging of nanoscale features in free-standing film, *ACS Omega* 1(3) (2016) 363–370.
18. Browne C.I., Depletion and structural force interactions of bubbles in aqueous polyelectrolyte solutions, PhD Thesis, University of Melbourne, 2016.
19. Ahmadi M., R. Ansari, M. Darvizeh. H. Rouhi, Effects of fluid environment properties on the nonlinear vibration of AFM piezoelectric microcantilevers, *Journal of Ultrafine Grained and Nanostructured Materials* 50 (2017) 117–123.
20. Helfricht N., A. Mark, L. Dorwling-Carter, T. Zambelli, G. Papastavrou, Extending the limits of direct force measurements: Colloidal probes from sub-micron particles, *Nanoscale* 9(27) (2017) 9491–9501.
21. Moazzami-Godarzi M., Maroni P., Borkovec M., Trefalt G., Depletion and double layer forces acting between charged particles in solutions of like-charged polyelectrolytes and monovalent salts, *Soft Matter* 13 (2017) 3284–3295.
22. Moazzami-Godarzi M., Surface forces in the presence of multivalent ions and polyelectrolytes, PhD Thesis, Geneva University, 2017.
23. Auermhamer G., Magnetorheological gels in two and three dimensions: understanding the interplay between single particle motion, internal deformation, and matrix properties, *Archive of Applied Mechanics* (2018) 1–13.
24. Ahmadi M., R. Ansari, M. Darvizeh, Free and forced vibrations of atomic force microscope piezoelectric cantilevers considering tip-sample nonlinear interactions, *Thin-Walled Structures* 145 (2019) 106382.

25. Bernardino K., A. Farias De Moura, Electrostatic potential and counterion partition between flat and spherical interfaces, *Journal of Chemical Physics* 150(7) (2019) 074704.
  26. Lele B.J., R.D. Tilton, control of the colloidal depletion force in nonionic polymer solutions by complexation with anionic surfactants, *Journal of Colloid and Interface Science* 553 (2019) 436–450.
  27. Lele B.J., R.D. Tilton, Colloidal depletion and structural force synergism or antagonism in solutions of mutually repelling polyelectrolytes and ionic surfactants, *Langmuir* 35 (2019) 15937–15947.
  28. Lele B.J., R.D. Tilton, Depletion forces induced by mixed micelles of nonionic block copolymers and anionic surfactants, *Langmuir* 36 (2020) 10772–10784.
  29. Scarratt L.R.J., K. Kubiak, P. Maroni, G. Trefalt, M. Borkovec, Structural and double layer forces between silica surfaces in suspensions of negatively charged nanoparticles, *Langmuir* 36 (2020) 14443–14452.
  30. Chatzigiannakis E., J. Vermant, Dynamic stabilization during the drainage of thin film polymer solutions, *Soft Matter* 17 (2021) 4790–4803.
  31. Chatzigiannakis E., Thin liquid films: Where hydrodynamics, capillary, interfacial stresses, and intermolecular forces meet, Ph.D. Thesis, ETH Zurich, 2021.
  32. Cholakova D., Glushkova D., Tcholakova S., Denkov N., Cold-brust method for nanoparticle formation with natural triglyceride oils, *Langmuir* 37 (2021) 7875–7889.
  33. Kaysan G., A. Rica, G. Guthausen, M. Kind, Contact-mediated nucleation of subcooled droplets in melt emulsions: A microfluidic approach, *Crystals* 11 (2021) 1471.
  34. Kemal S.I., C.A. Urbide Ortiz, V. Sharma, Surface forces and stratification in foam films formed with bile salts, *Molecular Systems Design and Engineering* 6 (2021) 520–533.
  35. Ludwig M., Surface forces across colloidal dispersions, PhD Thesis, Darmstadt Technical University, Germany, 2021.
  36. Mikhailovskaya A., E. Chatzigiannakis, D. Renggli, J. Vermant, C. Monteux, From individual liquid films to macroscopic foam dynamics: A comparison between polymers and nonionic surfactant, *Langmuir* 38 (2022) 10768–10780.
  37. Nikolov A.D., D.T. Wasan, P. Wu, Solvation forces versus the nano-colloidal structural forces under the film confinement: Layer to in-layer structural transition in wetting solids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101539.
  38. Singh H., S. Kumar, V.K. Aswai, Interplay of interactions in nanoparticle-surfactant complexes in aqueous salt solution, *Journal of Applied Physics* 132 (2022) 224701.
  39. Wu P., A.D. Nikolov, D.T. Wasan, Nanofluid structural forces after solid wetting, enhancing oil recovery, *Colloids and Interfaces* 6 (2022) 33.
  40. Kaysan G., T. Hirsch, K. Dubil, M. Kind, A microfluidic approach to investigate the contact force needed for successful contact-mediated nucleation, *Colloids Interfaces* 7 (2023) 12.
  41. Liao J., S. Liu, N. Li, J. Huang, H. Fan, S. Fang, Contactless measurements of salt-enhanced nonionic micelle-induced depletion forces by optical tweezers, *Physics Fluids* 35 (2023) 123308.
  42. King J.P., R.R. Dagastine, J.D. Berry, R.F. Tabor, Stratification and film ripping induced by structural forces in granular micellar thin films, *Journal of Colloid and Interface Science* 657 (2024) 25–36.
- 149 I.B. Ivanov, K.D. Danov, D. Dimitrova, M. Boyanov, K.P. Ananthapadmanabhan, A. Lips, Equations of state and adsorption isotherms of low molecular non-ionic surfactants, *Colloid and Surfaces A* 354 (2010) 118–133. (брой: 25)**
1. Adisalamun, D. Mangunwidjaja, A. Suryani, T.C. Sunarti, Y. Arkeman, Adsorpsi surfaktant nonionik alkil poliglikosida pada antarmuka fluida-fluida, *Jurnal Rekayasa Kimia dan Lingkungan* 9(1) (2012) 1–5.
  2. Jachimska B., A. Pomianowski, Effect of molecular structure of amphiphiles on the surface pressure and electric surface potential isotherms at the air/solution interfaces, *ICHE*, 2013.
  3. Kelompok O., Adsorpsi Surfaktan Nonionik Alkil Poliglikosida pada Antarmuka Fluida-Fluida, PhD Thesis, Fakultas Teknologi Pertanian, Universitas Brawijaya, Malang, 2013.
  4. Barzyk W., K. Lunckerheimer, P. Warszynski, B. Jachimska, A. Pomianowski, Effect of molecular structure of amphiphiles on the surface pressure and electric surface potential isotherms at the air/solution interface, *Colloid Surfaces A* 443 (2014) 515–524.
  5. Bournival G., S.I. Karakashev, G.I. Jameson, An investigation of bubble coalescence and post-rupture oscillations in non-ionic surfactant solutions using high-speed cinematography, *J. Colloid Interface Sci.* 414 (2014) 50–58.
  6. Bournival G., Z. Du, S. Ata, G.J. Jameson, Foaming and gas dispersion properties of non-ionic surfactants in the presence of an inorganic electrolyte, *Chemical Engineering Science* 116 (2014) 536–546.
  7. Karakashev S.I., How to determine the adsorption energy of the surfactant's hydrophilic head? How to estimate easily the surface activity of every simple surfactant? *J. Colloid Interface Sci.* 432 (2014) 98–104.
  8. Bournival G., L. de Oliveira e Souza, S. Ata, E.J. Wanless, Effect of alcohol frothing agents on the coalescence of bubbles coated with hydrophobized silica particles, *Chemical Engineering Science* 131 (2015) 1–11.



9. Karakashev S.I., S.K. Smoukov, Fast estimation of equilibrium adsorption constants of ionic surfactants with account for ion-specific effects, *Colloids Surfaces A* 467 (2015) 143–148.
  10. Bottcher S., M. Scampichio, S. Drusch, Mixtures of saponins and beta-lactoglobulin differ from classical protein/surfactant-systems at the air-water interface, *Colloids and Surfaces A* 506 (2016) 765–773.
  11. Bournival G., J.H. Tavares, S. Ata, E.J. Wanless, The role of bubble interfacial properties in the detachment of particles during bubble coalescence, *IMPC 2016*. 135047.
  12. Shahir A.A., A.V. Nguyen, S.I. Karakashev, A quantification of immersion of the adsorbed ionic surfactants at liquid/fluid interfaces, *Colloid Surfaces A* 509 (2016) 279–292.
  13. Zahariev T.K., A.V. Tadjer, A.N. Ivanova, Transfer of non-ionic surfactants across the water-oil interface: A molecular dynamic study, *Colloids and Surfaces A* 506 (2016) 20–31.
  14. Bournival G., S.R. Muin, N. Lambert, S. Ata, Characterisation of frother properties in coal preparation process water, *Minerals Engineering* 110 (2017) 47–56.
  15. Medeiros M., X. Marcos, A.A. Velasco-Medina, S. Perez-Casas, J. Gracia-Fabrique, Micellization and adsorption modeling of single and mixed non-ionic surfactants, *Colloids and Surfaces A* 556 (2018) 81–92.
  16. Minkov I.L., D. Arabadzhieva, I.E. Salama, E. Mileva, R.I. Slavchov, Barrier kinetics of adsorption-desorption of alcohol monolayers on water under constant surface tension, *Soft Matter* 15(8) (2019) 1730–1746.
  17. Guven O., K. Batjargal, O. Ozdemir, S.I. Karakashev, N.A. Grozev, F. Boylu, M.S. Celik, Experimental procedure for the determination of the critical coalescence concentration (CCC) of simple frothers, *Minerals* 10 (2020) 617.
  18. Pawignya H., T.D. Kusworo, B. Pamudono, Adsorption of nonionic alkyl polyglycosides surfactants in an emulsion systems, *Journal of Chemical Technology and Metallurgy* 55 (2020) 372–376.
  19. Amani P., S.I. Karakashev, N.A. Grozev, S.S. Simeonova, R. Miller, V. Rudolph, M. Firouzi, Effect of selected monovalent salts on surfactant stabilized foams, *Advances in Colloid and Interface Science* 295 (2021) 102490.
  20. Karakashev S.I., N.A. Grozev, O. Ozdemir, K. Batjargal, O. Guven, S. Ata, G. Bournival, F. Boylu, M.S. Celik, On the frother's strength and its performance, *Minerals Engineering* 171 (2021) 107093.
  21. Peychev B., R. Slavchov, Adsorption model and phase transitions of diblock perfluoroalkylated surfactants at the water|alkane interface, *Journal of Colloid and Interface Science* 594 (2021) 372–388.
  22. Sandoval-Ibarra F.D., A.A. Garcia-Figueroa, J.L. Lopez-Cervantes, J. Gracia-Fadrique, SAC: Surface activity coefficient, a function to unveil surface and bulk's ideal - non ideal behaviour, *Fluid Phase Equilibria* 546 (2021) 113120.
  23. Slavchov R., Theory of adsorption of ethoxylates at the water | oil and water | air interfaces. 1. Monolayers of single-component and Poisson distributed alkylphenol ethoxylates, *Journal of Colloid and Interface Science* 649 (2023) 559–570.
  24. Falciani G., E. Chiavazzo, An overview on modelling approaches for photochemical and photoelectrochemical solar fuels processes and technologies, *Energy Conversion and Management* 292 (2023) 117366.
  25. Peychev B., D. Arabadzhieva, I.L. Minkov, E. Mileva, R.I. Slavchov, Quantifying the Hydrophobic Effect per CF<sub>2</sub> Moiety from Adsorption of Fluorinated Alcohols at the Water/Oil Interface, *Molecules* 29 (2024) 1421.
- 148 M.P. Boneva, K.D. Danov, P.K. Kralchevsky, S.D. Kralchevska, K.P. Ananthapadmanabhan, A. Lips, Coexistence of micelles and crystallites in solutions of potassium myristate: soft matters vs. solid matters, Colloid and Surfaces A 354 (2010) 172–187. (брой: 10)**
1. Eckert K., M. Acker, R. Tadmouri, V. Pimienta, Chemo-Marangoni convection driven by an interfacial reaction: Pattern formation and kinetics, *Chaos* 22(3) (2012) 037112.
  2. Sagitani J., Stability conditions and mechanism of cream soaps: role of glycerol, *Journal of Oleo Science* 63(4) (2014) 365–372.
  3. Velikova G., I. Georgiev, M. Veneva, Effect of the precipitation of acid soap and alcanoic acid crystallites on the bulk pH, *ESGI'104*, Sofia, 2014.
  4. Forth J., D.J. French, A.V. Gromov, S. King, S. Trimuss, K.M. Lord, M.J. Ridout, P.J. Wilde, P.S. Clegg, Temperature- and pH-dependent shattering: Insoluble fatty ammonium phosphate films at water-oil interfaces, *Langmuir* 31(34) (2015) 9312–9324.
  5. Krzan M., E. Jarek, P. Warszynski, E. Rogatska, Effect of products of PLA2 catalyzed hydrolysis of DLPC on motion of rising bubbles, *Colloids and Surfaces B* 128 (2015) 261–267.
  6. Sagitani H., M. Komoriya, Stability conditions and mechanism of cream soaps: effect of polyols, *Journal of Oleo Science* 64(8) (2015) 809–816.
  7. Li F., M. Chen, W. Zhang, Effect of binary/ternary fatty acids ratio and glycerin on the phase behaviors of soap solutions, *Journal of Surfactants and Detergents* 20(2) (2017) 425–434.
  8. Li F. X. Tang, M. Chen, W. Zhang, Effect of polyhydric alcohols, surfactants, emollients and emulsifiers on phase behaviors of ternary fatty acid soap solutions, *Journal of Surfactants and Detergents* 20(6) (2017) 1337–1349.

9. Shah R.A., R. Masrat, M.S. Lone, S. Afzal, U. Ashraf, G.M. Rather, A.A. Dar, Solution properties and micellization behaviour of binary mixtures of sodium salts of N-tetradeconyl alanine and N- tetradeconyl phenylalanine surfactants, *Journal of Molecular Liquids* 248 (2019) 569–576.
  10. Du H., X. Wang, Lamellar crystalline networks in the gel-like phase of potassium stearate-stearic acid-water, *Colloids and Surfaces A* 629 (2021) 127402.
- 147 K.D. Danov, P.K. Kralchevsky, S.D. Stoyanov, Elastic Langmuir layers and membranes subjected to unidirectional compression: wrinkling and collapse, *Langmuir* 26(1) (2010) 143–155. (брой: 31)**
1. Aumaitre E., D. Vella, P. Cicuta, On the measurement of the surface pressure in Langmuir films with finite shear elasticity, *Soft Matter* 7(6) (2011) 2530–2537.
  2. Chhapadia P., P. Mohammadi, P. Sharma, Curvature-dependent surface energy and implications for nanostructures, *Journal of the Mechanics and Physics of Solids* 59(10) (2011) 2103–2115.
  3. Minakova M., Savelyev A., Papoian G.A., Nonequilibrium-water transport in a nonionic microemulsion system, *Journal of Physical Chemistry B* 115(20) (2011) 6503–6508.
  4. Sagis L.M.C., Dynamic properties of interfaces in soft matter: Experiments and theory, *Rev. Mod. Phys.* 83 (2011) 1367–1403.
  5. Imperiali L., K.-H. Liao, C. Clasen, J. Fransaeer, C.W. MacOsco, J. Vermant, Interfacial rheology and structure of tiled graphene oxide sheets, *Langmuir* 28(21) (2012) 7990–8000.
  6. Yunker P.J., Coffee-rings and glasses: colloids out of equilibrium, PhD Thesis, University of Pennsylvania, 2012.
  7. Yunker P.J., M. Gratale, M.A. Lohr, T. Still, T.C. Lubensky, A.G. Yodh, Influence of particle shape on bending rigidity of colloidal monolayer membranes and particle deposition during droplet evaporation in confined geometries, *Physical Review Letters* 108(22) (2012) Art. 228303.
  8. Van Hooghten R., L. Imperiali, V. Boeckx, R. Sharma, J. Vermant, Rough nanoparticles at the air-water interfaces: their structure, rheology and applications, *Soft Matter* 9(45) (2013) 10791–10798.
  9. Walker D.M., A. Tordesillas, T. Nakamura, T. Tanizawa, Direct network topologies of smart grain sensors, *Physical Review E* 87(3) (2013) 032203.
  10. You S.S., Rashkov R., Kanjanaboos P., Calderon I., Meron M., Jaeger H.M., Lin B., Comparison of the mechanical properties of self-assembled langmuir monolayers of nanoparticles and phospholipids, *Langmuir* 29(37) (2013) 11751–11757.
  11. Jin L., Mechanical instabilities of soft materials: creases, wrinkles, folds, and ridges, PhD Thesis, School of Engineering and Applied Sciences, Harvard University, 2014.
  12. Knoche S., Instabilities and shape analyses of elastic shells, PhD Thesis, TU Dortmund University, 2014.
  13. Sagis L.M., P. Fischer, Nonlinear rheology of complex fluid-fluid interfaces, *Curr. Opin. Colloid Interface Sci.* 19(6) (2014) 520–529.
  14. Sagis L.M.C., K.N.P. Humblet-Hua, S.E.H.J. Van Kempen, Nonlinear stress deformation behavior of interfaces stabilized by food-based ingredients, *Journal of Physics Condensed Matter* 25(46) (2014) 464105.
  15. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междупазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
  16. Tavacoli J.W., J.H.J. Thijssen, P.S. Glegg, Bicontinuous emulsions stabilized by colloidal particles, in: *Particle-Stabilized Emulsions and Colloids: Formation and Applications*, RSC Soft Matter No.3, 2015, Ch. 6, 129–168.
  17. Bedeaux D., *Experimental thermodynamics*, Vol. X, Non-equilibrium thermodynamics with applications, 2016.
  18. Moriss R.J., K.M. Bromley, N. Stanley-Wall, C.E. MacPhee, A phenomenological description of BsIA assemblies across multiple length scales, *Philosophical Transactions of the Royal Society A* 374(2072) (2016) Art, No. 20150131.
  19. Sagis L.M.C., Dynamics of complex fluid-fluid interfaces, in: *Experimental Thermodynamics*, vol. X: Non-equilibrium Thermodynamics with Applications, D. Bedeaux, S. Kjelstrup, and J.V. Sengers (eds.), Ch. 17, 2016.
  20. Lamorgese A., R. Mauri, L.M.C. Sagis, Modeling soft interface dominated systems: A comparison of phase field and Gibbs dividing surface models, *Physics Reports* 675 (2017) 1–54.
  21. Silvergerb G.J., A.A. McClelland, S. Griesse-Nascimento, C. Girawabe, J.P. Kadow, L. Mahadevan, C.D. Vecitis, Controlling the roughness of Langmuir-Blodgett monolayers, *Journal of Physical Chemistry B* 121(19) (2017) 5078–5085.
  22. Liang X., Mechanical instability in soft materials, PhD Thesis, University of California, 2018.
  23. Mi C., Elastic behavior of a half-space with a Steigmann-Ogden boundary under nanoscale frictionless patch loads, *International Journal of Engineering Science* 129 (2018) 129–144.

24. Vora S.R., B. Bognet, H.S. Patanwala, C.D. Young, S.-Y. Chang, V. Daux, A.W.K. Ma, Global strain field mapping of a particle-laden interface using digital image correlation, *Jornal of Colloid and Interface Science* 509 (2018) 94–101.
  25. Li T., K. Lilja, R.J. Momis, G.B. Brandani, Langmuir-Blodgett technique for anisotropic colloids: Young investigator perspective, *Journal of Colloid and Interface Science* 540 (2019) 420–438.
  26. Ahn S., S.J. Lee, Nanoscale element behavior in a continuum, *Journal of Synchrotron Radiation* 27 (2020) 1033–1041.
  27. Felix M., C. Carrera, A. Romero, C. Bengoechea, A. Guerrero, Rheological approaches as a tool for the development and stability behaviour of protein-stabilized emulsions, *Food Hydrocolloids* 104 (2020) 105719.
  28. Li X., L. Jiang, C. Mi, Flamant solution of a half-plane with surface flexural resistibility and its applications to nanocontact mechanics, *Mathematics and Mechanics of Solids* 25 (2020) 664–681.
  29. Jaensson N.O., P.D. Anderson, J. Vermant, Computational interfacial rheology, *Journal of non-Newtonian Fluid Mechanics* 290 (2021) 104507.
  30. Tsibranska S., A. Ivanova, S. Tcholakova, N. Denkov, Structure and undulations of escin adsorption layer at water surface studied by molecular dynamics, *Molecules* 26 (2021) 6856.
  31. Summer Tein Y., B.R. Thomson, C. Majkrzak, B. Maranville, D. Renggli, J. Varmant, N.J. Wagner, Instrument for measurement of interfacial structure–property relationships with decoupled interfacial shear and dilatational flow: “*Quadrotrough*”, *Review of Scientific Instruments* 93 (2022) 093903.
- 146 N. Alexandrov, K.G. Marinova, K.D. Danov, I.B. Ivanov, Surface dilatational rheology measurements for oil/water systems with viscous oils, *J. Colloid Interface Sci.* 339 (2009) 545–550. (брой: 40)**
1. Kovalchuk V.I., F. Ravera, L. Liggieri, G. Loglio, A.V. Makievski, S. Vincent–Bonnieu, J. Kragel, J. Javadi, R. Miller, Capillary pressure studies under low gravity conditions, *Adv. Colloid Interface Sci.* 161(1–2) (2010) 102–114.
  2. Ravera F., G. Loglio, P. Pandolfini, E. Santini, L. Liggieri, Determination of the dilational viscoelasticity by the oscillating drop/bubble method in a capillary pressure tensiometer, *Colloid Syrfaces A* 365(1–3) (2010) 2–13.
  3. Ravera F., G. Loglio, V.I. Kovalchuk, Interfacial dilational rheology by oscillating bubble/drop methods, *Current Opinion in Colloid and Interface Science* 15(4) (2010) 217–228.
  4. Kovalchuk V.I., F. Ravera, L. Liggieri, G. Loglio, J. Javadi, N.M. Kovalchuk, J. Kragel, Studies in capillary pressure tensiometry and interfacial dilatational rheology, *Bubble and Drop Interfaces, Progres in Colloid and Interface Science*, Vol.2, 2011, 143–178.
  5. Sagis L.M.C., Dynamic properties of interfaces in soft matter: Experiments and theory, *Rev. Mod. Phys.* 83 (2011) 1367–1403.
  6. Javadi A., J. Kragel, A.V. Makievski, V.I. Kovalchuk, N.M. Kovalchuk, N. Mucic, G. Loglio, P. Pandolfini, M. Karbaschi, R. Miller, Fast dynamic interfacial tension measurements and dilatational rheology of interfacial layers by using the capillary pressure technique, *Colloid and Surfaces A* 407(5) (2012) 159–168.
  7. Bureiko A., A. Trybala, J. Huang, N. Kovalchuk, V. Starov, Bulk and surface rheology of Aculyn<sup>tm</sup> 22 and Aculyn<sup>tm</sup> 33 polymeric solutions and kinetics of foam drainage, *Colloid Surfaces A* 434 (2013) 268–275.
  8. Hobley L., A. Ostrowski, F.V. Rao, K.M. Bromley, M. Porter, A.R. Preskott, C.E. MacPhee, D.M.F. Van Aalten, N.R. Stanley-Wall, BslA in a self-assmebling bacterial hydrophobin that coats the *Basillicus subtilis* biofilm, *PANS* 110(33) (2013) 13600–13605.
  9. Javadi A., N. Mucic, M. Karbashi, J.Y. Won, V.B. Fainerman, A. Sharipova, E.V. Aksenenko, V.I. Kovalchuk, N.M. Kovalshuk, A.V. Makievski, J. Kragel, R. Miller, Interfacial dynamics methods, in: *Encyclopedia of Colloid and Interface Science*, 2013, 637–676.
  10. Nikiforidis C.V., C. Ampatzidis, S. Lalou, E. Scholten, T.D. Karapantsios, V. Kiosseoglu, Purified oleosins at air-water interface, *Soft Matter* 9(4) (2013) 1354–1363.
  11. Rane J.P., V. Pauchard, A. Couzis, S. Banerjee, Interfacial rheology of asphaltenes at oil-water inetrfaces and interpretation of the equation of state, *Langmuir* 29(15) (2013) 4750–4759.
  12. Tadros T., Interaction energy, *Interfacial dynamics methods*, in: *Encyclopedia of Colloid and Interface Science*, 2013, 633–634.
  13. Tadros T., Interfacial tension, *Interfacial dynamics methods*, in: *Encyclopedia of Colloid and Interface Science*, 2013, 676–678.
  14. Alves D.R., Carneiro J.S.A., Oliveira I.F., Facanha Jr.F., Santos A.F., Dariva C., Franceschi E., Frotuny M., Influence of the salinity on the interfacial properties of a Brazilian crude oil-brine systems, *Fuel* 118 (2014) 21–26.
  15. Javadi A., J. Kragel, M. Karbashi, J.Y. Won, A. Dan, G. Gochev, A.V. Makievski, G. Loglio, L. Liggieri, F. Ravera, N.M. Kovalchuk, M. Lofti, V. Ulaganathan, V.I. Kovalchuk, R. Miller, Capillary pressure experiments with drops and bubbles, in: *Colloid and Interface Chemistry for Nanotechnology*, 2014, 271–313.

16. Powell K.C., A. Chauhan, Interfacial tension and surface elasticity of carbon black (CB) covered oil-water interface, *Langmuir* 30(41) (2014) 12287–12296.
17. Sagis L.M.C., K.N.P. Humblet-Hua, S.E.H.J. Van Kempen, Nonlinear stress deformation behavior of interfaces stabilized by food-based ingredients, *Journal of Physics Condensed Matter* 25(46) (2014) 464105.
18. Kotula A.P., S.I. Anna, Regular perturbation analysis of small amplitude oscillatory dilatation of an interface in a capillary pressure tensiometer, *Journal of Rheology* 59(1) (2015) 85–117.
19. Lotfi M., A. Javadi, M. Karbaschi, R.A. Campbell, V.I. Kovalchuk, J. Kragel, V.B. Fainerman, D. Bastani, R. Miller, Experimental approaches and related theory, *Computational Methods for Complex Liquid-Fluid Interfaces* (2015) 59–82.
20. Rane J.P., S. Zarkar, V. Pauchard, O.C. Mullins, D. Christie, A.B. Andrews, A.E. Pomerantz, S. Banerjee, Applicability of the Langmuir equation of state for asphaltene adsorption at the oil-water interface: coal-derived, petroleum, and synthetic asphaltenes, *Energy and Fuels* 29(6) (2015) 3584–3590.
21. Pagureva N., S. Tcholakova, K. Golemanov, N. Denkov, E. Pelan, S.D. Stoyanov, Surface properties of adsorption layers formed from triterpenoid and steroid saponins, *Colloids Surfaces A* 491 (2016) 18–28.
22. Powell K.C., A. Chauchan, Dynamic interfacial tension and dilatational rheology of dispersant Corexit 9500, *Colloids and Surfaces A* 497 (2016) 352–361.
23. Sokolovic R.M.S., D.S. Sokolovic, D.D. Govedarica, Liquid-liquid separation using steady-state bed coalescer, *Hemijaska Industrija* 4 (2016) 367–381.
24. Alves D., E. Lorencio, E. Franceschi, A.F. Santos, C.C. Santana, G. Borges, C. Dariva, Influence of ionic liquid on the viscoelastic properties of crude oil emulsions, *Energy and Fuels* 31(9) (2017) 9131–9139.
25. Ayirala S.C., Z. Li, S.H. Saleh, Z. Xu, A.A. Yousef, Effect of salinity and individual water ions on crude oil-water interface physicochemical interactions at elevated temperature, *SPE EOR* 2018-March 135963.
26. Randal G.C., Electric field deformation of protein-coated droplets in thin channels, *Langmuir* 34(34) (2018) 10028–10039.
27. Roas Escalona N., Y.O. Williams, E. Cruz-Barrios, J. toro-Mendoza, Interwining roles of the disperse phase properties during emulsification, *Langmuir* 34 (2018) 6480–6488.
28. Li P., J. Zhang, A finite difference method with sub-sampling for immersed boundary simulations of the capsule dynamics with viscoelastic membranes, *Numerical Methods in Biomedical Engineering* (2019).
29. Gazolu-Rusanova D., F. Mustan, Z. Vinarov, S. Tcholakova, N. Denkov, S. Stoyanov, J.W.J. de Folter, Role of lipophilic phospholipids on the interfacial and liquid film properties of enzymatically modified egg yolk solutions, *Food Hydrocolloids* (2019) 105319.
30. Denkov N., Tcholakova S., D. Cholakova, Surface phase transitions in foams and emulsions, *Current Opinion in Colloid and Interface Science* 44 (2019) 32–47.
31. Tsibranska S., S. Tcholakova, K. Golemanov, N. Denkov, E. Pelan, S.D. Stoyanov, Role of interfacial elasticity for the rheological properties of saponin-stabilized emulsions, *Journal of Colloid and Interface Science* 564 (2020) 264–275.
32. Tsibranska S., S. Tcholakova, K. Golemanov, N. Denkov, L. Arnaudov, E. Pelan, S.D. Stoyanov, Origin of the extremely high elasticity of bulk emulsions, stabilized by *Yucca Schidigera* saponins, *Food Chemistry* 316 (2020) 126365.
33. Bazazi P., S. Hossein Hejazi, Cellulose nanocrystal laden oil-water interfaces: Interfacial viscoelasticity, emulsion stability, and the dynamics of three-phase contact-lines, *Industrial and Engineering Chemistry Research* 60 (2021) 4892–4902.
34. Esteves R.C., H.C. Ferraz, Evaluation of interfacial properties due to the effect of dispersing agents on Brazilian medium crude oil, *Colloids Surfaces A* 626 (2021) 127043.
35. Politova-Brinkova N., M. Hristova, V. Georgiev, M. Grandl, F. Achenbach, Role of surfactant adsorption and surface properties for the efficiency of PDMS-silica antifoams, *Colloids and Surfaces A* 610 (2021) 125747.
36. Bazazi P., S.H. Hejazi, Wetting dynamics of nanoparticle dispersions: From fully spreading to non-sticking and the deposition of nanoparticle-laden surface droplets, *ACS Applied Materials and Interfaces* 14 (2022) 20280–20290.
37. El Omari Y., M. Yousfi, J. Duchet-Rumeau, A. Maazouz, Probing the elongational rheological behaviour at interfaces of immiscible polymer melts using dilational tensiometry: effect of viscosity and temperature on the interfacial properties, *Rheological Acta* 61 (2022) 613–636.
38. El Omari Y., M. Yousfi, J. Duchet-Rumeau, A. Maazouz, Recent advances in the interfacial shear and dilational rheology of polymer systems: From fundamentals to applications, *Polymers* 14 (2022) 2844.
39. Bazazi P., H.A. Stone, S. Hossein Hejazi, Dynamics of droplet pinch-off at emulsified oil-water interfaces: Interplay between interfacial viscoelasticity and capillary forces, *Physical Review Letters* 130 (2023) 034001.
40. Chrysanthou A., M. Bosh-Fortea, J.E. Gautrot, Co-Surfactant-Free Bioactive Protein Nanosheets for the Stabilization of Bioemulsions Enabling Adherent Cell Expansion, *Biomacromolecules* 24 (2023) 4465–4477.



- 145 M.P. Boneva, K.D. Danov, N.C. Christov, P.A. Kralchevsky, Attraction between particles at a liquid interface due to the interplay of gravity- and electric-field-induced interfacial deformations, *Langmuir* 25(16) (2009) 9129–9139. (брой: 38)
1. Domínguez A., M. Oettel, S. Dietrich, Dynamics of colloidal particles with capillary interactions *Phys. Rev. E* 82(1) (2010) 011402.
2. Ma H., L.L. Dai, Particle self-assembly in ionic liquid-in-water pickering emulsions, *Langmuir* 27(2) (2011) 508–512.
3. Loudet J.C., B. Pouligny, How do mosquito eggs self-assemble on the water surface? *European Physical Journal E* 34(8) (2011) Art. No. 76.
4. Pozrikidis C., A floating prolate spheroid, *J. Colloid Interface Science* 364(1) (2011) 248–256.
5. Zhong Z., T. Zhou, Y. Sun, J. Lin, A feasible routine for large-scale nanopatterning via nanosphere lithography, in: *Recent Advances in Nanofabrication Techniques and Applications*, InTech Europe, 2011, 533–546.
6. Botto L., E.P. Lewandowski, M. Cavalharro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
7. Miao Y., Y. Liu, L. Hu, L.E. Helseth, Colloidal clustering of protein-coated microspheres in evaporating droplets, *Soft Matter* 8(7) (2012) 2267–2273.
8. Qin W.-Q., L.-Y. Ren, P.-P. Wang, C.-R. Yang, Y.-S. Zhang, Electro-flotation and collision-attachment mechanism of fine cassiterite, *Transactions of Nonferrous Metals, Society of China*, 22(4) (2012) 917–924.
9. Turek V.A., M.P. Cecchini, J. Paget, A.R. Kucernak, A.A. Kornyshev, J.B. Edel, Plasmonic ruler at the liquid-liquid interface, *ACS Nano* 6(9) (2012) 7789–7799.
10. Morgan A.R., N. Ballard, L.A. Rochford, G. Nurumbetov, T.S. Skelhon, S.A.F. Bon, Understanding the multiple orientations of isolated superellipsoidal hematite particles at the oil-water interface, *Soft Matter* 9(2) (2013) 487–491.
11. Gao P., X. Xing, Y. Li, T. Ngai, F. Jin, Charging and discharging of single colloidal particles at oil/water interfaces, *Scientific Reports* 4 (2014) 4778.
12. Cooke I.R., C.J. Lang, L.V. White, S.J. Wakes, S.J. Sowerby, Analysis of menisci formed on cones for single field of view parasite egg microscopy, *Journal of Microscopy* 257(2) (2015) 133–141.
13. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, *Langmuir* 31(49) (2015) 13290–13302.
14. Emelyanenko K.A., Emelyanenko A.M., L.B. Boinovich, Image charge effects in the wetting behavior of alkanes on water with accounting for water solubility, *Materials* 9(3) (2016) 177.
15. Lee D.-G., P. Cicuta, D. Vella, Self-assembly of repulsive interfacial particles via collective sinking, *Soft Matter* 13(1) (2017) 212–221.
16. Zhang Y., S. Wang, J. Zhou, R. Zhao, G. Benz, S. Tcheimou, J.C. Meredith, S.H. Behrens, Interfacial activity of nonamphiphilic particles in fluid-fluid interfaces, *Langmuir* 33(18) (2017) 4511–4519.
17. Amoanu D., Voltage-tunable 2D and 3D structures of gold nanoparticles at a water/1,2-dichloroethane interface, PhD Thesis, University of Illinois of Chicago, 2018.
18. Das S., J. Koplik, R. Farinato, D.R. Nagaraj, C. Maldarelli, P. Somasundaran, The translation and rotational dynamics of a colloid moving along the air-liquid interface of a thin film, *Scientific Reports* 8 (2018) 8910.
19. Gabovich A.M., A.I. Voitenko, Electrostatic interaction near the interface between dielectric media taking into account the nonlocality of the Coulomb field screening, *Journal of Molecular Liquids* 267 (2018) 166–176.
20. Wang C., M. Li, Y. Song, X. Pan, D. Li, Electrokinetic motion of a spherical microparticle at an oil-water interface in microchannel, *Electrophoresis* 39 (2018) 807–815.
21. Wu L., X. Wang, G. Wang, G. Chen, In situ X-ray scattering observation of two-dimensional interfacial colloidal crystallization, *Nature Communications* 9(1) (2018) 1335.
22. Ali M., S.H. Ghosh, Liquid-liquid interface as scaffold for self-assembly of nanostructures into functional materials, *Smart Nanocontainers: Micro and Nano Technologies* (2019) 515–536.
23. Jia Y., R. Huang, Y. Lan, Y. Ren, H. Jiang, D. Lee, Reversible aggregation and dispersion of particles at a liquid-liquid interface using space charge injection, *Advanced Materials Interfaces* 6 (2019) 1801920.
24. Smits J., F. Vieira, B. Bisswurm, K. Rezwan, M. Maas, Reversible adsorption of nanoparticles at surfactant-laden liquid-liquid interfaces, *Langmuir* 35 (2019) 11089–11098.
25. Ha Eun L., C. Kyu Hwan, M. Xia, K. Dong Woo, P. Bum Jin, Interaction between polystyrene particles with diameters of several tens to hundreds of micrometers at the oil-water interface, *Journal of Colloid and Interface Science* 560 (2020) 838–848.
26. Loudet J.-C., M. Qiu, J. Hemaue, J.J. Feng, Drag force on a particle straddling a fluid interface: influence of interfacial deformation, *The European Physical Journal E* 43 (2020) 13.
27. Yi Z., T. Ngai, Anomalous long-range attraction in colloidal binary mixtures at fluid-fluid interfaces, *Colloids and Interfaces* 4 (2020) 36.

28. Zhang J., H. Feng, F. Niu, W. Sun, Y. Zhao, Study of the floc-bubble adhesion behaviour of hematite in static flow field, *Physicochemical Problems of Mineral Processing* 56 (2020) 124–133.
29. Das S., J. Koplik, P. Somasundaran, C. Maldarelli, Pairwise hydrodynamic interactions of spherical colloids at a gas-liquid interface, *Journal of Fluid Mechanics* 915 (2021) A99.
30. Hemauer J., M. Qiu, J.J. Feng, J.-C. Loudet, Particle rotation speeds up capillary interactions, *The European Physical Journal E* 44 (2021) 30.
31. Hu Y., P. Vlahovska, M.J. Miksis, Aelectrohydrodynamic assembly of colloidal particles on a drop interface, *Mathematical Biosciences and Engineering* 18 (2021) 2357–2371.
32. Jankowski M., M. Saedi, F. La Porta, A.C. Manikas, C. Tsakonas, J.S. Cingolani, M. Andersen, M. De Voogd, G.J.C. Van Baarle, K. Reuter, C. Galiotis, G. Renaud, Real-time multiscale monitoring and tailoring of graphene growth on liquid copper, *ACS Nano* 15 (2021) 9638–9648.
33. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
34. Dani A., Y. Mohsen, C. Maldarelli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
35. Ickler M., J. Menath, L. Holstein, M. Rey, D.M.A. Buzza, N. Vogel, Interfacial self-assembly of SiO<sub>2</sub>-PNIPAM core-shell particles with varied crosslinking density, *soft Matter* 18 (2022) 5585–5597.
36. Neves T. de F., M.G. Camparotto, E.A. Rodrigues, V.R. Mastelaro, R.F. Dantas, P. Prediger, New graphene oxide-safranin modified polyacrylonitrile membranes for removal of emerging contaminants: The role of chemical and morphological features, *Chemical Engineering Journal* 446 (2022) 137176.
37. Wang C., Q. Gao, 3D numerical study of the electrokinetic motion of a microparticle adsorbed at a horizontal oil/water interface in an infinite domain. *ACS Omega* 7 (2022) 4062–4070.
38. Rahman Md A., P.J. Beltramo, Rough colloids at fluid interfaces: from fundamental science to applications, *Frontiers in Physics* 11 (2023) 1248706.

**144 S.S. Tabakova, K.D. Danov, Effect of disjoining pressure on the drainage and relaxation dynamics of liquid films with mobile interfaces, *J. Colloid Interface Sci.* 336 (2009) 273–284. (брой: 22)**

1. Qu H., L. Wang, A.V. Nguyen, Surface forces in thin foam films stabilized by non-ionic surfactants, *Chemeca 2010: Engineering at the Edge* (2010) 1561–1572.
2. Rognon P., I. Einav, C. Gay, Internal relaxation time in immersed particulate materials, *Phys. Rev. E* 81(6) (2010) 061304.
3. Rognon P., I. Einav, C. Gay, Flowing resistance and dilatancy of dense suspensions: lubrication and repulsion, *J. Fluid Mech.* 689 (2011) 75–96.
4. Emile J., F. Casanova, G. Loas, Emile O., Swelling of a foam lamella in a confined channel, *Soft Matter* 8(27) (2012) 3223–3227.
5. Wang L., Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants, *Int. Journal of Mineral Processing* 102–103 (2012) 58–68.
6. Wang L., Inter-bubble attractions in aqueous solutions of flotation frothers, *Separation Technologies for Minerals, Coal, and Earth Resources, International Symposium* (2012) 35–45.
7. Ye X., K. Jiang, C. Li, Droplet spreading with soluble surfactant under disjoining pressure/conjoining pressure, *CIESC Journal* 64(10) (2013) 3581–3589.
8. Wang L., Modeling of bubble coalescence in saline water in the presence of flotation frothers, *International Journal of Mineral Processing* 134 (2015) 41–49.
9. Ye X.-M., S.-D. Yang, C.-X. Li, Synergistic effect of the disjoining pressure and surface viscosity on the film drainage processes, *Acta Physica Sinica* 66(19) (2017) 194701.
10. Ye X.-M., S.-D. Yang, C.-X. Li, Effect of the concentration-dependent disjoining pressure on drainage processes of vertical liquid film, *Acta Physica Sinica* 66(18) (2017) 184702.
11. Wang H., D. Wu, C. Liu, J. Guan, J. Li, P. Huo, X. Liu, Q. Wang, Y. Yan, Fabrication of Ag/In<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub>/HNTs hybrid-structured and plasma effect photocatalysts for enhanced charges transfer and photocatalytic activity, *Journal of Industrial and Engineering Chemistry* 67 (2018) 164–174.
12. Ye X.-M., C.-X. Li, X.-S. Zhang, C.-X. Li, Coupling effect of surface elasticity and disjoining pressure on film drainage process, *Acta Physica Sinica* 67(16) (2018) 164701.
13. Rosenbaum E., M. Massoudi, K. Dayal, Surfactant stabilized bubbles flowing in a Newtonian fluid, *Mathematics and Mechanics of Solids* 24 (2019) 3823–3842.
14. Rosenbaum E., M. Massoudi, K. Dayal, The influence of bubbles on foamed cement viscosity using an extended Stokesian dynamics approach, *Fluids* 4(3) (2019) 166.

15. Petkova B., S. Tcholakova, M. Chenkova, K. Golemanov, D. Throley, S. Stoyanov, Foamability of aqueous solutions: Role of surfactant type and concentration, *Advances in Colloid and Interface Science* 276 (2020) 102084.
  16. Roberto P.-G., B.-T. Arturo, Coalescence of air bubbles: Effect of the electrical double layer, *Minerals Engineering* 150 (2020) 106301.
  17. Zeng X., X. Lan, H. Zhu, H. Liu, H.A. Umar, Y. Xie, G. Long, C. Ma, A review on bubble stability in fresh concrete: mechanisms and main factors, *Materials* 13 (2020) 1820.
  18. Setts S., J. Oh, H. Cha, L.W. Bolton, N. Miljkovich, Lubricant-infused surfaces for low-surface-tension-fluids: The extend of lubricant miscibility, *ACS Applied Materials and Interfaces* 13 (2021) 23121–23133.
  19. Adeyemi B., P. Jadhawar, L. Akanji, V. Barra, Effects of fluid–fluid interfacial properties on the dynamics of bounded viscoelastic thin liquid films, *Journal of Non-Newtonian Fluid Mechanics* 309 (2022) 104893.
  20. He G., H. Li, C. Guo, J. Liao, J. Deng, S. Liu, H. Dong, Stable foam systems for improving oil recovery under high-temperature and high-salt reservoir conditions, *Journal of Petroleum Science and Engineering* 211 (2022) 110145.
  21. Ilkhani M., A. Esfandiyari Bayat, S. Harati, Applicability of methane foam stabilized via nanoparticles for enhanced oil recovery from carbonate porous media at various temperatures, *Journal of Molecular Liquids* 367 (2022) 120576.
  22. Xiang S., Y. Tan, Y. Gao, Z. Jiang, B. Liu, W. Zeng, Bubble evolution under the action of polycarboxylate and air-entraining agent and its effects on concrete properties: A review, *Materials* 15 (2022) 7053.
- 143 P.A. Kralchevsky, K.D. Danov, N.D. Denkov, Chemical physics of colloid systems and interfaces, in: K.S. Birdi (Ed.), Handbook of Surface and Colloid Chemistry, Third Edition, CRC Press, New York, 2009, pp. 197–378. (брой: 66)**
1. Marinova K.G., E.S. Basheva, B. Nenova, M. Temelska, A.Y. Mirarefi, B. Campbell, I.B. Ivanov, Physico-chemical factors controlling the foamability and foam stability of milk proteins: Sodium caseinate and whey protein concentrates, *Food Hydrocolloids* 23(7) (2009) 1864–1876.
  2. Nanostructures Fabricated by Physical Techniques, World Scientific Series in Nanoscience and Nanotechnology, vol. 2 (2011) 369–432.
  3. Pozrikidis C., Hydrostatic meniscus between two eccentric circular cylinders, *J. Colloid Interface Sci.* 349(1) (2010) 366–373.
  4. Stocco A., D. Carriere, M. Cottat, D. Langevin, Interfacial behavior of catanionic surfactants, *Langmuir* 26(3) (2010) 10663–10669.
  5. Hill A.I., C. Pozrikidis, On the shape of hydrostatic meniscus attached to a corrugated plate or wavy cylinder, *J. Colloid Interface Sci.* 356 (2011) 763–774.
  6. Pozrikidis C., Shape of hexagonal hydrostatic menisci, *International Journal for Numerical Methods in Fluids* 65(6) (2011) 625–637.
  7. Abdul-Fattah A.M., R. Oeschger, H. Roehl, I. Bauer Dalphin, M. Worgull, G. Kalmeyer, H.-C. Mahler, Investigating factors leading to fogging vials in lyophilized drug products, *European Journal of Pharmaceutics and Biopharmaceutics* 85(2) (2013) 314–326.
  8. Leary T.F., Hydrodynamic and mass transfer properties of microfluidic geometries, PhD Thesis, Department of Chemical Engineering, City College, NY, 2013.
  9. Zhang Y., A. Martin, P. Grassia, Prediction of thickener performance with aggregate densification, *Chemical Engineering Science* 101 (2013) 346–358.
  10. Dimitrova T.D., S. Cauvin, J.-P. Lecomte, A. Colson, Non-aqueous, surfactant-free antifoam emulsions: properties and triggered release, *Canadian Journal of Chemical Engineering* 92(2) (2014) 330–336.
  11. Fiet L.A., R.V. Contri, J.F. Bica, F. Figueiro, A.M.O. Batastini, S.S. Gutierrez, A.R. Pohlmann, Labeling the oily core of nanocapsules and lipid-core nanocapsules with a triglyceride conjugated to a fluorescent dye as a strategy to particle tracking in biological studies, *Nanoscale Research Letters* 9(1) (2014) 1–11.
  12. Garche H., K.F. Lam, B. Stinner, Diffuse interface modelling of soluble surfactants in two-phase flow, *Communications in Mathematical Sciences* 12(8) (2014) 1475–1522.
  13. Gurkov T., B. Nenova, E. Kostova, W. Gaschler, Interfacial rheology of viscoelastic surfactant-polymer layers, in: *Colloid and Interface Chemistry for Nanotechnology*, Taylor & Francis (2014) 351–367.
  14. Mchedlov-Petrosyan N.O., Adsorption of ionic surfactants on water/air interface: One more transformation of the Gibbs equation, *Surface Engineering and Applied Electrochemistry* 50(2) (2014) 173–182.
  15. Otsuki A., Y. Chen, Y. Zhao, Characterisation and beneficiation of complex ores for sustainable use of mineral resources: Refractory gold ore beneficiation as an example, *International Journal of the Society of Material Engineering for Resources* 20 (2014) 126–135.
  16. Pan A., A.K. Rakshit, S.P. Moulik, Dwelling on the adsorption of surfactant at the air/water interface in relation to its states in the bulk: A comprehensive analysis, *Colloids Surfaces A* 464 (2014) 8–16.

17. Velikova G., I. Georgiev, M. Veneva, Effect of the precipitation of acid soap and alcanoic acid crystallites on the bulk pH, ESGI'104, Sofia, 2014.
18. Dieter-Kissling K., H. Marschall, D. Bothe, Direct numerical simulation of droplet formation processes under the influence of soluble surfactant mixture, *Computers and Fluids* 113 (2015) 93–105.
19. Dieter-Kissling K., H. Marschall, D. Bothe, Numerical method for coupled interfacial surfactant transport on dynamic surface meshes of general topology, *Computers and Fluids* 109 (2015) 168–184.
20. Kaptay G., Partial surface tension of components of solution, *Langmuir* 31(21) (2015) 5796–5804.
21. Karakashev S.I., S.K. Smoukov, Fast estimation of equilibrium adsorption constants of ionic surfactants with account for ion-specific effects, *Colloids Surfaces A* 467 (2015) 143–148.
22. Lech F.J., P.A. Wierenga, H. Gruppen, M.B.J. Meinders, Stability properties of surfactant-free films at different ionic strengths: Measurements and modelling, *Langmuir* 31(9) (2015) 2777–2782.
23. Meinders M.B.J., R.G.M. Van der Sman, Modeling foam stability, *Computational Methods for Complex Liquid-Fluid Interfaces* (2015) 503–528.
24. Ooi C.H., R.K. Vadivelu, J. St John, D.V. Dao, N.-T. Nguyen, Deformation of a floating liquid marble, *Soft Matter* 11(23) (2015) 4576–4583.
25. Otsuki A., G. Bryant, Characterization of the interactions within fine particles mixtures in highly concentrated suspensions for advanced particle processing, *Advances in Colloid and Interface Science* 226 (2015) 37–43.
26. Hristov J., A unified nonlinear fractional equation of the diffusion-controlled surfactant adsorption: Reappraisal and new solution of the Ward-Tordai problem, *Journal of King Saud University – Science* 28(1) (2016) 7–13.
27. Kharchenko A.Y., N.N. Kamneva, N.O. Mchedlov-Petrosyan, The properties and composition of the SDS-1-butanol mixed micelles as determined via acid-base indicators, *Colloids and Surfaces A* 507 (2016) 243–254.
28. Ooi C.H., C. Plachowski, A.V. Nguyen, R.K. Vadivelu, J.A.S. John, D.V. Dao, N.-T. Nguyen, Floating mechanics of a small liquid marble, *Scientific Reports* 6 (2016) 21777.
29. Ooi C. H., A.V. Nguyen, G.M. Evans, D.V. Dao, N.-T. Nguyen, Measuring the coefficient of friction of a small floating liquid marble, *Scientific Reports* 6 (2016) 38346.
30. Bormashenko E.Y., *Physics of wetting: Phenomena and applications of fluids on surfaces*, 2017.
31. Hahn A., ALE-FEM for two-phase flows with surfactants, PhD Thesis, University Magdeburg, 2017.
32. Mchedlov-Petrosyan N.O., The Davies equation of state of ionic surfactant adsorbed monolayer and related problems, *Colloids Surfaces A* 537 (2018) 325–333.
33. Ooi C.H., J. Jin, K.R. Sreejith, A.V. Nguyen, G.M. Evans, Nguyen N.-T., Manipulation of a floating liquid marble using dielectrophoresis, *Lab on a Chip* 18(24) (2018) 3770–3779.
34. Otsuki A., L. de Campo, C.J. Garvey, C. Rehm, H<sub>2</sub>O/D<sub>2</sub>O contrast variation for ultra-small-angle neutron scattering to minimize multiple scattering effects of colloidal particle suspensions, *Colloid Interfaces* 2(3) (2018) 37.
35. Sui R., C. Ju, W. Zhong, Q. Lin, Improved wetting of Al<sub>2</sub>O<sub>3</sub> by molten Sn with Ti addition at 973–1273 K, *Journal of Alloys and Compounds* 739 (2018) 616–622.
36. Bickel T., Effect of surface active contaminants on radial thermocapillary flows, *The European Physical Journal E* 42 (2019) 131.
37. Maestro A., Tailoring the interfacial assembly of colloidal particles by engineering the mechanical properties of the interface, *Current Opinion in Colloid and Interface Science* 39 (2019) 232–250.
38. Mchedlov-Petrosyan M.O., V.S. Farafonov, T.A. Cheipesh, et. al., In search of an optimal acid-base indicator for examining surfactant micelles: Spectrophotometric studies and molecular dynamic simulations, *Colloids Surfaces A* 565 (2019) 97–107.
39. Otsuki A., Rheology of colloidal particle suspensions, *Theology of Polymer Blends and Nanocomposites: Theory, Modelling and Applications* (2019) 49–71.
40. Pikalova E.Y., E.G. Kalinina, Electrophoretic deposition in the solid oxide fuel cell technology: Fundamentals and recent advances, *Renewable and Sustainable Energy Reviews* 116 (2019) 109440.
41. Bois R., I. Pezron, A. Nesterenko, Dynamic interfacial properties of sugar-based surfactants: Experimental study and modeling, *Colloid and Interface Science Communications* 37 (2020) 100293.
42. Grigoriev V.V., O. Iliev, P.N. Vabishchenko, Computational identification of adsorption and desorption parameters for pore scale transport in periodic porous media, *Journal of Computational and Applied Mathematics* 370 (2020) 112661.
43. Kudryavtsev P.G., Main routes of the porous composite materials creation, *Nanotechnologies in Construction* 12 (2020) 256–269.
44. Manikantan H., T.M. Squires, Surfactant dynamics: Hidden variables controlling fluid flows, *Journal of Fluid Mechanics* 892 (2020) P1.
45. Petkova B., S. Tcholakova, M. Chenkova, K. Golemanov, D. Throley, S. Stoyanov, Foamability of aqueous solutions: Role of surfactant type and concentration, *Advances in Colloid and Interface Science* 276 (2020) 102084.



46. Rodriguez-Hernandez J., E. Bormashenko, Breath-figures formation: Physical aspects, *Breath-Figures*, Springer (2020) 13–49.
  47. Vogel Y.B., C.W. Evans, M. Belotti, L. Xu, I.C. Russel, L.-J. Yu, A.K.K. Fung, N.S. Hill, N. Darwish, V.R. Goncales, M.L. Coote, K. Swaminathan Iyer, S. Ciampi, The corona of a surface bubble promotes electrochemical reaction, *Nature Communications* 11 (2020) 6323.
  48. Amani P., S.I. Karakashev, N.A. Grozev, S.S. Simeonova, R. Miller, V. Rudolph, M. Firouzi, Effect of selected monovalent salts on surfactant stabilized foams, *Advances in Colloid and Interface Science* 295 (2021) 102490.
  49. Lin Q., L. Wang, R. Sui, Wetting of AlN by molten Cu-8.6Zr-xTi ternary alloys at 1373 K, *Acta Materialia* 203 (2021) 116488.
  50. Maestro A., P. Gutfreund, In situ determination of the structure and composition of Langmuir monolayers at the air/water interface by neutron and X-ray reflectivity and ellipsometry, *Advances in Colloid and Interface Science* (2021) 102434.
  51. Milkova V., Electrosteric stabilization of oil/water emulsions by adsorption of chitosan oligosaccharides—An electrokinetic study, *Carbohydrate Polymers* 265 (2021) 118072.
  52. Ochoa C., S. Gao, S. Srivastava, V. Sharma, Foam film stratification studies probe intermicellar interactions, *PNAS* 118 (2021) e2024805118.
  53. Zhao Q., W. Ren, Z. Zhang, A thermodynamically consistent model and its conservative numerical approach for moving contact lines with soluble surfactants, *Computer Methods and Applied Mechanics and Engineering* 385 (2021) 114033.
  54. Bickel T., F. Detcheverry, Exact solution for viscous Marangoni spreading, *Physical Review E* 106 (2022) 045107.
  55. Grigoriev V.V., O. Iliev, P.N. Vabishchevich, On parameter identification for reaction-dominated pore-scale reactive transport using modified bee colony algorithm, *Algorithms* 15 (2022) 15.
  56. Karakashev S., N.A. Grozev, O. Ozdemir, O. Guven, S. Ata, G. Bournival, K. Batjargal, F. Boylu, S. Hristova, M.S. Celik, Physical restriction of the flotation of fine particles and ways to overcome them, *Physicochemical Problems of Mineral Processing* 58 (2022) 153944.
  57. Retamal Marin R.R., State of the Art and Knowledge About (Nanoparticulate) Disperse Systems. In: *Characterization of Nanomaterials in Liquid Disperse Systems. Particle Technology Series*, vol 28. Springer, 2022, 9–57.
  58. Wiacek E.A., K. Przykaza, Wettability and stability of naproxen, ibuprofen and/or cyclosporine A/silica delivery systems, *Colloids and Interfaces* 6 (2022) 11.
  59. Karakashev S.I., N.A. Grozev, S. Hristova, K. Mircheva, O. Ozdemir, Electrostatic forces in control of the foamability of nonionic surfactant, *Coatings* 13 (2023) 37.
  60. Mchedlov-Petrosyan N.O., V.S. Farafonov, A.V. Lebed, Solvatochromic and Acid–Base Molecular Probes in Surfactant Micelles: Comparison of Molecular Dynamics Simulation with the Experiment, *Liquid* 3 (2023) 314–370.
  61. Milkova V., F.M. Goycoole, Polysaccharide-Stabilized Capsules for Delivery of Indomethacin, *Chemistry Select* 8 (2023) e202204420.
  62. Titov K., V. Abramov, V. Emelianov, A. Revil, Induced polarization of volcanic rocks. Part 7. Kimberlites, *Geophysical Journal International* 236 (2024) 233–248.
  63. Li J., H. Manikantan, Stability and thinning of liquid jets in the presence of soluble surfactants, *The Journal of Chemical Physics* 160 (2024) 024902.
  64. Li J., Influence of Interfacial Rheology on Instabilities of Multiphase Flows, PhD Thesis, University of California, 2023.
  65. Lucie D., S. Tcholakova, Role of temperature and urea for surface and foam properties of nonionic surfactants with dodecyl alkyl chain, *Colloids and Surfaces A* 691 (2024) 133844.
  66. Karakashev S.I., D.S. Ivanova-Stancheva, N.A. Grozev, K.M. Mircheva, Behavior of froth in absence and presence of particles, *Minerals Engineering* 212 (2024) 108715.
- 142 S.C. Russev, N. Alexandrov, K.G. Marinova, K.D. Danov, N.D. Denkov, L. Lyutov, V. Vulchev, C. Bilke–Krause, Instrument and methods for surface dilatational rheology measurements, *Rev. Scientific Instruments* 79 (2008) Pap. No. 104102. (брой: 62)**
1. Loglio G., P. Pandolfini, R. Miller, F. Ravera, Optical observation of high-frequency drop oscillations by a spectrum compression technique to the capillary pressure tensiometry, *Langmuir* 25(21) (2009) 12780–12786.
  2. Rother P., Einfluss von Cyclodextrinen auf HPMC-stabilisierte Oil-in-Wasser Emulsionen, PhD Thesis, Tuebingen University, 2009.
  3. Dollet B., Local description of the two-dimensional flow of foam through a contraction, *Journal of Rheology* 54(4) (2010) 741–760.

4. Ishii M., Surface dielectric relaxation: probing technique and its application to thermal activation dynamics of polymer surface, *Rev. Scientific Instruments* 81(9) (2010) 093095.
5. Ravera F., G. Loglio, P. Pandolfini, E. Santini, L. Liggieri, Determination of the dilational viscoelasticity by the oscillating drop/bubble method in a capillary pressure tensiometer, *Colloid Surfaces A* 365(1–3) (2010) 2–13.
6. Ravera F., G. Loglio, V.I. Kovalchuk, Interfacial dilational rheology by oscillating bubble/drop methods, *Current Opinion in Colloid and Interface Science* 15(4) (2010) 217–228.
7. Ангарска Ж., Д. Иванова, К. Щубенраух, Гибсова еластичност на адсорбционни слоеве от смесени разтвори на п-додецил-малтозид с додеканол, *Годишник на Шуменския Университет „К. Преславски“ Природни науки, Химия, том XX B2*, 2010.
8. Kovalchuk V.I., F. Ravera, L. Liggieri, G. Loglio, J. Javadi, N.M. Kovalchuk, J. Kragel, Studies in capillary pressure tensiometry and interfacial dilatational rheology, *Bubble and Drop Interfaces, Progres in Colloid and Interface Science*, Vol.2, 2011, 143–178.
9. Loglio G., P. Pandolfini, L. Liggieri, A.V. Makievski, F. Ravera, Determination of interfacial properties by the pendant drop tensiometry, in: *Bubble and Drop Interfaces, Progres in Colloid and Interface Science*, Vol.2, 2011, 7–38.
10. Loglio G., P. Pandolfini, F. Ravera, A. Javadi, R. Miller, Experimental observation of drop-drop coalescence in liquid-liquid systems: Instrument design and future, in: *Bubble and Drop Interfaces, Progres in Colloid and Interface Science*, Vol.2, 2011, 385–400.
11. Murray B.S., Rheological properties of protein films, *Current Opinion in Colloid and Interface Science* 16(1) (2011) 27–35.
12. Sun H.-Q., L. Zhang, Z.-Q. Li, L. Zhang, L. Luo, S. Zhao, Interfacial dilatational rheology related to enhance oil recovery, *Soft Matter* 7 (2011) 7601–7611.
13. Tankovsky N., N. Zografov, Oscillations of a hanging liquid drop, driven by interfacial dielectric force, *Zeitschrift fur Physikalische Chemie* 225(4) (2011) 405–411.
14. Javadi A., J. Kragel, A.V. Makievski, V.I. Kovalchuk, N.M. Kovalchuk, N. Mucic, G. Loglio, P. Pandolfini, M. Karbaschi, R. Miller, Fast dynamic interfacial tension measurements and dilatational rheology of interfacial layers by using the capillary pressure technique, *Colloid and Surfaces A* 407(5) (2012) 159–168.
15. Mitropoulos V., Structure and mechanics of protein stabilized interfaces, PhD Thesis, ETH / Laboratory of Food Process Engineering, 2012.
16. Pelipenko J., J. Kristl, R. Rosic, S. Baumgartner, P. Kocbek, Interfacial rheology: an overview of measuring techniques and its role in dispersions and electrospinning, *Acta Pharmaceutica* 62(2) (2012) 123–140.
17. Verwijlen T., D.L. Leiske, P. Moldenaers, J. Vermant, G.G. Fuller, Extensional rheometry at interfaces: analysis of the Cambridge interfacial tensiometer, *Journal of Rheology* 56(5) (2012) 1225–1247.
18. Hobley L., A. Ostrowski, F.V. Rao, K.M. Bromley, M. Porter, A.R. Preskott, C.E. MacPhee, D.M.F. Van Aalten, N.R. Stanley-Wall, BslA in a self-assembling bacterial hydrophobin that coats the *Bacillus subtilis* biofilm, *PANS* 110(33) (2013) 13600–13605.
19. Li Z., K. Geisel, W. Richtering, T. Ngai, Poly(N-isopropylacrylamide) microgels at the oil-water interface: adsorption kinetics, *Soft Matter* 9(41) (2013) 9939–9946.
20. Verwijlen T., P. Moldenaers, J. Vermant, A fixture for interfacial dilatational rheometry using a rotational rheometer, *European Physical Journal: Special Topics* 222(1) (2013) 83–97.
21. Gurkov T., B. Nenova, E. Kostova, W. Gaschler, Interfacial rheology of viscoelastic surfactant-polymer layers, in: *Colloid and Interface Chemistry for Nanotechnology*, Taylor & Francis (2014) 351–367.
22. Powell K.C., A. Chauhan, Interfacial tension and surface elasticity of carbon black (CB) covered oil-water interface, *Langmuir* 30(41) (2014) 12287–12296.
23. Richtering T., T. Ngai, Poly(N-isopropylacrylamide) microgels at the oil-water interface: temperature effect, *Soft Matter* 10(33) (2014) 6182–6191.
24. Samaniuk J.R., J. Vermant, Micro and macrorheology at fluid-fluid interfaces, *Soft Matter* 10(36) (2014) 7023–7033.
25. Zografov N., N. Tankovsky, A. Andreeva, Droplet oscillations driven by an electric field, *Colloid Surfaces A* 460 (2014) 351–354.
26. Colliat-Dangus P., Interfacial complexation of polymers: features and stability of millimetric emulsions, PhD Thesis, Université Pierre et Marie Curie, 2015.
27. Kazemzadeh Y., S. Ehsan Eshraghi, S. Sourani, M. Reyhani, An interface-analysing technique to evaluate the heavy oil swelling in presence of nickel oxide nanoparticles, *Journal of Molecular Liquids* 211 (2015) 553–559.
28. Kotula A.P., S.I. Anna, Regular perturbation analysis of small amplitude oscillatory dilatation of an interface in a capillary pressure tensiometer, *Journal of Rheology* 59(1) (2015) 85–117.

29. Zhang W., P.R. Waghmare, L. Chen, Z. Xu, S.K. Mitra, Interfacial rheological and wetting properties of deamidated barley proteins, *Food Hydrocolloids* 43(1) (2015) 400–409.
30. Gurkov T.G., B. Nenova, E.K. Kostova, W. Gaschler, Interfacial rheology of viscoelastic surfactant-polymer layers, in: *Colloid and Interface Chemistry for Nanotechnology* (2016) 351–367.
31. Javadi A., J. Kragel, M. Karbaschi, V.I. Kovalchuk, R. Miller, Capillary pressure experiments with single drops and bubbles, in: *Colloid and Interface Chemistry for Nanotechnology* (2016) 271–312.
32. Jiang L., S. Li, W. Yu, J. Wang, Q. Sun, Z. Li, Interfacial study on the interaction between hydrophobic nanoparticles and ionic surfactants, *Colloids and Surfaces A* 488 (2016) 20–27.
33. Powel K.C., A. Chauhan, Dynamic interfacial tension and dilatational rheology of dispersant Corexit 9500, *Colloids and Surfaces A* 497 (2016) 352–361.
34. Stadelr D., M.J. Hofmann, H. Motschmann, M. Shamonin, Automated system for measuring the surface dilatational modulus of liquid-air interface, *Measurement Science and Technology* 27(6) (2016) 065301.
35. Yu K., J. Yang, Y.Y. Zuo, Automated drop manipulation using closed-loop axisymmetric drop shape analysis, *Langmuir* 32(19) (2016) 4820–4826.
36. Pajic-Lijakovic I., M. Milivojevic, Successive relaxation cycles during long-time cell aggregate rounding after uni-axial compression, *Journal of Biological Physics* 43(2) (2017) 197–209.
37. Bentz K.C., N. Sultan, D.A. Savin, Quantitative relationship between cavitation and shear rheology, *Soft Matter* 14(41) (2018) 8395–8400.
38. Hegemann J., s. Knoche, S. Egger, M. Kott, S. Demand, A. Unverfehrt, H. Rehage, Pendant capsule elastometry, *Journal of Colloid and Interface Science* 513 (2018) 549–565.
39. Perles C.E., V.C.B. Guersoni, A.C. Bannwart, Rheological study of crude oil/water interface: The effect of temperature and brine on interfacial film, *Journal of Petroleum Science and Engineering* (2018) 835–843.
40. Yu K. J. Yang, Y.Y. Zuo, Droplet oscillation as an arbitrary waveform generator, *Langmuir* 34 (2018) 7042–7047.
41. Yang J., K. Yu, T. Tsuji, R. Jha, Y.Y. Zuo, Determining the surface dilatational rheology of surfactant and protein films with a droplet waveform generator, *Journal of Colloid and Interface Science* 537 (2019) 547–553.
42. Zografov N., Resonant droplet tensiometry driven by an electric field, *AIP Conference Proceedings* 2075 (2019) 160016.
43. Chandran Suita V., M. Rodriguez-Hakim, J. Tajuelo, G.G. Fuller, single bubble and drop techniques for characterizing foams and emulsions, *Advances in Colloid and Interface Science* 286 (2020) 102295.
44. Dai L., R. Shivananda, J. Hinrichs, J. Weiss, Foaming of acid-hydrolyzed insoluble microalgae proteins from *Chlorella protothecoides*, *Food Biophysics* 15 (2020) 368–375.
45. Subbiahdoss G., E. Reimhult, Biofilm formation at oil-water interfaces is not a simple function of bacterial hydrophobicity, *Colloids Surfaces B* 194 (2020) 111163.
46. Da C., X. Zhang, S. Alzobaidi, P. Wu, K.P. Johnston, Tuning surface chemistry and ionic strength to control nanoparticle adsorption and elastic dilatational modulus at air-brine interface, *Langmuir* 37 (2021) 5795–5809.
47. Esteves R.C., H.C. Ferraz, Evaluation of interfacial properties due to the effect of dispersing agents on Brazilian medium crude oil, *Colloids Surfaces A* 626 (2021) 127043.
48. Ginot G., F.S. Kratz, F. Walzel, J. Farago, J. Kierfeld, R. Hohler, W. Drenckhan, Pressure-deformation relations of elasto-capillary drops (droploons) on capillaries, *Soft Matter* 17 (2021) 9131–9153.
49. Tarasov V. Ye., S.S. Korobko, S.A. Kalmanovich, New method of evaluating quality characteristics of foam in detergents, *Nat. Volatiles and Essent. Oils* 8 (2021) 7906–7917.
50. Zhou B., J.T. Tobin, S. Drusch, S.A. Hogan, Interfacial properties of milk proteins: A review, *Advances of Colloid and Interface Science* 295 (2021) 102347.
51. El Omari Y., M. Yousfi, J. Duchet-Rumeau, A. Maazouz, Probing the elongational rheological behaviour at interfaces of immiscible polymer melts using dilational tensiometry: effect of viscosity and temperature on the interfacial properties, *Rheological Acta* 51 (2022) 613–636.
52. Prasser Q., D. Steinbach, A.S. Munch, R. Neubert, C. Weber, P. Uhlmann, F. Mertens, F.A. Plamper, Interfacial rearrangements of block copolymer micelles toward gelled liquid-liquid interfaces with adjustable viscoelasticity, *Small* 18 (2022) 2106956.
53. Samoylova S.S., V.E. Tarasov, complex application of a new technique for determining the volume weight of foam, *Международний Научно-Исследовательский Журнал* 7 (2022) 121.
54. Subbiahdoss G., S. Osmen, E. Reimhult, Cellulosic biofilm formation of *Komagataeibacter* in kombucha at oil-water interfaces, *Biofilm* 4 (2022) 100071.
55. Tseng W.-C., R.-Y. Tsay, T.T.-Y. Le, S. Hussain, B.A. Noskov, A. Akentiev, H.-H. Yeh, S.-Y. Lin, Evaluation of the dilational modulus of protein films by pendant bubble tensiometry, *Journal of Molecular Liquids* 349 (2022) 118113.

56. Hossain K.Z., S.A. Kamran, A. Tavakolli, M.R. Khan, Machine learning (ML)-assisted surface tension and oscillation-induced elastic modulus studies of oxide-coated liquid metal (LM) alloys, *JPhys Materials* 6 (2023) 045009.
  57. Huang Y.-H., Development of Methods for Studying the Rheology of Interfaces and Microparticles, PhD Thesis, University of British Columbia, 2023.
  58. Khan T.A., D.C. Gomes, C. Grapentin, M. Heitz, C. Mueller, Mechanisms of stabilization of proteins by surfactants, *Surfactants in Biopharmaceutical Development* (2023) 59–102.
  59. Yan G., Y. Li, H. Wang, L. He, Y. Li, L. Zhang, J. Yan, Effect of composition of emulsifier blends on aerated emulsions: Stability, thermodynamic, interfacial behavior and aeration properties, *LWT* 188 (2023) 115395.
  60. Shen L., T. Liu, H. Li, S. Li, Z. Hu, X. Jiang, H. Liu, Z. Zhang, Y. Mi, W. Yu, Quadruple-branched jellyfish-like demulsifier used for completely demulsifying water-in-oil emulsion at low temperature and its demulsification mechanism, *Fuel* 358 (2024) 130153.
  61. Al-Terke H.H., Functional liquid-fluid interfaces based on hydrophobin proteins: An experimental study for medical applications, PhD Thesis, Aalto University, 2024.
  62. Shen L., G. Ai, H. Liu, L. Zhu, L. Lai, X. Yan, W. Yu, Y. Mi, Synthesis and demulsification performance of a novel low-temperature demulsifier based on trimethyl citrate, *Journal of Harazdous Materials* 472 (2024) 134543.
- 141 P.A. Kralchevsky, M.P. Boneva, K.D. Danov, K.P. Ananthapadmanabhan, A. Lips, Method for analysis of the composition of acid soaps by electrolytic conductivity measurements, J. Colloid Interface Sci. 327 (2008) 169–179. (брой: 7)**
1. Qu X., L. Wang, S.I. Karakashev, A.V. Nguyen, Anomalous thickness variation of the foam films stabilized by weak non-ionic surfactants, *Journal of Colloid and Interface Science* 337(2) (2009) 538–547.
  2. van Nispen S.F.G.M., J.P.A. Custers, L.J.P. van den Broeke, J.T.F. Keurentjes, Characterization of the binding of multivalent ions to modified pluronic micelles by isothermal titration calorimetry and modified conductometry, *Colloid and Surfaces A: Physicochemical and Engineering Aspects* 361(1–3) (2010) 38–44.
  3. Eckert K., M. Acker, R. Tadmouri, V. Pimienta, Chemo-Marangoni convection driven by an interfacial reaction: Pattern formation and kinetics, *Chaos* 22(3) (2012) 037112.
  4. Sagitani J., Stability conditions and mechanism of cream soaps: role of glycerol, *Journal of Oleo Science* 63(4) (2014) 365–372.
  5. Sagitani H., M. Komoriya, Stability conditions and mechanism of cream soaps: effect of polyols, *Journal of Oleo Science* 64(8) (2015) 809–816.
  6. Li F., M. Chen, W. Zhang, Effect of binary/ternary fatty acids ratio and glycerin on the phase behaviors of soap solutions, *Journal of Surfactants and Detergents* 20(2) (2017) 425–434.
  7. Shah R.A., R. Masrat, M.S. Lone, S. Afzal, U. Ashraf, G.M. Rather, A.A. Dar, Solution properties and micellization behaviour of binary mixtures of sodium salts of N-tetradecanoyl alanine and N-tetradecanoyl phenylalanine surfactants, *Journal of Molecular Liquids* 248 (2019) 569–576.
- 140 P.A. Kralchevsky, K.D. Danov, J.K. Angarska, Reply to comment on “Hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: effect of electrolyte”, Langmuir 24 (2008) 2953–2953. (брой: 6)**
1. Wang L., Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants, *Int. Journal of Mineral Processing* 102–103 (2012) 58–68.
  2. Li E.Q., Vakarelski I.U., D.Y.C. Chan, S.T. Thoroddsen, Stabilization of thin liquid films by repulsive van der Waals force, *Langmuir* 30(18) (2014) 5162–5169.
  3. Lech F.J., P.A. Wierenga, H. Gruppen, M.B.J. Meinders, Stability properties of surfactant-free films at different ionic strengths: Measurements and modelling, *Langmuir* 31(9) (2015) 2777–2782.
  4. Chatzigiannakis E., J. Vermant, Breakup of thin liquid films: From stochastic to deterministic, *Physical Review Letters* 125 (2020) 158001.
  5. Peng M., T.T. Duignan, A.V. Nguyen, Significant effect of surfactant adsorption layer thickness in equilibrium foam films, *Journal of Physical Chemistry B* 124 (2020) 5301–5310.
  6. Chatzigiannakis E., Thin liquid films: Where hydrodynamics, capillary, interfacial stresses, and intermolecular forces meet, Ph.D. Thesis, ETH Zurich, 2021.
- 139 N.C. Christov, K.D. Danov, D.K. Danova, P.A. Kralchevsky, The drop size in membrane emulsification determined from the balance of capillary and hydrodynamic forces, Langmuir 24 (2008) 1397–1410. (брой: 30)**
1. Choi C.H., J.H. Jung, T.S. Hwang, C.S. Lee, In situ microfluidic synthesis of monodisperse PEG microspheres, *Macromolecular Research* 17(3) (2009) 163–167.



2. Giorno L., G. de Luca, A. Figali, E. Piacentini, E. Drioli, Membrane emulsification: principles and applications, In: Membrane Operations: Innovative Separations and Transformations, Drioli E. and Giorno E., Eds. Wiley-VCH, New York, 2009.
3. Jung J.H., C.H. Choi, T.S. Hwang, C.S. Lee, C.S., Efficient in situ production of monodisperse polyurethane microbeads in microfluidic device using increase of residence time of droplets, *Biochip Journal* 3(1) (2009) 44–49.
4. Peinemann K.-V., S.P. Nunes, L. Giorno, H.S. Ribeiro, J.J.M. Janssen, I. Kobayashi, M. Nakajima, Membrane emulsification for food application, in: Membrane Technology, Vol. 3, Ch. 7, 2010.
5. Timgren A., G. Tragardh, C. Tragardh, A model for drop size prediction during cross-flow emulsification, *Chemical Engineering Research and Design* 88(2) (2010) 229–238.
6. Zhang Y., Microfluidics: fabrication, droplets, bubbles and nanofluidics synthesis, PhD Thesis, Hong Kong University, 2010.
7. Liu W., X.-L. Yang, W.S. Winston Ho, Preparation of uniform-sized multiple emulsions and micro/nano particulates for drug delivery by membrane emulsification, *Journal of Pharmaceutical Sciences* 100(1) (2011) 75–93.
8. Vladislavljevic G.T., Emulgovanje primenom microporznihi membrana, *Voinotehnicki glasnik* 59(4) (2011) 62–78.
9. Zhang Y.X., L.Q. Wang, Microfluidics: Fabrication, Droplets, Bubbles and Nanofluidics Systems, *Advances in Transport Phenomena*, Vol. 2, 2011, 171–294.
10. Suarez M.A., Emulsificación con membranas: emulsiones monodispersas y parámetros de paso de escala, PhD Thesis, Universitat de Oviedo, Spain, 2012.
11. Suarez M.A., J. Coca, C. Pazos, Membrane emulsification: factors influencing the size and distribution of drops, *Ingenieria Quimica (Spain)* 44(505) (2012) 58–73.
12. Vladislavljevic G.T., I. Kobayashi, M. Nakajima, Production of uniform droplets using membrane, microchannel, and microfluidic emulsification devices, *Microfluidics and Nanofluidics* 13(1) (2012) 151–178.
13. Dangla R., E. Fradet, Y. Lopez, C.N. Baroud, The physical mechanisms of step emulsification, *Journal of Physics D* 46(11) (2013) 114003.
14. Suarez M.A., G. Gultierrez, J. Coca, C. Pazos, Stirred tank membrane emulsification using flat metallic membranes: a dimensional studies, *Chemical Engineering and Processing: Process Intensification* 69 (2013) 31–43.
15. Vladislavljevic G.Y., I. Kobayashi, M. Nakajima, Emulsion formation in membrane and microfluidic devices, *Emulsion Formation and Stability* 2013, 77–98.
16. Imbrogno A., E. Piacentini, L. Giorno, Micro and nano polycaprolactone particles preparation by pulsed back-and-forward cross-flow batch membrane emulsification for parenteral administration, *International Journal of Pharmaceutics* 477(1-2) (2014) 344–350.
17. Joseph S., H. Bunjes, Evaluation of shirasu porous glass (SPG) membrane emulsification for the preparation of colloidal lipid drug carrier dispersions, *European Journal of Pharmaceutics and Biopharmaceutics* 87(1) (2014) 187–186.
18. Kazazi-Hyseni F., M. Landin, A. Lathuile, G.J. Veldhuis, S. Rahimian, W.E. Hennink, R.J. Kok, C.F. van Nostrum, Computer modeling assisted design of monodisperse PLGA microspheres with controlled porosity affords zero order release of an encapsulated macromolecule for 3 months, *Pharmaceutical Research* 31(10) (2014) 2844–2856.
19. Josephides D.N., Optimising monodisperse emulsion creation, PhD Thesis, King's College London, 2015.
20. Zawala J., K. Szczepanowicz, P. Warszynski, Theoretical and experimental studies of drop size in membrane emulsification – Single pore studies of hydrodynamic detachment of droplets, *Colloids and Surfaces A* 470 (2015) 297–305.
21. Amstad E., M. Chemama, M. Eggersdorfer, L.R. Arriaga, M.P. Brenner, D.A. Weitz, Robust scalable high throughput production of monodisperse drops, *Lab on a Chip – Manipulation for Chemistry and Biology* 16(21) (2016) 4163–4172.
22. Bunjes H., C.C. Muller-Goymann, Microsystems for Emulsification, in: A. Dietzel (ed.) *Microsystems for Pharmatechnology*, Springer, 2016, 153–179.
23. Hong Y., Z. Li, Z. Gu, Y. Wang, Y. Pang, Structure and emulsification properties of octenyl succinic starch using acid-hydrolyzed method, *Starch-Starke* 69(1-2) (2017) 1600039.
24. Van Rijn C.J.M., W.G.N. Van Heugten, Droplet formation by confined liquid threads inside microchannels, *Langmuir* 33(28) (2017) 10035–10040.
25. Zhu P., L. Wang, Passive and active droplet generation with microfluidics: a review, *Lab on a Chip* 17(1) (2017) 34–75.
26. Mugabi J., N. Igura, M. Shimoda, Effect of process parameters on oil-in-water emulsion droplet size and distribution in swirl flow membrane emulsification, *Journal of Chemical Engineering of Japan* 51(3) (2018) 229–236.

27. Zhang H., S. Ryu, Drop generation in cross-flow of liquid rotating in rigid body motion, *Journal of Fluid Engineering, Transactions of the ASME* 142 (2020) 104501.
  28. Glushkova D., D. Cholakova, A. Biserova, K. Tsvetkova, S. Tcholakova, N. Denkov, Drop shape stability vs shape shifting: Role of surfactant adsorption layer, *Colloids Surfaces A* 656 (2023) 130374.
  29. Thami T., C. Fretigny, E. Verneuil, Dynamic analysis of small droplets at constant pressure and analytical model for drip systems and very low pressure drop-on-demand applications, *Flow Measurements and Instrumentation* 91 (2023) 102369.
  30. Cholakova D., M. Pantov, S. Tcholaikova, N. Denkov, Structure of Rotator Phases Formed in C13-C21 Alkanes and Their Mixtures: In Bulk and in Emulsion Drops, *Crystal Growth and Design* 24 (2024) 362–377.
- 138 K.D. Danov, D.K. Danova, P.A. Kralchevsky, Hydrodynamic forces acting on a microscopic emulsion drop growing at a capillary tip in relation to the process of membrane emulsification, J. Colloid Interface Sci. 316(2) (2007) 844–857. (брой: 17)**
1. Charcosset C., Recent advances in membrane processes for the preparation of emulsion and particles, *Biotechnology: Research, Technology and Applications* (2008) 253–276.
  2. Simulation of two phase flow in rotating microchannels, 1(1) (2008) 1–51.
  3. Giorno L., G. De Luca, A. Figali, E. Piacentini, E. Drioli, Membrane emulsification: principles and applications, In: *Membrane Operations: Innovative Separations and Transformations*, Drioli E. and Giorno E., Eds. Wiley–VCH, New York, 2009.
  4. Xie F., T.-W. Wang, Preparation of monodispersed porous polystyrene microspheres by using membrane emulsification technique, *Journal of Nanjing University of Technology* 31(6) (2009) 68–72.
  5. Xie F., T.-W. Wang, X. Xiao, Progress of study on preparation of polymeric microspheres by using membrane emulsification technique, *Modern Plastics Processing and Applications* 21(4) (2009) 59–63.
  6. Peinemann K.-V., S.P. Nunes, L. Giorno, H.S. Ribeiro, J.J.M. Janssen, I. Kobayashi, M. Nakajima, Membrane emulsification for food application, in: *Membrane Technology*, Vol. 3, Ch. 7, 2010.
  7. Shimoda M., N. Miyamae, K. Nishiyama, T. Yuasa, S. Noma, N. Igura, Swirl-flow membrane emulsification for high throughput of dispersed phase flux through shirasu porous glass (SPG) membrane, *Journal of Chemical Engineering of Japan* 44(1) (2011) 1–6.
  8. Catherine C., *Membrane Processes in Biotechnology and Pharmaceuticals* (2012) 336 p.
  9. Suarez M.A., *Emulsificación con membranas: emulsiones monodispersas y parámetros de paso de escala*, PhD Thesis, Universitat de Oviedo, Spain, 2012.
  10. Suarez M.A., J. Coca, C. Pazos, Membrane emulsification: factors influencing the size and distribution of drops, *Ingeniería Química (Spain)* 44(505) (2012) 58–73.
  11. Ghorbani H.R., V. Ghorbani, Numerical simulation of drop formation at submerged orifice in liquid, *Asian Journal of Chemistry* 25(3) (2013) 1391–1393.
  12. Matos M., M.A. Suarez, G. Gutierrez, J. Coca, C. Pazos, Emulsification with microfiltration ceramic membranes: a different approach to droplet formation mechanism, *Journal of Membrane Science* 444 (2013) 345–358.
  13. Pawlik A.K., I.T. Norton, SPG rotating membrane technique for production of food grade emulsions, *Journal of Food Engineering* 114(4) (2013) 530–537.
  14. Cao W., H. Luan, H. Wang, Application of membrane emulsification to pharmacy, *Chinese Journal of Pharmaceuticals* 45(6) (2014) TB43.
  15. Spyropoulos F., D. M. Lloid, R. D. Hancocks, A. K. Pawlik, Advances in membrane emulsification. Part B: Recent developments in modelling and scale-up approaches, *Journal of the Science of Food and Agriculture* 94(4) (2014) 628–638.
  16. Zawala J., K. Szczepanowicz, P. Warszynski, Theoretical and experimental studies of drop size in membrane emulsification – Single pore studies of hydrodynamic detachment of droplets, *Colloids and Surfaces A* 470 (2015) 297–305.
  17. El Omari Y., M. Yousfi, J. Duchet-Rumeau, A. Maazouz, Recent advances in the interfacial shear and dilational rheology of polymer systems: From fundamentals to applications, *Polymers* 14 (2022) 2844.
- 137 M.P. Boneva, N.C. Christov, K.D. Danov, P.A. Kralchevsky, Effect of electric-field-induced capillary attraction on the motion of particles at an oil–water interface, Phys. Chem. Chem. Phys. 9 (2007) 6371–6384. (брой: 40)**
1. McGorty R., J. Fung, D. Kaz, V.N. Manoharan, Colloidal self-assembly at an interface, *Materials Today* 13(6) (2010) 34–42.
  2. Wagner C.S., B. Fischer, M. May, A. Wittemann, Templated assembly of polymer particles into mesoscopic clusters with well-defined configurations, *Colloid and Polymer Science* 288(5) (2010) 487–498.

3. Masram D.T., K.P. Kariya, N.S. Bhavé, Physicochemical study of resin derived from p-hydroxybenzoic acid, diaminobenzoic acid with formaldehyde and its electrical conductivity study, *Chemistry Journal* 1(1) (2011) 1–8.
4. Masschaele K., Vermant J., Electric field controlled capillary traps at water/oil interfaces, *Soft Matter* 7(22) (2011) 105971–10600.
5. Sinha A., A.K. Mollah, S. Hardt, R. Ganguly, Particle dynamics and separation at liquid-liquid interfaces, *Soft Matter* 9(22) (2013) 5438–5447.
6. Maestro A., Guzman E., Ortega F., Rubio R.G., Contact angle of micro- and nanoparticles at fluid interfaces, *Current Opinion in Colloid and Interface Science* 19(4) (2014) 355–367.
7. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, *Langmuir* 31(49) (2015) 13290–13302.
8. Fan W., M. Chen, S. Yang, L. Wu, Centrifugation-assisted assembly of colloidal silica into crack-free and transferrable films with tunable crystalline structures, *Scientific Reports* 5 (2015) No. 12100.
9. Frampton J.P., B.M. Leung, E.L. Bigham, S.C. Leshner-Perez, J.D. Wang, H.T. Sarhan, M.E.H. El-Sayed, S.E. Feinberg, S. Takayama, Rapid self assembly of macroscale tissue constructs at biphasic aqueous interfaces, *Advanced Functional Materials* 25(11) (2015) 1694–1699.
10. Kassuga T.D., J.P. Rothstein, Buckling of particle-laden interfaces, *J. Colloid Interface Science* 448 (2015) 287–296.
11. Kassuga T.D., J.P. Rothstein, The effect of shear and confinement on the buckling of particle-laden interfaces, *Journal of Physics Condensed Matter* 28(2) (2015) 025101.
12. Maestro A., E. Santini, D. Zabiegaj, S. Lamas, F. Ravera, L. Liggieri, F. Ortega, R.G. Rubio, E. Guzman, Particle and particle-surfactant mixtures at fluid interfaces: Assembly, morphology, and rheological description, *Advances in Condensed Matter Physics* 2015 (2015) 917516.
13. Cappelli S., Magnetic particles at fluid-fluid interfaces: microrheology, interaction and wetting, PhD Thesis, Technical University, Eindhoven, 2016.
14. Cappelli S., A.M. De Jong, J. Baudry, M.W.J. Prins, Interparticle capillary forces at fluid-fluid interface with strong polymer-induced aging, *Langmuir* 33 (2017) 696–705.
15. Kang D.W., M. Lee, K.H. Kim, M. Xia, S.H. Im, B.J. Park, Electrostatic interactions between particles through heterogeneous fluid phases, *Soft Matter* 13(37) (2017) 6647–6658.
16. Lee D.-G., P. Cicuta, D. Vella, Self-assembly of repulsive interfacial particles via collective sinking, *Soft Matter* 13(1) (2017) 212–221.
17. Zuo Z., J. Wang, Y. Huo, R. Xu, Characteristics of particles deposited on a single free-fall charged droplet, *Aerosol Science and Technology* 51(3) (2017) 258–268.
18. Laal-Dehghani N., R. Khare, G.F. Christopher, 2D stokesian approach to modeling flow induced deformation of particle laden interfaces, *Langmuir* 34(3) (2018) 904–916.
19. Pham A.T., Phase transitions, crystal growth, and dynamics of dislocations in colloidal monolayers, PhD Thesis, Department of Mechanical Engineering and Material Science, Duke University, 2018.
20. Das S., J. Koplik, R. Farinato, D.R. Nagaraj, C. Maldarelli, P. Somasundaran, The translation and rotational dynamics of a colloid moving along the air-liquid interface of a thin film, *Scientific Reports* 8 (2018) 8910.
21. Maestro A., E. Santini, E. Guzman, Physico-chemical foundation of particle-laden fluid interfaces, *The European Physical Journal E* August (2018) 41–97.
22. Eigenbrod M., The influence of boundary configuration on the dissipation and stability in fluids at low Reynolds numbers, PhD Thesis, Darmstadt Technological University, 2020.
23. Feng X., H. Dai, L. Ma, Y. Fu, Y. Yu, H. Zhou, T. Guo, H. Zhu, H. Wang, Y. Zhang, Properties of Pickering emulsion stabilized by food-grade gelatin nanoparticles: influence of the nanoparticles concentration, *Colloids and Surfaces B* 196 (2020) 111294.
24. Loudet J.-C., M. Qiu, J. Hemaue, J.J. Feng, Drag force on a particle straddling a fluid interface: influence of interfacial deformation, *The European Physical Journal E* 43 (2020) 13.
25. Das S., J. Koplik, P. Somasundaran, C. Maldarelli, Pairwise hydrodynamic interactions of spherical colloids at a gas-liquid interface, *Journal of Fluid Mechanics* 915 (2021) A99.
26. Guzman E., Abelenda-Nunez I., Maestro A., Ortega F., Santamaria A., Rubio R.G., Particle-laden fluid/fluid interfaces: Physico-chemical foundation, *Journal of Physics Condensed Matter* 33 (2021) 333001.
27. Hermauer J., M. Qiu, J.J. Feng, J.-C. Loudet, Particle rotation speeds up capillary interactions, *The European Physical Journal E* 44 (2021) 30.
28. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
29. Zhao H., J. Li, S. Yang, J. Liu, W. Liu, Molecular dynamics study of structural properties of refining slag with various CaO/Al<sub>2</sub>O<sub>3</sub> ratios, *Materials* 11 (2021) 398.

30. Dani A., Y. Mohsen, C. Maldareli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
31. Denk J., M. Molaie, N.G. Chisholm, T. Yao, A. Read, K.J. Stebe, Active colloids on fluid interfaces, *Current Opinion in Colloid and Interface Science* 61 (2022) 101629.
32. Fajardo C., G. Martinez-Rodriguez, J. Blasco, J.M. Mancera, B. Thomas, M. De Donato, Nanotechnology in aquaculture: Applications, perspectives and regulatory challenges, *Aquaculture and Fisheries* 7 (2022) 185–200.
33. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Capillary interaction between micron-sized  $\text{Ce}_2\text{O}_3$  inclusions at the Ar gas/liquid steel interface, *Metallurgical and Materials Transactions B* 53 (2022) 1775–1791.
34. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Behavior of arbitrary shaped  $\text{Ce}_2\text{O}_3$  clusters at the Ar gas/liquid steel interface, *Metallurgical and Materials Transactions B* 53 (2022) 3896–3908.
35. Song Y., W. Yu, Z. Liu, Y. Huang, M. Li, D. Li, Electrokinetic transportation and differentiation of copper and aluminum particles in oil with an oil-water interface, *Colloids and Surfaces A* 641 (2022) 128397.
36. Wang C., Q. Gao, 3D numerical study of the electrokinetic motion of a microparticle adsorbed at a horizontal oil/water interface in an infinite domain, *ACS Omega* 7 (2022) 4062–4070.
37. Лебедева Е.В., А.М. Дюгаев, П.Д. Григорьев, Диагностика микрочастиц на поверхности воды, *ЖЭТФ* 161 (2022) 767–772.
38. Protiere S., Particle rafts and armored droplets, *Annual Review of Fluid Mechanics* 55 (2023) 459–480.
39. Shen Q., H. Dai, L. Wen, W. Zheng, B. Li, J. Dai, B. Li, Y. Chen, Effects of pH-shifting treatments on the emulsifying properties of rice protein isolates: Quantitative analysis of interfacial protein layer, *Food Research International* 164 (2023) 112306.
40. Han M., B. Yuan, D. Li, Micro-scale characterization of nanoparticles adsorption onto oil-water interface and detachment capacity of oil film, *Journal of Molecular Liquids* 397 (2024) 124024.

**136 I.B. Ivanov, K.G. Marinova, K.D. Danov, D. Dimitrova, K.P. Ananthapadmanabhan, A. Lips, Role of the counterions on the adsorption of ionic surfactants, *Adv. Colloid Interface Sci.* 134–135 (2007) 105–124. (брой: 53)**

1. Karakashev S.I., A.V. Nguyen, J.D. Miller, Equilibrium adsorption of surfactants at the gas–liquid interface, *Advances in Polymer Science* 218(1) (2008) 25–55.
2. Lima E.R.A., M. Bostrom, D. Horinek, E.C. Bicaia Jr., W. Kunz, F.W. Tavares, Co-ion and ion competition effects: ion distributions close to a hydrophobic solid surface in mixed electrolyte solutions, *Langmuir* 24 (2008) 3944–3948.
3. Leontidis E., A. Aroti, L. Bellioni, Liquid expanded monolayers of lipids as model systems to understand the anionic hofmeister series: 1. A tale of models, *Journal of Physical Chemistry B* 113(5) (2009) 1447–1459.
4. Maiti K., D. Mitra, S. Guha, S.P. Mulik, Salt effect on self-aggregation of sodium dodecylsulfate (SDS) and tetradecyltrimethylammonium bromide (TTAB): Physicochemical correlation and assessment in the light of Hofmeister (lyotropic) effect, *Journal of Molecular Liquids* 146(1–2) (2009) 44–51.
5. Paeslak R., Tensidbeeinflusste Metallionendurchtritt durch Flüssig-flüssig-Phasengrenzen im elektrischen Feld, PhD Thesis, Freiburg TU, 2009.
6. Aleiner G.S., O.G. Ys'yarov, Electrical double layer at ionic surfactant solution–air interface, *Colloid Journal* 72(6) (2010) 731–736.
7. Imai Y., K. Shimamoto, T. Takiue, H. Matsubara, M. Aratono, Study on surface adsorption from cationic surfactant–electrolyte mixed aqueous solution including  $\text{BF}_4^-$  ion, *Colloid and Polymer Science* 288(9) (2010) 1005–1011.
8. Leite E.F., Sínteses e propriedades físico-químicas de novos tensoativos a base de oleaginosas brasilienses, MSc Thesis, Escola de Engenharia de Lorena, 2010.
9. Skrzela R., G. Para, P. Warszynski, K.A. Wilk, Experimental and theoretical approach to nonequivalent adsorption of novel dicarboxylic ammonium surfactants at the air/solution interface, *Journal of Physical Chemistry B* 114(32) (2010) 10471–10480.
10. Wojciechowski K., M. Kucharek, W. Wroblewski, P. Warszynski, On the origin of the Hofmeister effect in anion-selective potentiometric electrodes with tetraalkylammonium salts, *Journal of Electroanalytical Chemistry* 638 (2010) 204–211.
11. De Ruiter R., R.W. Tjerkstra, M.H.G. Duits, F. Mugele, Influence of cationic composition and pH on the formation of metal stearates at oil-water interfaces, *Langmuir* 27(14) (2011) 8738–8747.
12. Li H.H., Y. Imai, M. Yamanaka, Y. Hayami, T. Takiue, H. Matsubara, M. Aratono, Specific counterion effect on the adsorbed film of cationic surfactant mixtures at the air/water interface, *J. Colloid Interface Science* 359(1) (2011) 189–193.
13. Middleton S.R., N.R. Pallas, J. Mingins, B.A. Pethica, Thermodynamics of ionized monolayers: Surface manometry on very low density spread monolayers of sodium octadecyl sulfate at the air/water interface and



- analysis of ionic double layer contributions to the isotherms, *Journal of Physical Chemistry C* 115(16) (2011) 8056–8063.
14. Rujirawanich V., S. Chavadej, J.H. O'Haver, R. Rujiravanit, Removal of trace  $\text{Cd}^{2+}$  using continuous multistage ion foam fractionation. Part III-Effect of salt addition, *Colloids and Surfaces A* 385(1–3) (2011) 171–180.
  15. Striolo A., From interfacial water to macroscopic observables: A review, *Adsorption Science and Technology* 29(3) (2011) 211–258.
  16. Chanda S., D. Das, J. Das, K. Ismail, Adsorption characteristics of sodium dodecylsulfate and cetylpyridinium chloride at air/water, air/formamide and air/water formamide interfaces, *Colloid Surfaces A* 399 (2012) 56–61.
  17. Imai Y., H. Takumi, H. Tanida, I. Watanabe, T. Takiue, H. Matsubara, M. Aratono, Study of the distribution of binary mixed counterions in surfactant adsorbed films by total reflection XAFS measurements, *J. Colloid Interface Science* 388(1) (2012) 219–224.
  18. Li Z., Y. Pang, Y. Ge, X. Giu, Adsorption of different molecular weight lignosulfonates on dimethomorph powder in an aqueous system, *Journal of Industrial and Engineering Chemistry* 18(1) (2012) 532–537.
  19. Peterskova M., C. Valderrama, O. Gibert, J.L. Cortina, Extraction of valuable metal ions (Cs, Rb, Li, U) from reverse osmosis concentrate using selective sorbents, *Desalination* 286 (2012) 316–323.
  20. Slavshov R., J.K. Novev, Surface tension of concentrated electrolyte solutions, *Journal of Colloid and Interface Sci.* 387(1) (2012) 234–243.
  21. Imai Y., H. Li, T. Takiue, H. Matsubara, M. Aratono, Solvation structure of counterion of ionic liquids at water surface by total reflection XAFS, *Anal Sci* 34(4) (2013) 179–184.
  22. Mucic N., A. Javadi, M. Karbashi, A. Shapirova, V. Fainerman, E. Aksenenko, N. Kovalchuk, R. Miller, Surfactant adsorption kinetics, *Encyclopedia of Colloid and Interface Science*, 2013, 1090–1126.
  23. Saïen J., F. Moghaddamnia, M. Mishi, Simultaneous influence of uni-univalent salt aqueous solutions and sodium dodecyl sulfate surfactant on interfacial tension of toluene-water, *Korean Journal of Chemical Engineering* 30(5) (2013) 1125–1130.
  24. Behera M.R., S.R. Varade, P. Ghosh, P. Paul, A.S. Negi, Foaming in micellar solutions: Effects of surfactants, salts, and oil concentrations, *Industrial and Engineering Chemistry Research* 53(48) (2014) 18497–18507.
  25. Imai Y., Specific ion effects on counterion distribution in surfactant adsorbed films studied through surface tensiometry and total reflection XAFS, PhD Thesis, Kyoto University, 2014.
  26. Karakashev S.I., How to determine the adsorption energy of the surfactant's hydrophilic head? How to estimate easily the surface activity of every simple surfactant? *J. Colloid Interface Sci.* 432 (2014) 98–104.
  27. Nguyen K.T., A.V. Nguyen, In situ investigation of halide co-ion effects on SDS adsorption at air-water interface, *Soft Matter* 10(34) (2014) 6558–6563.
  28. Roche M., Z. Li, I.M. Griffiths, S. Le Roux, I. Cantat, A. Saint-Jalmes, H.A. Stone, Marangoni flow of soluble amphiphiles, *Physical Review Letters* 112(20) (2014) 208302.
  29. Wojciechowski K., Hofmeister effect in ion-selective electrodes from the fluid-fluid interface perspective, in: *Colloid and Interface Chemistry for Nanotechnology*, 2014, 369–405.
  30. Zhang H.Y. Influence of bivalent ion on oil/water interfacial properties, *Advanced Materials Research* 1033–1034 (2014) 486–490.
  31. Gabdrachmanov D., D. Samarkina, V. Semenov, V. Syakev, R. Giniatulin, N. Gogoleva, V. Reznik, S. Latypov, A. Konovalov, A. Pokrovsky, Y. Zuev, L. Zakharova, Novel dicationic pyrimidinic surfactant: Self-assembly and DNA complexation, *Colloid Surfaces A* 480 (2015) 113–121.
  32. Karakashev S.I., S.K. Smoukov, Fast estimation of equilibrium adsorption constants of ionic surfactants with account for ion-specific effects, *Colloids Surfaces A* 467 (2015) 143–148.
  33. Sett S., S.I. Karakashev, S.K. Smoukov, A.I. Yarin, Ion-specific effects in foams, *Advances in Colloid and Interface Science* 225 (2015) 98–113.
  34. Zhong H., L. Yang, G. Zeng, M.L. Brusseau, Y. Wang, Y. Li, Z. Liu, X. Yuan, F. Tan, Aggregate-based sub-CMC solubilisation of hexadecane by surfactants, *RSC Advances* 5(95) (2015) 78142–78149.
  35. Peshkova T.V., I.L. Minkov, R. Tsekov, R.I. Slavchov, Adsorption of ions at uncharged insoluble monolayers, *Langmuir* 32(35) (2016) 8858–8871.
  36. Shahir A.A., A.V. Nguyen, S.I. Karakashev, A quantification of immersion of the adsorbed ionic surfactants at liquid/fluid interfaces, *Colloid Surfaces A* 509 (2016) 279–292.
  37. Wojciechowski K., Hofmeister effect in ion-selective electrodes from the fluid-fluid interface perspective, *Colloid and Interface Chemistry for Nanotechnology* 2016 369–401.
  38. Martinez-Balbuena L., A. Arteaga-Jimenez, E. Fernandez-Zapata, C. Martinez-Beltran, Applicability of the Gibbs adsorption isotherm to the analysis of experimental surface-tension data for ionic and nonionic surfactants, *Advances in Colloid and Interface Science* 247 (2017) 178–184.
  39. Zhang C., T. Geng, Y. Jiang, L. Zhao, H. Ju, Y. Wang, Impact of NaCl concentration on equilibrium and dynamic surface adsorption of cationic surfactants in aqueous solution, *Journal of Molecular Liquids* 238 (2017) 423–429.

40. Zhang C., Y. Jiang, H. Ju, Y. Wang, T. Geng, Lipophilic counterion effect on aggregation and adsorption behavior of quaternary ammonium surfactants, *Journal of Dispersion Science and Technology* 38 (2017) 1817–1823.
  41. Hofmann M.J., Studies of ionic surfactant systems using surface rheology with a focus on the oscillating bubble technique, PhD Thesis, Regensburg University, Germany, 2018.
  42. Shahir A.A., K. Khristov, K.T. Nguyen, A.V. Nguyen, E. Mileva, Combined sum frequency generation and thin liquid film study of the specific effect of monovalent cations on the interfacial water structure, *Langmuir* 34 (2018) 6844–6855.
  43. Jurek I., I. Goral, K. Gesinski, K. Wojciechowski, Effect of saponins from quinoa on a skin-mimetic lipid monolayer containing cholesterol, *Steroids* 147 (2019) 52–57.
  44. Karakashev S.I., M. Firuozzi, J. Wang, L. Alexandrova, A.V. Nguyen, On the stability of thin films of pure water, *Advances in Colloid and Interface Science* 268 (2019) 82–90.
  45. Karakashev S.I., N.A. Grozev, The law of Parsemony and the negative charge of the bubbles, *Coatings* 10 (2020) 1003.
  46. Karakashev S.I., Ion-specific effects on equilibrium adsorption layers of ionic surfactants, *Applied Chemical Engineering* 3 (2020) 53–67.
  47. Sagir M., M. Mushtaq, M.S. Tahir, M.B. Tahir, A.R. Shaik, Challenges of chemical EOR, *Surfactants for Enhanced Oil Recovery Applications*, Springer (2020) 117–129.
  48. Gabovich A.M., A.I. Voitenko, electrostatic image force energy for charges in three-layers structures: Exact formulas and their approximations, *Journal of Physics Condensed Matter* 33 (2021) 205002.
  49. Nguyen C.V., M. Peng, T.T. Duignan, A.V. Nguyen, Salting-up of surfactants at the surface of saline water as detected by tensiometry and SFG and supported by molecular dynamics simulation, *Journal of Physical Chemistry B* 126 (2022) 1063–1075.
  50. Fritz S.R., Characterization of Green Surfactants With Dicarboxylate Polar Head, PhD Thesis, Texas A&M University, 2023.
  51. Peychev B. R.I. Slavchov, Interactions between Small Inorganic Ions and Uncharged Monolayers on the Water/Air Interface, *Journal of Physical Chemistry B* 127 (2023) 2801–2817.
  52. Petkova N., D. Ivanova-Stancheva, N.A. Grozev, K. Mircheva, S.I. Karakashev, Counter-Ion Effect on the Surface Potential of Foam Films and Foams Stabilized by 0.5 mmol/L Sodium Dodecyl Sulfate, *Coatings* 14 (2024) 51.
  53. Parra J.G., P. Iza, H. Dominguez, E. Schott, X. Zarate, Unveiling the hydrophilic nature of SDS surfactant through molecular simulations: Exploring the influence of charge distribution on interfacial properties in the vacuum/SDS/water system, *Journal of Molecular Liquids* 401 (2024) 124692.
- 135 V.K. Badam, V. Kumar, F. Durst, K.D. Danov, Experimental and theoretical investigations on interfacial temperature jumps during evaporation, *Experimental Thermal and Fluid Sci.* 32 (2007) 276–292. (брой: 152)**
1. Das K.S., Steady parallel flow in an evaporating fluid heated from sidewalls, *Physica B* 404 (2009) 3986–3990.
  2. Duan F., C.A. Ward, Investigation of local evaporation flux and vapor–phase pressure at an evaporative droplet interface, *Langmuir* 25(13) (2009) 7424–7431.
  3. Genceli F.E., M.R. Pascual, S. Kjelstrup, G.J. Witkamp, Coupled heat and mass transfer during crystallization of MgSO<sub>4</sub> 7H<sub>2</sub>O on a cooled surface, *Crystal Growth and Design* 9(3) (2009) 1318–1326.
  4. Glavatskiy K., Multi-component interfacial transport as described by the square gradient model: evaporation and condensation, PhD Thesis, Norwegian University of Science and Technology, Faculty of Natural Sciences and Technology, 2009.
  5. Jafarnejad A., Exploration of the effects of pressure and temperature on the evaporation rate of selected liquids, PhD Thesis, University of Alberta, Canada, 2009.
  6. Thompson I., F. Duan, C.A. Ward, Absence of Marangoni convection at Marangoni numbers above 27,000 during water evaporation, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 80(5) (2009) 056308.
  7. Zao J.-F., Z.-D. Li, Z.-H. He, Note on jump conditions across liquid–gas interface with phase change, *Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics* 30(11) (2009) 1942–1945.
  8. Bargery A.S., S.J. Lane, A. Barrett, L. Wilson, J.S. Gilbert, The initial responses of hot liquid water released under low atmospheric pressures: Experimental insights, *Icarus* 210(1) (2010) 488–506.
  9. Das K.S., B.D. MacDonald, C.A. Ward, Stability of evaporating water when heated through the vapor and the liquid phases, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 81(3) (2010) 036318.
  10. Duan F., Experimental study of water evaporation enhanced by surface heating, 14<sup>th</sup> International Heat Transfer Conference, IHTC14, 2010, Washington, 797–802.

11. Ghasemi H., C.A. Ward, Energy transport by thermocapillary convection during sessile–water–droplet evaporation, *Phys. Rev. Letters* 105(13) (2010) 136102.
12. Glavatskiy K.S., D. Bedeaux, Transport of heat and mass in a two–phase mixture: From a continuous to a discontinuous description, *Journal of Chemical Physics* 133(14) (2010) 144709.
13. Pan Z., H. Wang, Symmetry–to–asymmetry transition of Marangoni flow at a convex volatilizing meniscus, *Microfluidics and Nanofluidics* 9(4–5) (2010) 657–669.
14. Persad A.H., C.A. Ward, Statistical rate theory examination of ethanol evaporation, *Journal of Physical Chemistry B* 114(18) (2010) 6107–6116.
15. Persad A.H., C.A. Ward, Statistical rate theory examination of ethanol evaporation, 61<sup>st</sup> International Astronautical Congress 2010, IAC 2010, 8 (2010) 6724–6734.
16. Widiyastuti W., R. Balgis, F. Iskandar, K. Okuyama, Nanoparticle formation in spray pyrolysis under low–pressure conditions, *Chemical Engineering Science* 65(5) (2010) 1846–1854.
17. Yu Q., S. Cai, Z. Zhu, Q. Liu, B. Zhou, Droplet image feedback control system in evaporation experiment, *Microgravity Science and Technology* 22(2) (2010) 139–144.
18. Zhou J., C. Shao, G.U. Boqin, Estimation of temperature jump at a solid liquid boundary of a nanoscale heat transfer system, 2010, paper.edu.cn.
19. Ghasemi H., Sessile water droplets: Equilibrium and evaporation, PhD Thesis, Department of Mechanical and Industrial Engineering, Toronto University, Canada, 2011.
20. Glavatskiy K., Multicomponent interfacial transport described by the square gradient model during evaporation and condensation introduction, *Springer Theses – Recognizing Outstanding PhD Research*, 2011, 1–15.
21. MacDonald B.D., C.A. Ward, Onset of Marangoni convection for evaporating liquids with spherical interfaces and finite boundaries, *Phys. Rev. E* 84(4) (2011) 046319.
22. Persad A.H., C.A. Ward, Expressions for the evaporation and condensation coefficients in the Hertz-Knudsen relation, 62nd International Astronautical Congress 2011, IAC 2011; Cape Town; 3-7 October 2011; Code91159.
23. Ranjan R., J.Y. Murthy, S.V. Garimella, U. Vadakkan, A numerical model for transport in flat heat pipes considering wick microstructure effects, *International Journal of Heat and Mass Transfer* 54(1–3) (2011) 153–168.
24. Safiane K., M.E.R. Shanahan, M. Antoni, Wetting and phase change: Opportunities and challenges, *Current Opinion in Colloid and Interface Science* 16(4) (2011) 317–325.
25. Ancellin M., L. Brosset, J.-M. Ghidaglia, Influence of phase transition on sloshing impact pressures described by a generalized Bagnold’s model, *Proceeding of the International Offshore and Polar Engineering Conference* 2012 300–310.
26. Savin T., K.S. Glavatskiy, S. Kjelstrup, H.C. Ottinger, D. Bedeaux, Local equilibrium of the Gibbs interface in two-phase systems, *EPL* 97(4) (2012) Art. 40002.
27. Smith K.M., A. Cihan, V.V. Ngo, T.H. Illangasekare, Reply to comment by Michael D. Novak on “Evaporation from soils under thermal boundary conditions: Experimental and modeling investigation to compare equilibrium and nonequilibrium approaches”, *Water Resources Research* 48(5) (2012) Art. W05550.
28. Struchtrup H., S. Kjelstrup, D. Bedeaux, Temperature-difference-driven mass transfer through the vapor from a cold to a warm liquid, *Physical Review E* 85(6) (2012) Art. 061201.
29. Yu J., H. Wang, A molecular dynamics investigation on evaporation of thin liquid films, *Int. Journal of Heat and Mass Transfer* 55(4) (2012) 1218–1225.
30. Garcia M., Experimental and theoretical investigation of instability within a heated meniscus, PhD Thesis, Carleton University, Ottawa, Canada, 2013.
31. Glavatskiy K., D. Bedeaux, Non-equilibrium thermodynamics for surfaces; square gradient theory, *European Physical Journal: Special Topics* 222(1) (2013) 161–175.
32. Hoyos J.P.C.M., Surface steam sterilization: steam penetration in narrow channels, PhD Thesis, Eindhoven University, 2013.
33. Karatay E., P.A. Tsai, R.G.H. Lammertlink, Rate of gas adsorption on a slippery bubble mattress, *Soft Matter* 9(46) (2013) 11098–11106.
34. Pan Z., H. Wang, Benard-Marangoni instability of evaporating menisci in capillary channels, *International Journal of Heat and Mass Transfer*, 63 (2013) 239–248.
35. Struchtrup H., S. Kjelstrup, D. Bedeaux, Analysis of temperature difference driven heat and mass transfer in the Phillips-Onsager cell, *International Journal of Heat and Mass Transfer* 58(1–2) (2013) 521–531.
36. Persad A.H., K. Safiane, C. Ward, Source of temperature and pressure pulsations during sessile droplet evaporation into multicomponent atmosphere, *Langmuir* 29(43) (2013) 13239–13250.
37. Zhu Z.-Q., Q.-S. Liu, Interfacial temperature discontinuities in a thin liquid layer during evaporation, *Microgravity Science and Technology* 25(4) (2013) 243–249.

38. Castaneda-Uribe O.A., J.C. Salcedo-Reyes, H.A. Mendez-Pinzon, A.M. Pedroza-Rodriguez, Fabrication of FCC-SiO<sub>2</sub> colloidal crystals using the vertical convective self-assemble method, AIP Conference Proceedings 1958 (2014) 43–46.
39. Gleason K., S.A. Putnam, Microdroplet evaporation with a forced pinned contact line, Langmuir 30(34) (2014) 10548–10555.
40. Gleason K., Experimental and numerical investigation of microdroplet evaporation with a forced pinned contact line, PhD Thesis, University of Central Florida, 2014.
41. Solomon A.B., K. Ramachandran, L. Godson Asirvatham, B.C. Pillai, Numerical analysis of a screen mesh wick heat pipe with Cu/water nanofluid, International Journal of Heat and Mass Transfer 75 (2014) 523–533.
42. Still M., T. Gambaryan-Roisman, P. Stephan, Experimental investigation of the interfacial temperature evolution during evaporation of sessile droplet, IHTC 15 (2014) No 119334.
43. Alberts S., P. Srikanth, S.H. Collicotti, S. Heisterz, Experiment design for measuring accommodation coefficients for modeling of long-duration spaceflight cryogenic propellants, IECES (2015) Code 130529.
44. Foncubierta Blazquez J.L., I. Rodriguez Maestre, F.J. Gonzalez Gallero, O. Iglesias Bahia, Metodologia para el calculo de la tasa de evaporacion en piscinas cubiertas mediante CFD, IX Congreso Nacional de Ingenieria Termodinamica – Cartagena 3-5 de junio de 2015.
45. Gatapova E. Ya., I.A. Garaur, F. Sharipov, O.A. Kabov, The temperature and pressure jumps at the vapor-liquid interface: Application to two-phase cooling system, International Journal of Heat and Mass Transfer 83 (2015) 235–243.
46. Gerasimov D.N., E.I. Yurin, Parameters determining kinetic properties on an evaporation surface, High Temperature 53(4) (2015) 502–508.
47. Gun'ko V.M., R. Nasiri, S.S. Sazhin, Effects of the surroundings and conformerisation of n-dodecane molecules on evaporation/condensation processes, The Journal of Chemical Physics 142(3) (2015) 034502.
48. Guner E.G., J. Wahlin, M. Hinge, S. Kjelstrup, The temperature jump at a growing ice-water interface, Chemical Physics Letters 622 (2015) 15–19.
49. Klink C., C. Waibel, J. Gross, Analysis of interfacial transport resistivities of pure components and mixtures based on density functional theory, Industrial and Engineering Chemistry Research 54 (2015) 11483–11492.
50. Qin T., Z. Tukovic, R.O. Grigoriev, Buoyancy-thermocapillary convection of volatile fluids under their vapors, International Journal of Heat and Mass Transfer 80 (2015) 38–49.
51. Schweizer M., Brownian and nonisothermal effects in nucleation theory: Towards systematic multiscale modeling, PhD Thesis, ETH Zurich, 2015.
52. Wang X., Numerical simulation of two-dimensional bubble dynamics and evaporation, PhD Thesis, Faculty of Engineering Science, KU Leuven, 2015.
53. Wilhelmssen O., T.T. Trinh, S. Kjelstrup, D. Bedeaux, Influence of curvature on the transfer coefficient for evaporation and condensation of Lennard-Jones fluid from square-gradient theory and nonequilibrium molecular dynamics, Journal of Physical Chemistry C 119(15) (2015) 8160–8173.
54. Yadavali Y., J.A. Weibel, S.V. Garimella, Performance-governing transport mechanisms for heat pipes at ultrathin form factors, IEEE Transactions on Components, Packaging and Manufacturing Technology 5(11) (2015) 1618–1627.
55. Farokhnia N., P. Irajizad, S.S. Saijadi, H. Ghasemi, Rational micro/nanostructuring for thin-film evaporation, Journal of Physical Chemistry C 120(16) (2016) 8742–8750.
56. Guner F.E.G., Non-equilibrium thermodynamics of aqueous solution-crystal interfaces, in: Experimental Thermodynamics, Vol. X, Croydon, UK, 2016.
57. Heinen M., J. Vrabec, J. Fischer, Evaporation: Influence of heat transport in the liquid on the interface temperature and the particle flux, Journal of Chemical Physics 145(8) (2016) 081101.
58. Lin T.Y., C.C. Wu, T.L. Chen, A novel method considered mass and energy conservation for both liquid and vapor in adsorption refrigeration systems, International Refrigeration and Air Conditioning Conference 2016 Pap. No. 1769.
59. Persad A.H., C.A. Ward, Expressions for the evaporation and condensation coefficients in the Hertz-Knudsen relation, Chemical Reviews 116(14) (2016) 7727–7767.
60. Qin T., Buoyancy-thermocapillary convection of volatile fluids in confined and sealed geometries, PhD Thesis, School of Mechanical Engineering, Georgia Institute of Technology, 2016.
61. Schweizer M., H.C. Ottinger, T. Savin, Physical Review E 93(5) (2016) 052803.
62. Srikanth P., S. Alberts, S.H. Collicott, S. Heister, Numerical approach to measure accommodation coefficients for long-duration space flight cryogenic propellants, 52<sup>nd</sup> AIAA/SAE/ASME Conference 2016, p. 13.
63. Adnadievic B., M. Gigov, J. Jovanovich, Comparative analyses on isothermal kinetics of water evaporation and PAAG hydrogel dehydration under the microwave heating conditions, Chemical Engineering Research and Design 122 (2017) 113–120.
64. Ancellin M., Sur la modélisation physique et numérique du changement de phase interfacial lors d'impacts de vagues, PhD Thesis, Université Paris-Saclay, 2017.



65. Blazquez J.L.F., I.R. Maestre, F.J.G. Gallero, P.A. Gomez, A new practical CFD-based methodology to calculate the evaporation rate in indoor swimming pools, *Energy and Buildings* 149 (2017) 133–141.
66. Gatapova E.Y., I.A. Graur, O.A. Kabov, V.M. Aniskin, M.A. Filipenko, F. Sharipov, L. Tadriss, The temperature jump at water-air interface during evaporation, *International Journal of Heat and Mass Transfer* 104 (2017) 800–812.
67. Gerasimov D.N., E.I. Yurin, Potential energy distribution function and its application to the problem of evaporation, *Journal of Physics: Conference Series* 891(1) (2017) 012005.
68. Kazemi M.A., D.S. Nobes, J.A.W. Elliott, Effect of the thermocouple on measuring the temperature discontinuity at a liquid-vapour interface, *Langmuir* 33(28) (2017) 7169–7180.
69. Kazemi M.A., D.S. Nobes, J.A.W. Elliott, Experimental and numerical study of the evaporation of water at low pressure, *Langmuir* 33(18) (2017) 4578–4591.
70. Lamorgese A., R. Mauri, L.M.C. Sagis, Modeling soft interface dominated systems: A comparison of phase field and Gibbs dividing surface models, *Physics Reports* 675 (2017) 1–54.
71. Liang Z., T. Biben, P. Keblinski, Molecular simulation of steady-state evaporation and condensation: Validity of the Schrage relationships, *International Journal of Heat and Mass Transfer* 114 (2017) 105–114.
72. Persad A.H., C.A. Ward, The quantum of energy transported during evaporation: Investigation of a fundamental constant, *Proceedings of the International Astronautical Congress. IAC* 4 (2017) 2332–2334.
73. Prosperetti A., Vapor bubbles, *Annual Review of Fluid Mechanics* 49 (2017) 221–248.
74. Qin T., Buoyancy-thermocapillary convection of volatile fluids in confined and sealed geometries, PhD Thesis, George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA, 2017.
75. Stewart M.E.M., Pressurization of a flightweight, liquid hydrogen tank: Evaporation & condensation at the liquid/vapor interface, *AIAA Propulsion and Energy Forum Atlanta GA* (2017) AIAA 2017–4916.
76. Ancellin M., L. Brosset, J.-M. Ghidaglia, Numerical simulation of wave-impact with interfacial phase change: An isothermal averaged model, *European Journal of Mechanics* 72 (2018) 631–644.
77. Ancellin M., L. Brosset, J.-M. Ghidaglia, Numerical study of phase change influence on wave impact loads in LNG tanks on floating structures, *Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering* 9 (2018) 140007.
78. Bedeaux D., S. Kjelstrup, Fluid-fluid interfaces of multi-component mixtures in local equilibrium, *Entropy* 20(4) (2018) 250.
79. Egging H.J., A.J.H. Frijns, T.W.M. Janssen, G. Martin, Numerical and experimental feasibility study of vapor chambers for LED applications, *SEMI-THERM-2018-Proceedings* (2018) 71–80.
80. Gerasimov D.N., E.I. Yurin, Temperature jump on the evaporation surface, *Kinetics of Evaporation, Springer Series in Surface Science* 68 (2018) 233–270.
81. Jafari P., A. Masoudi, P. Irajizad, Evaporation mass flux: A predictive model and experiments, *Langmuir* 34 (2018) 11676–11684.
82. Kazemi M.A., D.S. Nobes, J.A.W. Elliott, Investigation of the phenomena occurring near the liquid-vapour interface during evaporation of water at low pressures, *Physical Review Fluids* 3 (2018) 124001.
83. Kazemi M.A., J.A.W. Elliott, D.S. Nobes, The influence of container geometry and thermal conductivity on evaporation of water at low pressures, *Scientific Reports* 8 (2018) 15121.
84. Polikarpov A.P., A. Graur, Heat and mass transfer in a rarefied gas confined between its two parallel condensed phases, *International Journal of Heat and Mass Transfer* 124 (2018) 967–979.
85. Soltanzadeh H., The extended Navier-Stokes equations and their application to the lay-out of diffusion dryers, PhD Thesis, Erlangen-Nuernberg University, Germany, 2018.
86. Wilhelmsen O., T.T. Trinh, A. Lervik, Temperature anisotropy at equilibrium reveals nonlocal entropic contributions to interfacial properties, *Physical Review E* 97 (2018) 012126.
87. Zhao S., Y. Liu, Y. Liu, P. Na, CFD-based numerical simulation of water film flash evaporation with a new flash evaporation model, *Transactions of Tianjin University* 24 (2018) 563–570.
88. Betsema R., S.V. Nedea, A.J.H. Frijns, Measurements of the interfacial temperature jump during steady-state evaporation of a droplet, *Proceedings of the International Symposium on Thermal Effects in Gas Flow in Microscale* (2019) ISTEGIM 2019–285315.
89. Chandra A., P. Keblinski, O. Sahni, A.A. Oberai, A continuum framework for modeling liquid-vapor interfaces out of local thermal equilibrium, *International Journal of Heat and Mass Transfer* 144 (2019) 118597.
90. Cruz C., D. Barragan, E. Magnanelli, A. Lervik, L. Kjelstrup, Non-equilibrium thermodynamics as a tool to compute temperature at the catalyst surface, *Physical Chemistry Chemical Physics* 21(27) (2019) 15195–15205.

91. Herrera B., F. Chejne, M.B.H. Mantelli, J. Mejia. K. Cagua, A. Gallego, Population balans for capillary limit modeling in a screen mesh wick heat pipe working with nanofluids, *Interbational Journal of Thermal Science* 138 (2019) 134–158.
92. Nazari M., A. Masoudi, P. Jafari, P. Irajizad, V. Kashyap, H. Ghasemi, Ultrahigh evaporative heat fluxes in nanoconfined geometries, *Langmuir* 35(1) (2019) 78–85.
93. Nazari M., M. Gorman, H. Ghasemi, Unprecedented capillary evaporative heat flux in nanochannels, 18<sup>th</sup> ITherm 2019 doi: 10.1109/ITHERM.2019.8757337.
94. Polykarpov A.P., I.A. Graur, E.Y. Gatapova, O.A. Kabov, Kinetic simulation of the non-equilibrium effects at the liquid-vapor interface, *International Journal of Heat and Mass Transfer* 136 (2019) 449–456.
95. Srikanth P., S.H. Collicott, Estimation of thin-film contribution in phase change calculations involving cryogenic propellants, *Journal of Spacecrafts and Rockets* 56(5) (2019) 1646–1650.
96. Tang Y., S.-I. Zhu, L.-M. Qiu, Determination of mass transfer coefficient for condensation simulations, *International Journal of Heat and Mass Transfer* 143 (2019) 118485.
97. Zigelman A., M. Abo Jabal, O. Manor, Analysis of the oscillatory wetting-sewetting motion of a volatile drop during the deposition of polymer on a solid substrate, *Soft matter* 15(17) (2019) 3580–3587.
98. Zudin Y.B., Binary schemes of vapour bubble growth, *Mathematical Engineering* 2019 157–184.
99. Ancellin M., L. Brosset, J.-M. Ghidaglia, On the liquid-vapor phase-change interface conditions for numerical simulations of violent separated flows, *Fluid Dynamics and Materials Processing* 16 (2020) 359–381.
100. Bhendura M., K. Muralidhar, S. Khadekar, Introduction to evaporative heat transfer, *Drop Dynamics and Dropwise Condensation and Texture Surfaces* (2020) Springer 131–146.
101. Chandra A., P. Keblinski, Investigating the validity of Schrage relationships for water using molecular dynamics simulations, *Journal of Chemical Physics* 153 (2020) 124505.
102. Donkers P. K. Gao, J. Houben, H. Huinink, B. Erich, O. Adan, Effect of non-condensable gasses on the performance of a vacuum thermochemical reactor, *Energies* 13 (2020) 362.
103. Gallero F.J.G., I.R. Maestre, J.L. Foncubierta Blazquez, J.D. Mena Balades, Enhanced CFD-based approach to calculate the evaporation rate of swimming pools, *Science and Technology for the Build Environment* 27 (2020) 524–532.
104. Guo R., C. Wu, J. Yu, Y. Li, Experimental investigation on evaporation interface temperature and evaporation rate of water in its own vapor at low pressures, *CIESC Journal* 71 (2020) 5489–5497.
105. Guo R.-F., L. Zhang, D.-M. Mo, C.-M. Wu, Y.-R. Li, Measurement of temperature profile near the evaporating interface in an annular pool with radial temperature gradients at low pressures, *Experimental Thermal and Fluid Science* 119 (2020) 110221.
106. Jafari P., A. Armitkar, H. Ghasemi, Temperature discontinuity at an evaporating water interface, *Journal of Physical Chemistry C* 124 (2020) 1554–1559.
107. Kingston D., O. Wilhelmsen, S. Kjelstrup, The influence of interfacial transfer and film coupling in the modeling of distillation columns to separate nitrogen and oxygen mixtures, *Chemical Engineering Science: X* 8 (2020) 100076.
108. Lamanna G., C. Steinhäusen, B. Weigand, On the importance of kinetic effects in the modelling of droplet evaporation at high pressure and temperature conditions. In: Lamanna G., Tonini S., Cossali G., Weigand B. (eds) *Droplet Interactions and Spray Processes. Fluid Mechanics and Its Applications*, vol 121, Springer, (2020) 277–286.
109. Rokoni A., Y. Sun, Probing the temperature profile across a liquid-vapor interface upon phase change, *Journal of Chemical Physics* 153 (2020) 144706.
110. Stierle R., C. Waibel, J. Gross, C. Steinhäusen, G. Lamanna, On the selection of boundary conditions for droplet evaporation and condensation at high pressure and temperature conditions from interfacial transport resistivities, *International Journal of Heat and Mass Transfer* 151 (2020) 119450.
111. Benet J.C., S. Ouoba, F. Ouedraogo, F. Cherblanc, Experimental study of water evaporation rate, at the surface of aqueous solution, under the effect of a discontinuity of chemical potential – Effect of water activity and air pressure, *Experimental Thermal and Fluid Science* 121 (2021) 110233.
112. Castaneda-Urbe O.A., Mendez-Pinzon H.A., Salcedo-Reyes J.C., Controlling the quality of SiO<sub>2</sub> colloidal crystals by temperature ramping on the vertical convective self-assembly method, *Optical Materials Express* 11 (2021) 2686–2699.
113. Chandra A., Z. Liang, A.A. Oberai, O. Sahni, P. Keblinski, On the applicability of continuum scale models for ultrafast nanoscale liquid-vapor phase change, *International Journal of Multiphase Flow* 135 (2021) 103508.
114. Davoodabadi A., H. Ghasemi, Evaporation in nano/molecular materials, *Advances in Colloid and Interface Science* (2021) 102385.
115. Graur I.A., E. Ya. Gatapova, M. Wolf, M. A. Batueva, Non-equilibrium evaporation: 1D benchmark problem for single gas, *International Journal of Heat and Mass Transfer* 181 (2021) 121997.
116. Guo R.-F., L. Zhang, D.-M. Mo, C.-M. Wu, Y.-R. Li, Study of evaporation characteristics of water in annular liquid pool at low pressures, *ACS Omega* 6 (2021) 5933–5944.

117. Guo R.-F., Zhang, D.-M. Mo, C.-M. Wu, Y.-R. Li, Investigation of evaporation characteristics of ethanol in annular pool with different liquid layer depths at low pressures, *International Journal of Heat and Mass Transfer* 122 (2021) 122322.
118. He Y., K. Xiong, E. Xia, Growth of dry patches in an evaporating film flowing around a horizontal circular tube, *International Communications in Heat and Mass Transfer* 125 (2021) 105291.
119. Homes S., M. Heinen, J. Vrabec, J. Fischer, Evaporation driven by conductive heat transport, *Molecular Physics* 119 (2021) e1836410.
120. Kazemi M.A., C.A. Ward, Assessment of the statistical rate theory expression for evaporation mass flux, *International Journal of Heat and Mass Transfer* 179 (2021) 121709.
121. Leite V.B., D. Kalempa, I. Graur, Kinetic modeling of evaporation and condensation phenomena around a spherical droplet, *International Journal of Heat and Mass Transfer* 166 (2021) 120719.
122. Yuan J., A study on the evaporation and dynamic wicking in a passive air freshener, PhD Thesis, Arizona State University, 2021.
123. Zou Z., W. Jiang, P. Pan, X. Qin, Y. Huang, Quasi-equilibrium evaporation characteristics of oxygen in the liquid-vapor interfacial region, *International Communications in Heat and Mass Transfer* 129 (2021) 105697.
124. Amir F.M., M.Z. Yusoff, S.H.A. Hassan, Heat transfer mechanism and characteristics of fluid film on multi-faceted surface under constant cross-flow conditions, *International Journal of Heat and Mass Transfer* 197 (2022) 123363.
125. Chen G., On the molecular picture and interfacial temperature discontinuity during evaporation and condensation, *International Journal of Heat and Mass Transfer* 191 (2022) 122845.
126. Guo R.-F., L. Zhang, D.-M. Mo, Y.-R. Li, Energy transfer mechanism during ethanol evaporation with external tangential temperature gradient under low pressure environment, *Applied Energy* 316 (2022) 119117.
127. Guo R.-F., L. Zhang, D.-M. Mo, C.-M. Wu, Y.-R. Li, Investigation on evaporation characteristics of ethanol in annular pool with different liquid layer depths at low pressures, *International Journal of Heat and Mass Transfer* 185 (2022) 122322.
128. Gutierrez Plascencia J., Thermal and mass transfer resistance through the liquid-gas interface of an evaporating nanodroplet, PhD Thesis, California State University, 2022.
129. Jung B., K. Park, Y. Sohn, J. Oh, J.C. Lee, H.W. Jung, Y. Seo, Y. Lim, Prediction model of LNG weathering using net mass and heat transfer, *Energy* 247 (2022) 123325.
130. Karakaya I., Investigation of the effect of design parameters on vapor chamber heat transfer characteristics, PhD Thesis, Middle East Technical University, 2022.
131. Murray B., Characterization of evaporation kinetics and wettability using a quartz crystal microbalance, PhD Thesis, Rensselaer Polytechnic Institute, New York, 2022.
132. Rauscher P.M., H.C. Ottinger, J.J. de Pablo, Nonequilibrium statistical thermodynamics of multicomponent interfaces, *Applied Physical Science* 119 (2022) e2121405119.
133. Rauter M.T., A. Aasen, S. Kjelstrup, O. Wilhelmsen, A comparative study of experiments and theories on steady-state evaporation of water, *Chemical Thermodynamics and Thermal Analysis* 8 (2022) 100091.
134. Sun Y., X. Tang, X. Ji, X. Lu, X. Ling, Analysis of vapor-liquid interfacial transport resistivities with DGT-PC-SAFT based on the general approach, *Industrial and Engineering Chemistry Research* 61 (2022) 16352–16367.
135. Tamura M., T. Omatsu, T. Iida, Nanoneedle formation via doughnut beam-induced Marangoni effects, *Optics Express* 30 (2022) 35136–35145.
136. Wan S.-B., L. Zhang, D.-M. Mo, C.-M. Wu, Y.-R. Li, Numerical investigation on water evaporation characteristics at low pressures in a stainless-steel funnel, *International Journal of Thermal Sciences* 175 (2022) 107488.
137. Zhao T.Y., N.A. Patankar, The thermodynamic principle determining the interface temperatures during phase change, *International Journal of Heat and Mass Transfer* 198 (2022) 123389.
138. Bellur K., E.F. Medici, J.C. Hermanson, C.K. Choi, J.S. Allen, Modeling liquid-vapor phase change experiments: Cryogenic hydrogen and methane, *Colloid Surfaces A* 675 (2023) 131932.
139. Blazquez J.L.F., I.R. Maestre, F.J.G. Gallero, L. Perez-Lombard, M. Bottarelli, Experimental adjustment of the turbulent Schmidt number to model the evaporation rate of swimming pools in CFD programmes, *Case Studies in Thermal Engineering* 41 (2023) 102665.
140. Foncubierto B., L. Juan, I.R. Maestre, F.J. Gonzalez Gallero, L. Perez-Lombard, M. Bottarelli, Experimental adjustment of the turbulent Schmidt number to model the evaporation rate of swimming pools in CFD programmes, *Case Studies in Thermal Engineering* 41 (2023) 102665.
141. Jha A., D. Campbell, C. Montelle, P.L. Wilson, On the Continuum Fallacy: Is Temperature a Continuous Function? *Foundations of Physics* 53 (2023) 69.
142. Polikarpov A.Ph., I.O. Yunusov, Ph.J. Polikarpov, Molecular dynamics simulations of unsteady evaporation of thin liquid argon layer into a vacuum, *Vacuum* 208 (2023) 111733.

143. Skarbalius G., A. Dziugys, E. Misiulis, R. Navakas, The impact of the temperature control strategy in steady-state virtual vacuum simulation on the spontaneous evaporation rate and corresponding evaporation coefficient, *Applied Sciences* 13 (2023) 256.
  144. Song Z., Y. Zhou, L. Ai, M. Chen, M. Ma, Predicting evaporation/condensation mass fluxes using a chemical kinetics framework: Pseudo-chemical potential as the activation energy, *International Journal of Heat and Mass Transfer* 212 (2023) 124244.
  145. Zuo Z., W. Zhu, Y. Huang, Experimentla investigation on energy and mass transport at steady-state evaporating interfae in liquid methane storage tanks, *Applied Thermal Engineering* 226 (2023) Art. No 120258.
  146. Chen G., Interfacial cooling and heating, temperature discontinuity and inversion in evaporation and condensation, *International Journal of Heat and Mass Transfer* 218 (2024) 124762.
  147. Jha A., Does Topology Provide Sufficient Structure for Non-Causal Explanations? PhD Thesis, University of Canterbury, New Zealand, 2023.
  148. Struchtrup H., J. Jahandideh, A. Couteau, A. Frezzotti, Heat transfer and evaporation processes from the Enskog-Vlasov equation and its moment equations, *International Journal of Heat and Mass Transfer* 223 (2024) 125238.
  149. Wan S.-B., F. Zhang, L. Zhang, C.-M. Wu, Y.-R. Li, Effect of buoyancy-thermocapillary convection on evaporation process of water in cylindrical pool heated by sidewall at low pressures, *International Communications in Heat and Mass Transfer* 153 (2024) 107353.
  150. Chakrabarti U., A. Yasin, K. Bellur, J.S. Allen, An investigation of phase change induced Marangoni-dominated flow patterns using the Constrained Vapor Bubble data from ISS experiments, *Frontiers in Space Technologies* 4 (2023) 1263496.
  151. Wan S.-B., F. Zhang, L. Zhang, C.-M. Wu, Y.-R. Li, Study on evaporation induced flow characteristics and interfacial phenomena of water in a sidewall-heated cylindrical pool at low pressures, *International Journal of Heat and Mass Transfer* 227 (2024) 125547.
  152. Skarbalius G., Molecular dynamics study of energetic characteristics of evaporating, condensing and reflecting molecules at the liquid-vapor interface, PhD Thesis, Lithuanian Energy Institute, 2024.
- 134 E.S. Basheva, P.A. Kralchevsky, K.D. Danov, K.P. Ananthapadmanabhan, A. Lips, The colloid structural forces as a tool for particle characterization and control of dispersion stability, *Phys. Chem. Chem. Phys.* 9 (2007) 5183–5198. (брой: 60)**
1. Blawdziewicz J., E. Wajnryb, Equilibrium and nonequilibrium thermodynamics of particle-stabilized thin liquid films, *Journal of Chemical Physics* 129(19) (2008) 194509.
  2. Wasan D., A. Nikolov, Thin liquid films containing micelles or nanoparticles, *Current Opinion in Colloid and Interface Science* 13 (3) (2008) 128–133.
  3. Tolosa J., U.H.F. Bunz, Water Soluble Cruciforms: Effect of Surfactants on Fluorescence, *Chemistry – an Asian journal* 4(2) (2009) 270–276.
  4. Nikolov A., K. Kondiparty, D. Wasan, Nanoparticle self-structuring in a nanofluid film spreading on a solid surface, *Langmuir* 26(11) (2010) 7665–7670.
  5. Verbrugghe M., E. Coguit, P. Saveyn, P. Sabatino, D. Sinnaeve, J.C. Martins, P. van der Meeren, Quantification of hydrophilic ethoxylates in polysorbate surfactants using diffusion 1H NMR spectroscopy, *Journal of Pharmaceutical and Biomedical Analysis* 51(3) (2010) 583–589.
  6. von Klitzing R., E. Thormann, T. Nylander, D. Langevin, C. Stubenrauch, Confinement of linear polymers, surfactants, and particles between interfaces, *Adv. Colloid Interface Sci.* 155 (2010) 19–31.
  7. Kondiparty K., A. Nikolov, D. Wasan, Wetting and spreading of nanofluids on solid surfaces driven by the structural disjoining pressure: Statics analysis and experiments, *Langmuir* 27(7) (2011) 3324–3335.
  8. Stanimirova R., K. Marinova, S. Tcholakova, N.D. Denkov, S. Stoyanov, E. Pelan, Surface rheology of saponin adsorption layers, *Langmuir* 27(20) (2011) 12486–12498.
  9. Wasan D., A. Nikolov, K. Kondiparty, The wetting and spreading of nanofluids on solids: Role of the structural disjoining pressure, *Current Opinion in Colloid and Interface Science* 16(4) (2011) 344–349.
  10. Kondiparty K., A.D. Nikolov, D. Wasan, K.-L. Liu, Dynamic spreading of nanofluids on solids: I. Experimental, *Langmuir* 28(41) (2012) 14618–14623.
  11. Liu K.-L., K. Kondiparty, A.D. Nikolov, D. Wasan, Dynamic spreading of nanofluids on solids: II. Modeling, *Langmuir* 28(47) (2012) 16274–16284.
  12. Mezei A., L. Perez, A. Pinazo, F. Comalles, M.R. Infante, R. Pons, Self assembly of pH-sensitive cationic lysine based surfactants, *Langmuir* 28(49) (2012) 16761–16771.
  13. Zeng Y., Scintific background, in: *Colloidal Dispersions Under Silt-Pore Confinement*, Springer, 2012, 2–51.



14. Zeng Y., Y. Zeng, Structuring of nonionic surfactant micelles, in: *Colloidal Dispersions Under Silt-Pore Confinement*, Springer, 2012, 99–111.
15. Erramreddy V.V., S. Ghosh, Influence of emulsifier concentration on nanoemulsion gelation, *Langmuir* 30(37) (2014) 11062–11074.
16. Lee J., A. Nikolov, D.T. Wasan, Surfactant micelles containing solubilized oil decrease foam film thickness stability, *J. Colloid Interface Science* 415 (2014) 18–25.
17. Mehtala J.G., A. Wei, Nanometric resolution in the hydrodynamic size analysis of ligand-stabilized gold nanorods, *Langmuir* 30 (2014) 13737–13743.
18. Sett S., R.P. Sahu, S. Sinha-Ray, A.L. Yarin, Superspreaders versus “cousin” non-superspreaders: disjoining pressure in gravitational film drainage, *Langmuir* 30(10) (2014) 2619–2631.
19. Briscoe W.H., Depletion forces between particles immersed in nanofluids, *Current Opinion in Colloid and Interface Science* 20(1) (2015) 46–53.
20. Erramreddy V.V., S. Ghosh, Influence of droplet size on repulsive and attractive nanoemulsion gelation, *Colloids Surfaces A* 484 (2015) 144–152.
21. Jin J., Y. Wang, H. Ma, Wetting transition and water block removal of gas wetting nano SiO<sub>2</sub> particles on rock cores, *Drilling Fluid and Completion Fluid* 32(6) (2015) 5–10.
22. Yoeun S., J.-I. Kim, O. Han, Cellular localization and detergent dependent oligomerization of rice allene oxide synthase-1, *Journal of Plant Research* 128(1) (2015) 201–209.
23. Ponomareva O.A., N.A. Trushkin, I.S. Filimonov, A.V. Krivoshey, V.I. Barkhatov, S.I. Mitrofanov, P.V. Vrzheschch, Prostaglandin H synthase kinetics in the two-phase aqueous-micellar system, *Biochimica et Biophysica Acta – Biomembranes* 1858(9) (2016) 2199–2207.
24. Zhang Y. S. Yilixiati, C. Pearsall, V. Sharma, Nanoscopic terraces, mesas, and ridges in freely standing thin films sculpted by supramolecular oscillatory surface forces, *ACS Nano* 10(4) (2016) 4678–4683.
25. Cho H.K., A.D. Nikolov, D.T. Wasan, Step-wise velocity of an air bubble rising in a vertical tube filled with a liquid dispersion of nanoparticles, *Langmuir* 33(11) (2017) 2920–2928.
26. Lotito V., t. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
27. Shariffa Y.N., T.B. Tan, U. Uthumporn, F. Abas, H. Mirhosseini, I.A. Nehdi, Y.-H. Wang, Production of lycopene nanodispersion: Formulation development and the effect of high pressure homogenization, *Food Research International* 101 (2017) 165–172.
28. Aljabali A.A.A., E. Hussein, O. Aljumaili, M.A. Zoubi, B. Altrad, K. Albatayneh, M.A.A. Al-razaq, Rapid magnetic nanobiosensor for the detection of *Serratia marcescens*, *IOP Conference Series* 305 (2018) 012005.
29. Arunkumar T., M. Anish, J. Jayaprabakar, N. Beemkumar, Enhanced heat transfer rate in a car radiator by using Al<sub>2</sub>O<sub>3</sub> nanofluid as a coolant, *International Journal of Ambient Energy* 40 (2019) 367–373.
30. Kadiya K., S. Ghosh, Conversion of viscous oil-in-water nanoemulsions to viscoelastic gels upon removal of excess ionic emulsifier, *Langmuir* 35 (2019) 17061–17074.
31. Ludwig M., M.U. Witt, R. von Klitzing, Bridging the gap between two different scaling laws for structuring of liquids under geometrical confinement, *Advances in Colloid and Interface Science* 269 (2019) 270–276.
32. Yilixiati S., E. Wojcik, Y. Zhang, V. Sharma, Spinodal stratification in ultrathin micellar foam films, *Molecular Systems Design and Engineering* 4(3) (2019) 626–638.
33. Bakhom J.P., O.M.A. Mbaye, P.A. Diaw, L. Cisse, M. Mbaye, M.D. Gaye-Seye, A. Coly, B. Le Jeune, P. Giamarchi, Analysis of oxadiazon herbicide in natural water samples by a micellar-enhanced photo-induced fluorescence, *Analytical Sciences* 36 (2020) P390.
34. Ludwig M., R. von Klitzing, Recent progress in measurements of oscillatory forces and liquid properties under confinement, *Current Opinion in Colloid and Interface Science* 47 (2020) 137–152.
35. Gross-Rother J., M. Blech, E. Preis, U. Bakowsky, P. Garidel, Particle detection and characterization for biopharmaceutical applications: Current principles for established and alternative techniques, *Pharmaceutics* 12 (2020) 1112.
36. Garidel P., M. Blech, J. Buske, A. Blume, Surface tension and self-association properties of aqueous polysorbate 20 HP and 80 HP solutions: Insights into protein stabilization mechanisms, *Journal of Pharmaceutical Innovation* 16 (2021) 726–734.
37. Janssen F., A.G.B. Wouters, E. Chatzigiannakis, J.A. Delcour, J. Vermant, Thin film drainage dynamics of wheat and rye dough liquors and oat batter liquor, *Food Hydrocolloids* 116 (2021) 106624.
38. Kadiya K., The effect of interfacial composition on the dispersed phase-induced gelation and controlled digestion of mono and bilayer nanoemulsions, PhD Thesis, University of Saskatchewan, Canada, 2021.
39. Kaysan G., A. Rica, G. Guthausen, M. Kind, Contact-mediated nucleation of subcooled droplets in melt emulsions: A microfluidic approach, *Crystals* 11 (2021) 1471.
40. Ludwig M., R. Geisler, S. Prevost, R. von Klitzing, Shape and structure formation of mixed nonionic-anionic surfactant micelles, *Molecules* 26 (2021) 4136.

41. Ludwig M., R. von Klitzing, Untangling superposed double layer and structural forces across confined nanoparticle suspensions, *Physical Chemistry Chemical Physics* 23 (2021) 1325–1334.
  42. Ludwig M., Surface forces across colloidal dispersions, PhD Thesis, Darmstadt Technical University, Germany, 2021.
  43. Trunov D., J.F. Wilson, M. Jezkova, O. Srom, J. Baranek, O. Dammer, M. Soos, Monitoring of particle sizes distribution during Valsartan precipitation in the presence of nonionic surfactant, *International Journal of Pharmaceutics* 600 (2021) 120515.
  44. Vafakish B., D.W. Lee, A review on recent progress of glycan-based surfactant micelles as nanoreactor systems for chemical synthesis applications, *Polysaccharides* 2 (2021) 168–186.
  45. Abdulhadi O.O., Rahmman I.A.A.A., Obaid A.S., Characterizing of chromium oxide nanoparticles formation from solution plasma synthesis by plasma jet, *AIP Conference Proceedings* 2660 (2022) 020120.
  46. Bae K.H., F. Lai, J. Mong, A. Niibori-Nambu, K.H. Chan, Z. Her, M. Osato, M.-H. Tan, Q. Chen, M. Kurisawa, Bone marrow-targetable green tea catechin-based micellar nanocomplex for synergistic therapy of acute myeloid leukemia, *Journal of Nanobiotechnology* 20 (2022) 481.
  47. Kaysan G., N. Schork, S. Herberger, G. Guthausen, M. Kind, Contact-mediated nucleatin in melt emulsions investigated by rheo-nuclear magnetic resonance, *Magnetic Resonance in Chemistry* 60 (2022) 615–627.
  48. Kaysan G., R. Kraling, M. Manuel, H. Nirshl, G. Guthausen, M. Kind, Investigation of the surfactant distribution in oil-in-water emulsions during the crystallization of the dispersed phase via nuclear magnetic resonance relaxometry and diffusometry, *Magnetic Resonance in Chemistry* 60 (2022) 1131–1147.
  49. Lashkari S., Ionic liquid/surfactant mixtures as multi-functional electrolytes for graphene-based supercapacitors, PhD Thesis, University of Waterloo, Canada, 2022.
  50. Lashkari S., M. Chekini, R. Pal, M.A. Pope, Aqueous, mixed micelles as a means of delivering the hydrophobic ionic liquid EMIM TFSI to graphene oxide surfaces, *Langmuir* 38 (2022) 531–540.
  51. Mikhailovskaya A., E. Chatgiziannakis, D. Renggli, J. Vermant, C. Monteux, From individual liquid films to macroscopic foam dynamics: A comparison between polymers and a nonionic surfactant, *Langmuir* 38 (2022) 10768–10780.
  52. Molnar D., M. Rohm, J. Wutz, I. Rivec, A. Michel, G. Klotz, J. Hubbuch, K. Schindowski, I. Presser, A novel MATLAB®-algorithm-based video analysis to quantitatively Determine solution creeping in intact pharmaceutical glass vials, *European Journal of Pharmaceutics and Biopharmaceutics* 178 (2022) 117–130.
  53. Boger T., M. Engelhardt, F.T. Suh, K. Richter, A. Sanchez-Ferer, Wood-water interactions of primers to enhance wood-polyurethane bonding performance, *Wood Science and Technology* 2023, doi: <https://doi.org/10.1007/s00226-023-01508-z>
  54. Kaade W., S. Rubio, A. Bogas-Droy, V. de Villedon, E. Laurichesse, V. Schmitt, Highly Concentrated Emulsions Containing High Loads of Pterostilbene, *ACS Omega* 8 (2023) 25951–25959.
  55. Prakash R., J. Lee, Y. Moon, D. Pradhan, S.-H. Kim, H.-Y. Lee, Experimental Investigation of Cavitation Bulk Nanobubbles Characteristics: Effects of pH and Surface-Active Agents, *Langmuir* 39 (2023) 1968–1986.
  56. Sorinolu A.J., M.M. Mamun, H. Vadarevu, J.L. Vivero-Escoto, E.P. Vejerano, M. Munir, Antiviral activity of nano-monocaprin against Phi6 as a surrogate for SARS-CoV-2, *International Microbiology* 26 (2023) 379–387.
  57. Eftekhari M., K. Schwarzenberger, S. Karakashev, N.A. Grozev, K. Eckert, Oppositely charged surfactants and nanoparticles at the air-water interface: Influence of surfactant to nanoparticle ratio, *Journal of Colloid and Interface Science* 653 (2024) 1388–1401.
  58. Anuj N., N. Akmal, New insights into antibubble formation by single drop impact on a same-liquid pool, *Journal of Colloid and Interface Science* 662 (2024) 19–30.
  59. Kanamori T., D. Nakabun, S. Kojo, H. Watarai, H. Yuasa, Photoswitching CD1d-restriction of TCR by  $\alpha$ -GalCer analogs with azobenzene in the middle of acyl chain, *Journal of Photochemistry and Photobiology A: Chemistry* 451 (2024) 115501.
  60. Songca S.P., Sol-Gel, Phase Inversion Precipitation, Supercritical Fluid, and Microfluidic Systems for Controlled Delivery of Bioactive Compounds in Nutraceuticals and Nano-Nutraceuticals, *Handbook of Nutraceuticals* (2024) 1–31.
- 133 **P.A. Kralchevsky, K.D. Danov, C.I. Pishmanova, S.D. Kralchevska, N.C. Christov, K.P. Ananthapadmanabhan, A. Lips, Effect of the precipitation of neutral–soap, acid soap, and alkanolic acid crystallites on the bulk pH and surface tension of soap solutions, *Langmuir* 23 (2007) 3538–3553. (брой: 45)**
1. Fernandez–Leyes M.D., P.C. Schulz, P.V. Messina, pH and surface tension dependence of mixed sodium deoxycholate–sodium dehydrocholate pre–micellar aggregation in aqueous solution, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 329(1–2) (2008) 24–30.

2. Jiang W., J. Hao, Z. Wu, Anisotropic ionogels of sodium laurate in a room-temperature ionic liquid, *Langmuir* 24 (2008) 3150–3156.
3. Prisle N.L., T. Raatikainen, R. Sorjamaa, B. Svenningsson, A. Laaksonen, M. Bilde, Surfactant partitioning in cloud droplet activation: A study of C8, C10, C12 and C14 normal fatty acid sodium salts, *Tellus, Series B: Chemical and Physical Meteorology* 60B(3) (2008) 416–431.
4. Andreev V.A., J.M. Prausnitz, C.J. Radke, Meniscus-shear particle detachment in foam-based cleaning of silicon wafers with an immersion/withdrawal cell, *Industrial and Engineering Chemistry Research* 49(24) (2010) 12461–12470.
5. Jarek E., T. Jasinski, W. Barzyk, P. Warszynski, The pH regulated surface activity of alkanolic acids, *Colloid Surfaces A* 354(1–3) (2010) 188–196.
6. Svensson, M., Surfactants based on natural fatty acids, in: *Surfactants from Renewable Resources*, Kjellin, M. and Johansson, I., Eds.; Wiley, New York, 2010; Ch. 1, p. 15.
7. Andreev V.A., E.M. Freer, J.M. de Larios, J.M. Prausnitz, C.J. Radke, Silicon-wafer cleaning with aqueous surfactant-stabilized gas/solid suspensions, *Journal of the Electrochemical Society* 158(1) (2011) H55–H62.
8. Cape J.L., P.-A. Monnardab, J.M. Boncella, Prebiotically relevant mixed fatty acid vesicles support anionic solute encapsulation and photochemically catalyzed trans-membrane charge transport, *Chemical Science* 2(4) (2011) 661–671.
9. Chernyshova I.V., S. Ponnuram, P. Somasundaran, Adsorption of fatty acids on iron (hydr)oxides from aqueous solutions, *Langmuir* 27(16) (2011) 10007–10018.
10. Eastoe J., M.H. Hatzopoulos, P.J. Dowding, Action of hydrotropes and alkyl-hydrotropes, *Soft Matter* 7(13) (2011) 5917–5925.
11. Pereira R.F.P., M.J. Tapia, A.J.M. Valente, H.D. Burrows, Effect of Metal Ion Hydration on the Interaction between Sodium Carboxylates and Aluminum(III) or Chromium(III) Ions in Aqueous Solution, *Langmuir* 28(1) (2011) 168–177.
12. Fameau A.-L., J. Ventureira, B. Novales, J.-P. Douliez, Foaming and emulsifying properties of fatty acids neutralized by tetrabutylammonium hydroxide, *Colloid Surfaces A* 403 (2012) 87–95.
13. Pereira R.F.P., A.J.M. Valente, M. Fernandes, H.D. Burrows, What drives the precipitation of long-chain carboxylates (soap) in aqueous solution? *Physical Chemistry Chemical Physics* 14(20) (2012) 7517–7527.
14. Pereira R.F.P., *Interações entre íons metálicos e surfactantes aniônicos*, PhD Thesis, Departamento de Química, Universidade de Coimbra, Portugal, 2012.
15. Ponnuram S., Chernishova I.V., Somasundaran P., Rational design of interfacial properties of ferric (Hydr)oxide nanoparticles by adsorption of fatty acids from aqueous solutions, *Langmuir* 28(29) (2012) 10661–10671.
16. Ponnuram S., Tailoring the (bio)activity of polymeric and metal oxide nano- and microparticles in biotic and abiotic environments, PhD Thesis, Columbia University, 2012.
17. Schelero N., R. von Klitzing, V.B. Fainerman, R. Miller, Chain length effect on complex formation in solutions of sodium alkanolates and tetradecyl trimethyl ammonium bromide, *Colloid Surfaces A* 413 (2012) 115–118.
18. Chowdhury D., S. Bhunia, T.K. Barik, Study the liquid surface capillary wave profile by optical method, *International Journal of Soft Computing and Engineering* 2(6) (2013) 386–390.
19. Huang D., X. Chen, Z. Li, Formation of pyrrolidinium fatty acid soap and its lyotropic liquid crystalline phase behavior, *Colloid Surfaces A* 426 (2013) 55–62.
20. Jackson L.P., C. Townsend, B.P. Grady, Mixtures of nonionic surfactants made from renewable resources with alkyl sulfates and sodium n-alkanecarboxylates: comparison of mixing behavior using Rubingh's treatment, *Journal of Surfactants and Detergents* 16(6) (2013) 893–902.
21. Pereira R.F.P., A.J.M. Valente, H.D. Burrows, V.M.M. Lobo, Potentiometric study of the interactions between divalent cations and sodium carboxylates in aqueous solution, *Novel Materials* 2013, 199–207.
22. Yu G., Surfactants derived from 2-hydroxy-4-(methylthio)butyric acid: phase behavior, interfacial activity, microemulsions and more, PhD Thesis, Norman, Oklahoma, 2013.
23. Douliez J.P., C. Gaillard, Self-assembly of fatty acids: from foams to protocell vesicles, *New Journal of Chemistry* 38(11) (2014) 5142–5148.
24. Jackson L.P., R. Andrade, I. Pleasant, B.P. Grady, Effect of pH and surfactant precipitation on surface tension and CMC determination of aqueous sodium n-alkyl carboxylate solutions, *Journal of Surfactants and Detergents* 17(5) (2014) 911–917.
25. Pereira R.F.P., A.J.M. Valente, H.D. Burrows, The interactions of long chain sodium carboxylates and sodium dodecylsulfate with lead(II) ions in aqueous solutions, *J. Colloid Interface Sci.* 414 (2014) 66–72.
26. Schelero N., R. Miller, R. von Klitzing, Effects of oppositely charged hydrophobic additives (alkanolates) on the stability of C14TAB foam films, *Colloid Surfaces A* 460 (2014) 156–167.
27. Velikova G., I. Georgiev, M. Veneva, Effect of the precipitation of acid soap and alkanolic acid crystallites on the bulk pH, ESGI'104, Sofia, 2014.

28. Fainerman V.B., R. Miller, E.V. Aksenenko, Thermodynamics of adsorption at liquid interfaces, *Computational Methods for Complex Liquid-Fluid Interfaces* (2015) 3–40.
  29. Forth J., D.J. French, A.V. Gromov, S. King, S. Trimuss, K.M. Lord, M.J. Ridout, P.J. Wilde, P.S. Clegg, Temperature- and pH-dependent shattering: Insoluble fatty ammonium phosphate films at water-oil interfaces, *Langmuir* 31(34) (2015) 9312–9324.
  30. Yu G., S.A. Long, K.A. Karinschak, B.P. Grady, J.H. Harwell, G.B. Arhancet, Synthesis and characterization of novel surfactants based on 2-hydroxy-4-(methylthio)butanoic acid: Anionic surfactants, *Journal of Surfactants and Detergents* 18(5) (2015) 895–903.
  31. Douliez J.-P., B.H. Houssou, A.-L. Fameau, L. Navailles, F. Nallet, A. Grelard, E.J. Dufourc, C. Gailard, Self-assembly of bilayer vesicles made of saturated long chain fatty acids, *Langmuir* 32(2) (2016) 410–410.
  32. Garenne D., L. Navailles, F. Nallet, A. Grelard, E.J. Dufourc, J.P. Douliez, Clouding in fatty acid dispersions for charge-dependent dye extraction, *Journal of Colloid and Interface Science* 468 (2016) 95–102.
  33. Li F., X. Tang, M. Chen, W. Zhang, Effect of polyhydric alcohols, surfactants, emollients and emulsifiers on phase behaviors of ternary fatty acid soap solutions, *Journal of Surfactants and Detergents* 20 (2017) 1–13.
  34. Li F., M. Chen, W. Zhang, Effect of binary/ternary fatty acids ratio and glycerin on the phase behaviors of soap solutions, *Journal of Surfactants and Detergents* 20(2) (2017) 425–434.
  35. Najjar M.H., O.A. Chat, P.A. Bhat, G.M. Rather, A.A. Dar, An investigation of microscopic precipitation and micellization of sodium deoxycholate in presence of Tween 40, *Journal of Molecular Liquids* 229 (2017) 599–608.
  36. Jin J., J. Geng, D. Jing, Insights into the complex interaction between hydrophilic nanoparticles and ionic surfactants at the liquid/air interface, *Physical Chemistry Chemical Physics* 20(22) (2018) 15223–15235.
  37. Farkuh L., P.T. Hennies, C. Nunes, S. Reis, L. Barreiros, M.A. Segundo, F.P. Oseliero, C.L.P. Oliveira, A. Cassago, R.V. Portugal, R.A. Muramoto, G.P.B. Carretero, S. Schreier, H. Chaimovich, I.M. Cuccovia, Characterisation of phospholipid vesicles containing lauric acid: physicochemical basis for process and product development, *Helios* 5(10) (2019) e02648.
  38. Shah R.A., R. Masrat, M.S. Lone, S. Afzal, U. Ashraf, G.M. Rather, A.A. Dar, Solution properties and micellization behaviour of binary mixtures of sodium salts of N-tetradeconyl alanine and N-tetradeconyl phenylalanine surfactants, *Journal of Molecular Liquids* 248 (2019) 569–576.
  39. Wan D., H. Xiang, H. Xu, A laminar-jet-discharging method for measuring the interfacial tension of deformable surfaces, *Measurement Science and Technology* 31(3) (2019) 035302.
  40. Perez L., A. Pinazo, M.C. Moran, R. Pons, Aggregation behavior, antibacterial activity and biocompatibility of cationic assemblies based on amino acid-derived surfactants, *International Journal of Molecular Science* 21 (2020) 8912.
  41. Du H., X. Wang, Lamellar crystalline networks in the gel-like phase of potassium stearate-stearic acid-water, *Colloids and Surfaces A* 629 (2021) 127402.
  42. Infantes-Garcia M.R., S.H.E. Verkenpinck, P.-G. Gonzales-Fuentes, M.E. Hendrickx, T. Grauwet, Lipolysis products formation during in vitro gastric digestion is affected by the emulsion interfacial composition, *Food Hydrocolloids* 110 (2021) 106163.
  43. Kluh D., W. Waldmuller, M. Gaderer, Kolbe electrolysis for the conversion of carboxylic acids to valuable products – A process design study, *Clean Technologies* 3 (2021) 1–19.
  44. He G., H. Li, C. Guo, J. Liao, J. Deng, S. Liu, H. Dong, Stable foam systems for improving oil recovery under high-temperature and high-salt reservoir conditions, *Journal of Petroleum Science and Engineering* 211 (2022) 110145.
  45. Matsuoka K., A. Sato, Y. Ogawa, K. Okazaki, S. Yada, T. Yoshimura, Micelle Formation of Dodecanoic Acid with Alkali Metal Counterion, *Journal of Oleo Science* 72 (2023) 831–837.
- 132 K.D. Danov, I.B. Ivanov, K.P. Ananthapadmanabhan, A. Lips, Disjoining pressure of thin films stabilized by nonionic surfactants, *Adv. Colloid Interface Sci.* 128–130 (2006) 185–215. (брой: 17)**
1. Vanturelli W.H., Estudos da atividade antiespumante de ésteres etílicos derivados de óleos vegetais, MSc Thesis, Faculty of Chemistry, Ribeiro Preto, Brazil, 2008.
  2. Saramago B., Thin liquid wetting films, *Current Opinion in Colloid and Interface Science* 15(5) (2010) 330–340.
  3. Kumar D., S.K. Biswas, Effect of surfactant dispersed in oil on interaction force between an oil film and a steel substrate in water, *Colloid Surfaces A* 377(1–3) (2011) 195–204.
  4. Babchin A.J., L.L. Schramm, Osmotic repulsion force due to adsorbed surfactants, *Colloids and Surfaces B: Biointerfaces* 91(1) (2012) 137–143.
  5. Thiele U., A.J. Archer, M. Plapp, Thermodynamically consistent description of the hydrodynamic of free surfaces covered by insoluble surfactants of high concentration, *Physics of Fluids* 24(10) (2012) 102107.
  6. Ejtemaei M., M. Gharabaghi, M. Irannajad, A review of zinc oxide mineral beneficiation using flotation method, *Advances in Colloid Interface Science* 206 (2014) 66–78.



7. Yang B., X. Ye, C. Li, Effect of the disjoining pressure on spreading of droplet containing surfactant over different topography surfaces, *Journal of North China Electric Power University* 42(3) (2015) 71–77.
  8. Beltramo P.J. J. Vermant, Simple optical imaging of nanoscale features in free-standing film, *ACS Omega* 1(3) (2016) 363–370.
  9. Azadzadeh Shahir A., D. Arabadzieva, H. Petkova, S.I. Karakashev, A.V. Nguyen, E. Mileva, Effect of under-monolayer adsorption on foamability, rheological characteristics, and dynamic behavior of fluid interfaces: Experimental evidence for the Guggenheim extended interface model, *Journal of Physical Chemistry C* 121(21) (2017) 11472–11487.
  10. Joshi K., Behaviour of thin colloidal films and fundamental studies of convective deposition, PhD Thesis, Lehigh University, 2017.
  11. Han Z., H. Xu, W. Fan, R. Zhao, Z. Wang, Comparison of thermodynamic performance and economic efficiency of ORC system for low temperature fuel gas, *Chemical Industry and Engineering Progress* 36(11) (2017) 4010–4016.
  12. Vishal B., P. Ghosh, The effect of silica nanoparticles on the stability of aqueous foams, *Journal of Dispersion Science and Technology* 40 (2019) 206–218.
  13. Joshi K., J.F. Gilchrist, Effect of added surfactant on convective-assembly of monosized microspheres, *Applied Physics Letters* 116 (2020) 083702.
  14. Niken C., The mechanism of misalignment of saw cutting crack concrete pavement, in *Fracture Mechanics Applications*, 2020, p. 504.
  15. Wei P., K. Guo, Y. Xie, Polysaccharide-stabilized oil-laden foam for enhancing oil recovery, *Journal of Petroleum Science and Engineering* 195 (2020) 107597.
  16. Rondepierre G., F. Lequeux, E. Verneuil, N. Passade-Boupat, L. Talini, spinodal stratification in micellar films between oil and silica, *Physical Review E* 103 (2021) 052801.
  17. Vishal B., Foaming and rheological properties of aqueous solutions: An interfacial study, *Reviews in Chemical Engineering* 29 (2023) 271–295.
- 128 K.D. Danov, P.A. Kralchevsky, K.P. Ananthapadmanabhan, A. Lips, Influence of electrolytes on the dynamic surface tension of ionic surfactant solutions: expanding and immobile interfaces, *J. Colloid Interface Sci.* 303 (2006) 56–68. (брой: 12)**
1. Parker, P.M., Editor, *Ionic: Webster's Timeline History*, 2006 – 2007, ICON Group International Inc., San Diego, CA, 2009; p. 8.
  2. Diaz Ramirez C.C., L. Villafuerte Robles, Elements influencing the assessment of the electrolytes effect on the extension of a drop of shampoo, *Revista Mexicana de Ciencias Farmaceuticas* 43(2) (2012) 31–45.
  3. Gabrielli R., G. Loglio, P. Pandolfini, A. Fabbri, M. Simoncini, V.I. Kovalchuk, B.A. Noskov, A.V. Makievski, J. Kragel, R. Miller, F. Ravera, L. Liggieri, Spherical cap-shape emulsion films: thickness evaluation at the nanoscale level by the optical evanescent wave effect, *Colloid Surfaces A* 413 (2012) 101–107.
  4. Kuz'min S.M., S.A. Chulovskaya, V.I. Parfenyuk, Effect of anodic potential on process of formation of polyporphyrin film in solutions of tetrakis(p-aminophenyl)porphyrin in dichloromethane, *Russian Journal of Electrochemistry* 50(5) (2014) 429–437.
  5. Pletnev M.Y., A.A. Semenova, S.Y. Zaitsev, Adsorption characteristics of N'-undecylenamidopropyl-N"-trimethylammonium methyl sulfate at the air-water interface, *Mendeleev Communications* 24(3) (2014) 185–186.
  6. Lauth G.J., J. Kowalczyk, *Einführung in die Physik und Chemie der Grenzflächen und Kolloide*, Springer, 2016.
  7. Ju H., Y. Jiang, T. Geng, Y. Wang, C. Zhang, Equilibrium and dynamic surface tension of quaternary ammonium salts with different hydrocarbon chain length of counterions, *Journal of Molecular Liquids* 225 (2017) 606–612.
  8. Kinoshita K., E. Parra, D. Needham, Adsorption of ionic surfactants at microscopic air-water interfaces using the micropipette interfacial area-expansion method: Measurement of the diffusion coefficient and renormalization of the mean ionic activity for SDS, *Journal of Colloid and Interface Science* 504 (2017) 765–779.
  9. Chai J.L., X.C. Cui, X.Y. Zhang, M.M. Song, J. Wang, J.J. Lu, Adsorption equilibrium and dynamic surface tension of alkyl polyglucosides and their mixed surfactant systems with CTAB and SDS in the surface of aqueous solutions, *Journal of Molecular Liquids* 264 (2018) 442–450.
  10. Dietz A.A., Study of aqueous surfactant systems with focus on interfacial adsorption layers, PhD Thesis, Faculty of Chemistry and Pharmacy, Regensburg University, Germany, 2021.

11. Liu Q., Z. Chen, Z. Chen, Y. Yang, L. Chi, Rheology, bubble-particle interaction and air bubble system: A study of the influence of inorganic salts on air entrainment by bubble rising measurement, *Cement and Concrete Research* 173 (2023) 107265.
12. Dudec M., A.O.J. Olsen, G. Oye, The influence of divalent cations on the dynamic surface tension of sodium dodecylbenzenesulfonate solutions, *Colloids and Surfaces A* 675 (2023) 132007.
- 127 N.C. Christov, K.D. Danov, P.A. Kralchevsky, K.P. Ananthapadmanabhan, A. Lips, Maximum bubble pressure method: universal surface age and transport mechanism in surfactant solutions, *Langmuir* 22 (2006) 7528–7542. (брой: 73)**
  1. Chytil M., J. Krouska, P. Kulilova, M. Pekar, Maximum bubble pressure and the de Nouy platinum ring method of surface tension measurements of sodium dodecyl sulfate and sodium hyaluronate, *Chem. Listy* 102 (2008) s1139–s1141.
  2. Kulilova P., Dynamic tensiometry of biocolloids, PhD Thesis, Brno University, 2008.
  3. Li D., D. Shi, G. Gao, J. Dong, L. Wang, An improved method for measuring surface tension of liquid metals and alloys, *Kovove Materialy* 46(4) (2008) 239–242.
  4. Ivanov I.B., K.G. Marinova, V. Vulchev, D.T. Dimitrova, Method and device for fast creation of fluid interfaces and use of this device for determination of liquid–liquid and liquid–gas interfacial properties, Patent EP2072996 (A2), 2009.
  5. Roche M., M. Aytouna, D. Bonn, H. Kellay, Effect of surface tension variations on the pinch–Off behavior of small fluid drops in the presence of surfactants, *Phys. Rev. Letters* 103(26) (2009) art. 264501.
  6. Parker, P.M., Editor, Aging: Webster's Timeline History, 2006 (A–L), ICON Group International, Inc., San Diego, CA, 2009; p. 84.
  7. Tagashira H., Y. Takata, A. Hyono, H. Ohshima, Adsorption of surfactant ions and binding of their counterions at an air/water interface, *J. Oleo Sci.* 58(6) (2009) 285–293.
  8. Терезян А.М., Ш.А.Макарян, Dynamic surface tension measurements fo dibutylsulfoxide aqueous solutions, *Ученые записки Ереванского государственного университета: Химия и Биология*, 219(2) (2009) 10–14.
  9. Chevallier E., A. Mamane, H.A. Stone, C. Tribet, F. Lequeux, C. Monteux, Pumping-out photo-surfactants from an air/water interface using light, *Soft Matter* 7(17) (2011) 7866–7874.
  10. Ivanova D.S., Z. Angarska, S.I. Karakashev, E.D. Manev, Drainage of foam films stabilized by n-dodecyl- $\beta$ -D-maltoside or dodecyl trimethylammonium bromide and their mixtures, *Colloid and Surfaces A* 382(1–3) (2011) 93–101.
  11. Lim J., D. Han, Synthesis of dialkylamidoamine oxide surfactant and characterization of its dual function of detergency and softness, *Colloid and Surfaces A* 398(1–3) (2011) 166–174.
  12. Martin J.D., J.N. Marhefka, K.B. Migler, S.D. Hudson, Interfacial rheology through microfluidics, *Advanced Materials* 23(3) (2011) 426–432.
  13. Pressure assisted ozonation of persistent organic contaminated sediments, *Environmental Engineering, Airiti Library* 1 (2011) 1–91.
  14. Ritacco H., D. Langevin, H. Diamant, D. Andelman, Dynamic surface tension of aqueous solutions of ionic surfactants: role of electrostatics, *Langmuir* 27(3) (2011) 1009–1014.
  15. Stanimirova R., K. Marinova, S. Tcholakova, N.D. Denkov, S. Stoyanov, E. Pelan, Surface rheology of saponin adsorption layers, *Langmuir* 27(20) (2011) 12486–12498.
  16. Chevallier E., Cascade d'effets induits par la lumière aux interfaces liquides: du photo-surfactant à la mousse, PhD Thesis, Material chemistry, Université Pierre et Marie Curie - Paris VI, 20, 2012.
  17. De Saint Vincent M.R., J. Petit, M. Aytouna, J.P. Delville, D. Bonn, H. Kellay, Dynamic interfacial tension effects in the rupture of liquid necks, *Journal of Fluid Mechanics* 692 (2012) 499–510.
  18. Giusti F., J.-L. Popot, C. Tribet, Well-defined critical association concentration and rapid adsorption at the air/water interface of a short amphiphilic polymer, amphotol A8-35: a study by forster resonance energy transfer and dynamic surface tension measurements, *Langmuir* 28(28) (2012) 10372–10380.
  19. Glawdel T., C.L. Ren, Droplet formation in microfluidic T-junction generators operating in the transitional regime. III. Dynamic surface effect, *Physical Review E* 86(2) (2012) Art. 026308.
  20. Glawdel T., Droplet production and transport in microfluidic networks with pressure driven flow control, PhD Thesis, University of Waterloo, 2012.
  21. Jouyban A., A. Fathi-Azarbayjani, Experimental and computational methods pertaining to surface tension of pharmaceuticals, in: *Toxicity and Drug Testing*, W. Acree (ed.), InTech, 2012, Ch. 3.
  22. Shi Y., G. Shan, Dynamic surface tension of surfactant-free emulsion polymerization system of styrene and methyl methacrylate in aqueous solution of poly(ethylene glycol), *Huagong Xuebao/CIESC Journal* 63(7) (2012) 2170–2175.
  23. Theiner E.R., High throughput evaluation of the influence of inorganic salt solutions on nonionic, PhD Thesis, Lehigh University, 2012.

24. Ampatzidis C.D., Varka E.-M.A., Karapantsios T.D., Adsorption behavior of non-conventional eco-friendly tyrosine glycerol ether surfactants, *Colloid Surfaces* 438 (2013) 104–111.
25. Chevallier E., A. Saint-Jalmes, I. Cantat, F. Lequeux, C. Monteux, Light induced flows opposing drainage in foams and thin-films using photosurfactants, *Soft Matter* 9(29) (2013) 7054–7060.
26. Chevallier E., Cascade d'effets induits par la lumière aux interfaces liquides, PhD Thesis, Pierre and Marie Curie University, 2013.
27. Petkova R., Tcholakova S., N.D. Denkov, Role of polymer-surfactant interactions in foams: Effects of pH and surfactant head group for cationic polyvinylamine and anionic surfactant, *Colloid Surfaces A* 438 (2013) 174–185.
28. Shi Y.-M., G.-R. Shan, Effect of poly(ethylene glycol) molecular weight on the stability of surfactant-free emulsion polymerization system consisting of styrene and methyl methacrylate, *Journal of Chemical Engineering of Chinese Universities*, 27(2) (2013) 272–276.
29. Ampatzidis C.D., Varka E.-M.A., Karapantsios T.D., Dynamic surface properties of eco-friendly phenylalanine glycerol ether surfactants at the W/A interfaces, *Colloid Surfaces* 441 (2014) 872–879.
30. Pletnev M.Y., A.A. Semenova, S.Y. Zaitsev, Adsorption characteristics of N'-undecylenamidopropyl-N"-trimethylammonium methyl sulfate at the air-water interface, *Mendeleev Communications* 24(3) (2014) 185–186.
31. Viswanathan U.M., Study of antimicrobial, biochemical and nanotechnological aspects of novel sulphur, selenium and tellurium compounds, PhD Thesis, Universität Saarlandes, Germany, 2014.
32. Brun G., Formulation de capsules à cœur aqueux pour la délivrance stimulable de protéines, PhD Thesis, Université Pierre et Marie Curie, Paris, 2015.
33. Schellart N.M.C., M. Rozloznik, C. Balestra, Relationships between plasma lipids, proteins, surface tension and post-dive bubbles, *UHM* 42 (2015) 133–141.
34. Hristov J., A unified nonlinear fractional equation of the diffusion-controlled surfactant adsorption: Reappraisal and new solution of the Ward-Tordai problem, *Journal of King Saud University – Science* 28(1) (2016) 7–13.
35. Zaitsev S., Dynamic surface tension measurements as general approach to the analysis of animal blood plasma and serum, *Advances in Colloid and Interface Science* 235 (2016) 201–213.
36. Casandra A., M.-C. Chung, B.A. Noskov, S.-Y. Lin, Adsorption kinetics of sodium dodecyl sulfate at perturbed air-water interface, *Colloids and Surfaces A* 518 (2017) 241–248.
37. Fereidooni Moghadam F., S. Azizian, S. Wettig, Effect of spacer length on the interfacial behavior of N,N'-bis(dimethylalkyl)- $\alpha,\omega$ -alkanediammonium dibromide gemini surfactants in the absence and presence of ZnO nanoparticles, *Journal of Colloid and Interface Science* 486 (2017) 204–210.
38. Kinoshita K., E. Parra, D. Needham, Adsorption of ionic surfactants at microscopic air-water interfaces using the micropipette interfacial area-expansion method: Measurement of the diffusion coefficient and renormalization of the mean ionic activity for SDS, *Journal of Colloid and Interface Science* 504 (2017) 765–779.
39. Kinoshita K., E. Parra, D. Needham, New sensitive micro-measurements of dynamic surface tension and diffusion coefficients: Validated and tested for the adsorption of 1-Octanol at a microscopic air-water interface and its dissolution into water, *Journal of Colloid and Interface Science* 488 (2017) 166–179.
40. Stubenrauch C., M. Hamann, N. Preisig, V. Chauhan, R. Bordes, On how hydrogen bonds affect foam stability, *Advances in Colloid and Interface Science* 247 (2017) 435–443.
41. Wang Y., Y. Zhu, C. Zhang, J. Li, Z. Guan, Transparent, superhydrophobic surface with varied surface tension responsiveness in wettability based on tunable porous silica structure for gauging liquid surface tension, *ACS Applied Materials and Interfaces* 9(4) (2017) 4142–4150.
42. Ranieri D., N. Preisig, C. Stubenrauch, On the influence of intersurfactant H-bonds on foam stability: A study with technical grade surfactants, *Tenside Surfactants Detergents* 55(1) (2018) 6–16.
43. Tian C., J. Feng, H.J. Cho, S.S. Datta, R.K. Prud'homme, Adsorption and denaturation of structured polymeric nanoparticles at an interface, *Nano Letters* 18(8) (2018) 4854–4860.
44. Gan N.N.G.M.A., N.A.M. Taib, G. Krishnan, K.A. Dasuki, A review of surface tension measurements by optical method for medical application, *Malaysian Journal of Science, Health and Technology* 4 (2019) 2601–0003.
45. Needham D., K. Kinoshita, A. Utoft, Micro-surface and -interfacial tensions measured using the micropipette technique: Applications in ultrasound-microbubbles, oil-recovery, lung-surfactants, nanoprecipitation, and microfluidics, *Micromachines* 10 (2019) 105.
46. Soboleva O.A., P.V. Protsenko, Korolev V.V., Gutman J.S., Tsarkova L.A., Aroma molecules as dynamic volatile surfactants: Functionality beyond the scent, *ACS Applied Materials and Interfaces* 11 (2019) 40988–40995.

47. Woods E., C.A. Konys, S.R. Rossi, Photoemission of iodide from aqueous aerosol particle surfaces, *Journal of Physical Chemistry A* 123 (2019) 2901-2907.
48. An S., P. Ranaweera, L. Luo, Harnessing bubble behaviors for developing new analytical strategies, *Analyst* 145 (2020) 7782–7795.
49. Baldygin A., J.S. Marin Quintero, T. Willers, P.R. Waghmare, Rapid prototyping in the application to the dynamic surface tension measurements, *International Journal of Wettability Science and Technology* 1 (2020) 171–188.
50. Clarke C., F. Spyropoulos, I.T. Norton, A flow velocity dependence of dynamic surface tension in Plateau borders of foam, *Journal of Colloid and Interface Science* 573 (2020) 348–359.
51. Petkova B., S. Tcholakova, M. Chenkova, K. Golemanov, D. Throley, S. Stoyanov, Foamability of aqueous solutions: Role of surfactant type and concentration, *Advances in Colloid and Interface Science* 276 (2020) 102084.
52. Qazi M.J., S.J. Schlegel, E.H.G. Backus, D. Bonn, N. Shahidzadeh, Dynamic surface tension of surfactants in the presence of high salt concentrations, *Langmuir* 36 (2020) 7956–7964.
53. Simon S., J. Ruwoldt, J. Sjoblom, A critical update of experimental techniques of bulk and interfacial components for fluid characterization with relevance to well fluid processing and transport, *Advances in Colloid and Interface Science* 277 (2020) 102120.
54. Zhao Y., B. Jeong, D.-H. Kang, S. Dai, Impacts of motile *Escherichia coli* on air-water surface tension, *E3S Web of Conferences* 205 (2020) 08003.
55. De Soete F., L. Delance, N. Passade-Boupat, M. Levant, E. Verneuil, F. Lequeux, L. Talini, Passage of surfactant-laden and particle-laden drops through a contraction, *Physical Review Fluids* 6 (2021) 093601.
56. Kumar G., A. Kakati, E. Mani, J.S. Sangwai, Stability of nanoparticle stabilized oil-in-water Pickering emulsion under high pressure and high temperature conditions: Comparison with surfactant stabilized oil-in-water emulsions, *Journal of Dispersion Science and Technology* 42 (2021) 1204–1217.
57. Liao Y.-F., M.-H. Zhou, Y. Zhang, Y.-Y. Peng, Y.-X. Jian, F. Lu, Q.-X. Tong, Facile synthesis and marked pH-responsive behavior of novel foaming agents based on amide- and ester-linked morpholine fluorosurfactants, *Journal of Molecular Liquids* 137 (2021) 116577.
58. Ochoa C., C. Xu, C.D.V. Martinez Narvaez, W. Yang, Y. Zhang, V. Sharma, Drainage via stratification and nanoscopic thickness transitions of aqueous sodium naphthenate foam films, *Soft Matter* 17 (2021) 8915–8924.
59. Wang D., Z. Hu, G. Peng, Y. Yin, Surface energy of curved surface based on Lennard-Jones potential, *Nanomaterials* 11 (2021) 686.
60. Ishida S., M. Iga, S. Mitani, K. Sakai, Measurement of mechanical properties of liquid by observing droplet oscillation on substrates, *Japanese Journal of Applied Physics* 61 (2022) SG1064.
61. Joy M.T.R., M.A. Rub, M.A.A. Hossain, P.K. Biswas, Y.G. Alghamdi, A.M. Asiri, M.R. Amin, S.C. Mohanta, M.A. Hoque, S.E. Kabir, Study of the aggregation, interaction, and thermodynamic properties of the dodecyltrimethylammonium bromide & cefixime trihydrate mixture in sodium salts solution at numerous temperatures, *Molecular Physics* 120 (2022) e2091052.
62. Mitrinova Z., M. Chenkova, N. Denkov, S. Tcholakova, Cosurfactants for controlling the surface properties of diluted solutions: Interplay with bulk rheology of concentrated solutions, *Colloids and Surfaces A* 648 (2022) 129221.
63. Sha J.-Q., Y.-Q. Yi, J.-Y. Jang, J.-L. Fan, Measuring surface tension coefficient of liquid by “phase standing wave” method, *Acta Physica Sinica* 71 (2022) 226801.
64. Wahdat H., C. Zhang, N. Chan, A.J. Crosby, Pressurized interfacial failure of soft adhesives, *Soft Matter* 18 (2022) 755–761.
65. Zore A., P. Geng, M.R. Van De Mark, Equilibrium and dynamic surface tension behavior in colloidal unimolecular polymers (CUP), *Polymers* 14 (2022) 2302.
66. Angelesleva M., R. Salmimies, G. Rideal, A. Hakkinen, Assessment of the pore diameter measured in gas-liquid displacement porosimetry: Effect of the capillary constant, *Journal of Porous Media* 26 (2023) 31–49.
67. Buckley T., T. Vuong, K. Karanam, P.H.N. Vo, P. Shukla, M. Firouzi, V. Rudolph, Using foam fractionation to estimate PFAS air-water interface adsorption behaviour at ng/L and µg/L concentrations, *Water Research* 239 (2023) 120028.
68. Hossain K.Z., S.A. Kamran, A. Tavakoli, M.R. Khan, Machine learning (ML)-assisted surface tension and oscillation-induced elastic modulus studies of oxide-coated liquid metal (LM) alloys, *JPhys Materials* 6 (2023) 045009.
69. Georgiev V., Z. Mitrinova, N. Genchev, A. Gers-Barlag, G. Jaunky, N. Denkov, Surface and foam properties of polyvinyl alcohol solutions, *Colloids and Surfaces A* 681 (2024) 132828.
70. Ishida S., S. Mitani, K. Sakai, Experimental and theoretical research on oscillation behavior of droplets on horizontally oscillating substrates, *Japanese Journal of Applied Physics* 63 (2024) 03SP02.



71. Zhao Y., B. Zhang, C. Lv, Manipulation of liquid transport and droplet switch using light-actuated surface tension, *Colloids and Surfaces A* 687 (2024) 133473.
  72. Al Zahabi K., L. Hassan, R. Maldonado, M.W. Boehm, S.K. Baier, V. Sharma, Pinching dynamics, extensional rheology, and stringiness of saliva substitutes, *Soft Matter* 20 (2024) 2547–2561.
  73. Lucie D., S. Tcholakova, Role of temperature and urea for surface and foam properties of nonionic surfactants with dodecyl alkyl chain, *Colloids and Surfaces A* 691 (2024) 133844.
- 126 K.D. Danov, P.A. Kralchevsky, K.P. Ananthapadmanabhan, A. Lips, Interpretation of surface–tension isotherms of *n*–alkanoic (fatty) acids by means of the van der Waals model, *J. Colloid Interface Sci.* 300 (2006) 809–813. (брой: 28)**
1. Burden D.K., A.M. Johnson, G.M. Nathanson, HCl Uptake through Films of Pentanoic Acid and Pentanoic Acid/Hexanol Mixtures at the Surface of Sulfuric Acid, *J. Phys. Chem. A* 113 (2009) 14131–14140.
  2. Johnson C.M., E. Tyrode, A. Kumpulainen, C. Leigraf, Vibrational sum frequency spectroscopy study of the liquid/vapor interface of formic acid/water solutions, *Journal of Physical Chemistry C* 113(30) (2009) 13209–13218.
  3. Rodrigues–Abreu C., E. Rodriguez, C. Solans, Monomeric and dimeric anionic surfactants: A comparative study of self–aggregation and mineralization, *J. Colloid Interface Sci.* 340 (2009) 254–260.
  4. Jarek E., T. Jasinski, W. Barzyk, P. Warszynski, The pH regulated surface activity of alkanolic acids, *Colloid Surfaces A* 354(1–3) (2010) 188–196.
  5. Stanimirova R., K. Marinova, S. Tcholakova, N.D. Denkov, S. Stoyanov, E. Pelan, Surface rheology of saponin adsorption layers, *Langmuir* 27(20) (2011) 12486–12498.
  6. Slavchov R., S.I. Karakashev, I.B. Ivanov, Ionic surfactants and ion-species effects: adsorption; micellization; thin liquid films, in: *Surfactant Science and Technology: Retrospects and Prospects*, Taylor and Frances, 2012.
  7. Lee L., J. Salimon, M.A. Yarmo, R. Syafri, M. Hisam, Effect of structure on surfactant properties, *J. Dispersion Science and Technology* 34(7) (2013) 914–922.
  8. Slavchov R.I., I.M. Dimitrova, I.B. Ivanov, Cohesive and non-cohesive adsorption of surfactants at liquid interfaces, *Understanding Complex Systems* (2013) 199–225.
  9. Kuz'min S.M., S.A. Chulovskaya, V.I. Parfenyuk, Effect of anodic potential on process of formation of polyporphyrin film in solutions of tetrakis(*p*-aminophenyl)porphyrin in dichloromethane, *Russian Journal of Electrochemistry* 50(5) (2014) 429–437.
  10. Ruehl C.L., K.R. Wilson, Surface organic monolayers control the hygroscopic growth of submicrometer particles at high relative humidity, *Journal of Physical Chemistry A* 118(22) (2014) 3952–3966.
  11. Pan A., A.K. Rakshit, S.P. Moulik, Dwelling on the adsorption of surfactant at the air/water interface in relation to its states in the bulk: A comprehensive analysis, *Colloid Surfaces A* 464 (2014) 8–16.
  12. Ikari K., Y. Sakuma, T. Jimbo, A. Kodama, M. Imai, P.-A. Monnard, S. Rasmussen, Dynamics of fatty acid vesicles in response to pH stimuli, *Soft Matter* 11(31) (2015) 6327–6334.
  13. Cochran R.E., T. Jayarathne, E.A. Stone, V.H. Grassian, Selectivity across the interface: a test of surface activity in the composition of organic-enriched aerosols from bubble bursting, *Journal of Physical Chemistry Letters* 7(9) (2016) 1692–1696.
  14. Ikizler B., G. Arslan, E. Kipcak, C. Dirik, D. Celenk, T. Aktuglu, S.S. Helvacı, S. Peker, Surface adsorption and spontaneous aggregation of rhamnolipid mixtures in aqueous solutions, *Colloids and Surfaces A* 519 (2017) 125–136.
  15. Muhamad R., M. Misran, Adsorption kinetics of partially ionized fatty acids at oil/water interface of their monomeric and liposomal solutions, *Colloids and Surfaces A* 528 (2017) 23–29.
  16. Slavchov R., I.B. Ivanov, Adsorption parameters and phase behaviour of non-ionic surfactants at liquid interfaces, *Soft Matter* 13(46) (2017) 8829–8848.
  17. Wellen B.A., E.A. Lach, H.C. Allen, Surface pK<sub>a</sub> of octanoic, nonanoic, and decanoic fatty acids at the air–water interface: applications to atmospheric aerosol chemistry, *Physical Chemistry Chemical Physics* 19(39) (2017) 26551–26558.
  18. Peng M., A.V. Nguyen, J. Wang, R. Miller, A critical review of the model fitting quality and parameter stability of equilibrium adsorption models, *Advances in Colloid and Interface Science* 262 (2018) 50–68.
  19. Rudd B., Fundamental surface properties of simple fatty acid model systems of sea spray aerosols and the sea surface monolayer, PhD Thesis, Ohio State University, 2018.
  20. Slavchov R., I.B. Ivanov, Effective osmotic cohesion due to the solvent molecules in a delocalized adsorbed monolayer, *Journal of Colloid and Interface Science* 532 (2018) 746–757.
  21. Luo M., N.A. Wauer, K.J. Angle, A.C. Dommer, M. Song, C.M. Nowak, R.E. Amaro, V.H. Grassian, Insights into the behavior of nonanoic acid and its conjugate base at the air/water interface through a combined experimental and theoretical approach, *Chemical Science* 11 (2020) 10647–10656.

22. Peng M., A.V. Nguyen, Adsorption of ionic surfactants at the air/water interface: The gap between theory and experiment, *Advances in Colloid and Interface Science* 275 (2020) 102052.
  23. Peng M., T.T. Duignan, X.S. Zhao, A.V. Nguyen, Surface potential explained: A surfactant adsorption model incorporating realistic layer thickness, *Journal of Physical Chemistry B* 124 (2020) 3195–3205.
  24. Yoon S.G., B.J. Park, H. Jin, W.H. Lee, J. Han, Y.H. Cho, H. Yoon, J.W. Han, Y.S. Kim, Probing an interfacial ionic pairing-induced molecular dipole effect in ionovoltaic system, *Small Methods* 5 (2021) 2100323.
  25. Chantadee T., S. Senarat, C. Chinpaisal, J. Mahadlek, Measurement of surface tension/contact angle of saturated fatty solution for developing in situ forming drug delivery systems, *Key Engineering Materials* 914KEM (2022) 69–74.
  26. Kartashynska E.S., D. Vollhardt, Molecular area dependences of monolayers at the air/water interface, *JCIS Open* 7 (2022) 100057.
  27. Numadate N., S. Saito, Y. Nojima, T.A. Ishibashi, S. Enami, T. Hama, Direct observation and quantitative measurement of OH radical desorption during the ultraviolet photolysis of liquid nonanoic acid, *Journal of Physical Chemistry Letters* 13 (2022) 8290–8297.
  28. Song Y., J. Li, N.T. Tsona, L. Liu, L. Du, Enrichment of short-chain organic acids transferred to submicron sea spray aerosols, *Science of the Total Environment* 851 (2022) 158122.
- 125 K.D. Danov, P.A. Kralchevsky, K.P. Ananthapadmanabhan, A. Lips, Micellar surfactant solutions: dynamics of adsorption at fluid interfaces subjected to stationary expansion, *Colloids Surfaces A* 282–283 (2006) 143–161. (брой: 6)**
1. Song Q., A. Couzis, P. Somasundaran, C. Maldarelli, A transport model for the adsorption of surfactant from micelle solutions onto a clean air/water interface in the limit of rapid aggregate disassembly relative to diffusion and supporting dynamic tension experiments, *Colloids Surfaces A* 282–283 (2006) 162–182.
  2. Miller R., B.A. Noskov, V.B. Fainerman, J.T. Petkov, Impact of micellar kinetics on dynamic interfacial properties of surfactant solutions, *Highlights in Colloid Science* (2008) 247–259.
  3. Bhole N.S., F. Huang, C. Maldarelli, Fluorescence visualization and modeling of a micelle-free zone formed at the interface between an oil and an aqueous micellar phase during interfacial surfactant transport, *Langmuir* 26(20) (2010) 15761–15778.
  4. Song Q., M. Yuan, Visualization of an adsorption model for surfactant transport from micelle solutions to a clean air/water interface using fluorescence microscopy, *J. Colloid Interface Sci.* 357 (2011) 179–188.
  5. Adami N., Surface tension and buoyancy in vertical soap films, PhD Thesis, Faculty of Sciences, Physics Department, University of Liege, 2013.
  6. Lee L., J. Salimon, M.A. Yarmo, R. Syafri, M. Hisam, Effect of structure on surfactant properties, *J. Dispersion Science and Technology* 34(7) (2013) 914–922.
- 124 K.D. Danov, P.A. Kralchevsky, Electric forces induced by a charged colloid particle attached to the water–nonpolar fluid interface, *J. Colloid Interface Sci.* 298 (2006) 213–231. (брой: 46)**
1. Pitkonen M., Polarizability of the dielectric double-sphere, *J. Math. Physics* 47(10) (2006) 102901.
  2. Dominquez A., M. Oettel, S. Dietrich, Theory of capillary-induced interactions beyond the superposition approximation, *J. Chem. Phys.* 127(20) (2007) 204706.
  3. Colloidal particles at liquid interfaces, *PCCP* 9 (2007) 6298–6299.
  4. Frydel D., S. Dietrich, M. Oettel, Charge renormalization for effective interactions of colloids at water interfaces, *Phys. Rev. Lett.* 99(11) (2007) 118302.
  5. Pitkonen M., An explicit solution for the electric potential of the asymmetric dielectric double sphere, *J. Physics D: Applied Physics* 40(5) (2007) 1483–1488.
  6. Aubry N., P. Singh, Electrostatic forces on particles floating within the interface between two immiscible fluids, *ASME International Mechanical Engineering Congress and Exposition, Proceedings*, 8 B (2008) 1969–1976.
  7. Aubry N., P. Singh, Physics underlying controlled self-assembly of micro- and nanoparticles at a two-fluid interface using an electric field, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 77(5) (2008) 056302.
  8. Dominquez A., M. Oettel, S. Dietrich, Force balance of particles trapped at fluid interfaces, *Journal of Chemical Physics* 128 (11) (2008) 114904.
  9. Dominquez A., M. Oettel, S. Dietrich, Multipole expansion of the electrostatic interaction between charged colloids at interfaces, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 77 (2) (2008) 020401.
  10. Oettel M., S. Dietrich, Colloidal interactions at fluid interfaces, *Langmuir* 24(4) (2008) 1425–1441.

11. Park B.J., J.P. Patina, E.M. Furst, M. Oettel, S. Reynaert, J. Vermant, Direct measurements of the effects of salt and surfactant on interaction forces between colloidal particles at water–oil interfaces, *Langmuir* 24 (5) (2008) 1686–1694.
12. Steinchen A., From dispersed nano–objects to solutions – A thermodynamic approach, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 323(1–3) (2008) 163–166.
13. Ao Z., Z. Yang, J. Wang, G. Zhang, T. Nqai, Emulsion–templated liquid core – Polymer shell microcapsule formation, *Langmuir* 25(5) (2009) 2572–2574.
14. Ma H., L.L. Dai, Structure of multi–component colloidal lattices at oil water interface, *Langmuir* 25(19) (2009) 11210–11215.
15. Dominguez A., Capillary forces between colloidal particles at fluid interfaces, in: *Structure and Functional properties of Colloidal Systems*, 2010, Ch. 2.
16. Ma H., L.L. Dai, Structure of multi–component colloidal lattices at oil–water interfaces, 2010 AIChE Annual Meeting, 10AIChE; Salt Lake City, UT; 7 November 2010 through 12 November 2010; Code 83459.
17. Pitkonen M., Exact solution for some spherical electrostatic scattering problems, PhD Thesis, Faculty of Electronics, Aalto University, Finland, 2010.
18. Aubry N.N., Pushpendra S., S. Nuburupati, M.M. Janjua, Apparatuses and methods for control and self-assembly of particles into adaptable monolayers, US Patent and Trademark Office Granted Patent, november 2011.
19. Ma H., L.L. Dai, Particle self–assembly in ionic liquid–in–water pickering emulsions, *Langmuir* 27(2) (2011) 508–512.
20. Jung J., T.G. Pedersen, Polarizability of supported metal nanoparticles: Mehler-Fock approach, *Journal of Applied Physics* 112(6) (2012) 064312.
21. Sang W., V.L. Morales, W. Zhang, C.R. Stoof, B. Gao, A.L. Schatz, Y. Zhang, T.S. Steenhuis, Quantification of colloid retention and release by straining and energy minima in variably saturated porous media, *Environmental Science and Technology* 47(15) (2013) 8256–8264.
22. Liemert A., Explicit solution for the electrostatic potential of the conducting double sphere, *Journal of Applied Physics* 115(16) (2014) 164907.
23. Maestro A., Guzman E., Ortega F., Rubio R.G., Contact angle of micro- and nanoparticles at fluid interfaces, *Current Opinion in Colloid and Interface Science* 19(4) (2014) 355–367.
24. Tsabet E., De la particule au procede: modelisation de la production d’emulsions de pickering, PhD Thesis, Montreal University, 2014.
25. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, *Langmuir* 31(49) (2015) 13290–13302.
26. Bossa G.V., J. Roth, K. Bohinc, S. May, The apparent charge of nanoparticles trapped at a water interface, *Soft Matter* 12(18) (2016) 4229–4240.
27. Bossa G.V., K. Bohinc, M.A. Brown, S. May, Dipole moment of a charged particle trapped at the air-water interface, *Journal of Physical Chemistry B* 120(26) (2016) 6278–6285.
28. Esquena J., Low-density solid foams prepared by simple methods using highly concentrated emulsions as templates, *Colloid and Interface Chemistry for Nanotechnology* 2016 199–218.
29. Lishchuk S.V., Dilatational viscosity of dilute particle-laden fluid interface at different contact angles, *Physical Review E* 94(6) (2016) 063111.
30. Joung Y.S., R.B. Ramirez, E. Bailey, R. Adenekan, C.R. Buie, Conductive hydrogel films produced by freestanding electrophoretic deposition and polymerization at the interface of immiscible liquids, *Composites Science and Technology* 153 (2017) 128–135.
31. Lotito V., T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
32. Dietrich K., G. Volpe, M.N. Sulaiman, D. Rengli, I. Buttinoni, L. Isa, Active atoms and interstitials in two-dimensional colloid crystals, *Physical Review Letters* 120(26) (2018) 268004.
33. Eigenbrod M., F. Bihler, S. Hardt, Electrokinetics of a particle attached to a fluid interface: Electrophoretic mobility and interfacial deformation, *Physical Review Fluids* 3 (2018) 103701.
34. Hu Y., P. Vlahovska, M.J. Miksis, Dielectric spherical particle on an interface in an applied electric field, *SIAM Journal of Applied Mathematics* 70(3) (2019) 850–875.
35. Forth J., P.Y. Kim, G. Xie, X. Liu, B.A. Helms, T.P. Russell, Building reconfigurable devices using complex liquid-fluid interfaces, *Advances Materials* 31 (2019) 1806370.
36. Avazpour R., M. Latifi, J. Chaouki, L. Fradette, An environmentally friendly route for beneficiation of rare earth-bearing minerals by Pickering emulsification: adjusting the interfacial and formulation parameters, *Green Chemistry* 22 (2020) 5771–5784.
37. Dietrich K., Artificial microswimmers at liquid-liquid interfaces, PhD Thesis, ETH, Zurich, 2020.

38. Eigenbrod M., The influence of boundary configuration on the dissipation and stability in fluids at low Reynolds numbers, PhD Thesis, Darmstad Technocal University, 2020.
  39. Hardt S., J. Hartmann, S. Zhao, A. Bandopadhyay, Electric field-induced pattern formation in layers of DNA molecules at the interface between two immiscible liquids, *Physical Review Letters* 124 (2020) 064501.
  40. Buttinoni I., R.P.A. Dullens, Mechanical properties of colloidal crystals at fluid interfaces, *J. Phys. Materials* 4 (2021) 025001.
  41. Das S., J. Koplik, P. Somasundaran, C. Maldarelli, Pairwise hydrodynamic interactions of spherical colloids at a gas-liquid interface, *Journal of Fluid Mechanics* 915 (2021) A99.
  42. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
  43. Dani A., Y. Mohsen, C. Maldareli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
  44. Leal-Dehghani N., G.F. Cristopher, Effects of interfacial shear on particle aggregation at an oil/water interface, *Langmuir* 38 (2022) 9621–9630.
  45. Prizaznuk J.M., P. Huang, X. Yong, P.R. Chiarot, Probing Colloidal Assembly on Non-Axisymmetric Droplet Surfaces via Electrospray, *Langmuir* 39 (2023) 469–477.
  46. Van Baalen C., J. Vialetto, L. Isa, Tuning electrostatic interactions of colloidal particles at oil-water interfaces with organic salts, *Physical Review Letters* 131 (2023) 128202.
- 123 K.D. Danov, P.A. Kralchevsky, M.P. Boneva, Shape of the capillary meniscus around an electrically charged particle at a fluid interface: comparison of theory and experiment, *Langmuir* 22 (2006) 2653–2667. (брой: 32)**
1. Loudet J.C., A.G. Yodh, B. Pouligny, Wetting and contact lines of micrometer-sized ellipsoids, *Phys. Rev. Lett.* 97(1) (2006) 018304.
  2. Würger A., Curvature-induced capillary interaction of spherical particles at a liquid interface, *Phys. Rev. E* 74(4) (2006) 041402.
  3. Dominquez A., M. Oettel, S. Dietrich, Theory of capillary-induced interactions beyond the superposition approximation, *J. Chem. Phys.* 127(20) (2007) 204706.
  4. Ray M.A., L. Jia, Micropatterning by non-densely packed interfacial colloidal crystals, *Advanced Materials* 19(15) (2007) 2020–2022.
  5. Dominquez A., M. Oettel, S. Dietrich, Force balance of particles trapped at fluid interfaces, *Journal of Chemical Physics* 128(11) (2008) 114904.
  6. Oettel M., S. Dietrich, Colloidal interactions at fluid interfaces, *Langmuir* 24(4) (2008) 1425–1441.
  7. Oettel M., A. Dominquez, M. Tasinkevych, S. Dietrich, Effective interactions of colloids on nematic films, *European Physical Journal E* 28(2) (2009) 99–111.
  8. Ray M.A., N. Shewmon, S. Bhawalkar, L. Jia, Y. Yang, E.S. Daniels, Submicrometer surface patterning using interfacial colloidal particle self-assembly, *Langmuir* 25(13) (2009) 7265–7270.
  9. Domingues, A., Structure and Functional Properties of Colloidal Systems, Hidalgo-Alvarez, R. (Ed.), CRC Press, Boca Raton, FL, 2010; p. 55.
  10. Lenhart S., C.A. Mirkin, H. Fuchs, In situ lipid dip-pen nanolithography under water, *Scanning* 32(1) (2010) 15–23.
  11. Gharby M.A., Comportement de colloïdes pièges aux interfaces de nématiques, PhD Thesis, University Montpellier II, 2011.
  12. Loudet J.C., B. Pouligny, How do mosquito eggs self-assemble on the water surface? *European Physical Journal E* 34(8) (2011) Art. No. 76.
  13. Yang S., Y. Lei, Recent progress on surface pattern fabrications based on monolayer colloidal crystal templates and related applications, *Nanoscale* 3(7) (2011) 2768–2782.
  14. Brileya K.A., Ecophysiology of *methanococcus maripaludis* and *desulfovibrio*: The role of structure in relation to function, PhD Thesis, Montana State University, 2013.
  15. Inui N., K. Goto, Thermal fluctuation of a metal disk levitated by the Casimir force above a liquid-liquid interface, *Journal Physical Society Japan* 84 (2015) 044007.
  16. Wang D., R. Hu, M.J. Skaug, D.K. Schwartz, Temporally anticorrelated motion of nanoparticles at a liquid interface, *J. Physical Chemistry Letters* 6(1) (2015) 54–59.
  17. Esquena J., Low-density solid foams prepared by simple methods using highly concentrated emulsions as templates, *Colloid and Interface Chemistry for Nanotechnology* 2016 199–218.
  18. Ridel L., M.-A. Bolzinger, N. Gilon-Delepine, P.-Y. Dugas, Y. Chevalier, Pickering emulsions stabilized by charged nanoparticles, *Soft Matter* 12(36) (2016) 7564–7576.



19. Luo A.M., Rheology and thermodynamics of particle-stabilized fluid interfaces, PhD Thesis, Eth Zurich, 2017.
  20. Eigenbrod M., F. Bihler, S. Hardt, Electrokinetics of a particle attached to a fluid interface: Electrophoretic mobility and interfacial deformation, *Physical Review Fluids* 3 (2018) 103701.
  21. Gabovich A.M., A.I. Voitenko, Electrostatic interaction near the interface between dielectric media taking into account the nonlocality of the Coulomb field screening, *Journal of Molecular Liquids* 267 (2018) 166–176.
  22. Lokanathan M., E. Wikramanayake, V. Bahadur, R. Bonnecaze, Dielectrophoretic control of a droplet at the interface of two liquids in a three liquid systems, *ASME Proceedings (IMECE)* 7 (2018) 144113.
  23. Wu L., X. Wang, G. Wang, G. Chen, In situ X-ray scattering observation of two-dimensional interfacial colloidal crystallization, *Nature Communications* 9(1) (2018) 1335.
  24. Elsami F., J.A.W. Elliott, Gibbsian thermodynamic study of capillary meniscus depth, *Scientific Reports* 9 (2019) 657.
  25. Huang X., H. Dong, Z. Liu, Y.-P. Zhao, Probing micro-Newton forces on solid/liquid/gas interfaces using transmission phase shift, *Langmuir* (2019).
  26. Luo A.M., J. Vermant, P. Ilg, Z. Zhang, L.M.C. Sagis, Self-assembly of colloidal particles at fluid-fluid interfaces with and empirical pair potential, *Journal of Colloid and Interface Science* 534 (2019) 205–214.
  27. Zhu X., D. Wang, V.S.J. Craig, Interaction of particles with surfactant thin films: Implications for dust suppression, *Langmuir* 35(24) (2019) 7641–7649.
  28. Eigenbrod M., The influence of boundary configuration on the dissipation and stability in fluids at low Reynolds numbers, PhD Thesis, Darmstadt Technological University, 2020.
  29. Li Y., L. Wang, J. Li, S. Yang, C. Chen, C. Li, X. Li, In-situ observation on the agglomeration and dispersion of particles at the interface of high-temperature melts, *ISIJ International* 61 (2021) 753–762.
  30. Wang L., S. Yang, J. Li, C. Li, X. Li, Study of the capillary interactions between particles on the surface of high-temperature melts, *Steel Research International* 92 (2021) 2100013.
  31. Dani A., Y. Mohsen, C. Maldarelli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
  32. Trevenen S., P.J. Beltrano, Mirau interferometry of fluid interfaces deformed by colloids under the influence of external fields, *Review of Scientific Instruments* 93 (2022) 073701.
- 122 K.D. Danov, P.A. Kralchevsky, N.D. Denkov, K.P. Ananthapadmanabhan, A. Lips, Mass transport in micellar surfactant solutions. 2. Theoretical modeling of adsorption at a quiescent interface, *Adv. Colloid Interface Sci.* 119 (2006) 17–33. (брой: 28)**
1. Delgado C., D. Lopez-Diaz, M.D. Merchán, M.M. Velázquez, Effect of micelles on the dynamic surface tension of zwitterionic surfactants, *Tenside, Surfactants, Detergents* 43(4) (2006) 192–196.
  2. Fainerman V.B., V.D. Mys, A.V. Makievski, J.T. Petkov, R. Miller, Dynamic surface tension of micellar solutions in the millisecond and submillisecond time range, *J. Colloid Interface Sci.* 302(1) (2006) 40–46.
  3. Song Q., A. Couzis, P. Somasundaran, C. Maldarelli, A transport model for the adsorption of surfactant from micelle solutions onto a clean air/water interface in the limit of rapid aggregate disassembly relative to diffusion and supporting dynamic tension experiments, *Colloids Surfaces A* 282–283 (2006) 162–182.
  4. Fainerman V.B., J.T. Petkov, R. Miller, Surface dilational viscoelasticity of C<sub>14</sub>EO<sub>8</sub> micellar solution studied by bubble profile analysis tensiometry, *Langmuir* 24 (2008) 6447–6452.
  5. Vassilieff C.S., B.N. Nickolova, E.D. Manev, Thinning of foam films of micellar surfactant solutions. Nonionic surfactants C<sub>10</sub>H<sub>21</sub>(OC<sub>2</sub>H<sub>4</sub>)<sub>8</sub>OH and C<sub>12</sub>H<sub>25</sub>(OC<sub>2</sub>H<sub>4</sub>)<sub>8</sub>OH, *Colloid Polym. Sci.* 286 (2008) 475–480.
  6. Fainerman V.B., A.V. Mys, E.V. Aksenenko, A.V. Makievski, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of Triton surfactants. 4. Dynamic surface tension and dilational viscoelasticity of micellar solution, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 334(1–3) (2009) 22–27.
  7. Miller R., B.A. Noskov, V.B. Fainerman, J.T. Petkov, In: *Highlights in Colloid Science*, D. Platikanov and D. Exerowa (Eds.), Wiley, New York, 2009; 247–259.
  8. Bhole N.S., F. Huang, C. Maldarelli, Fluorescence visualization and modeling of a micelle-free zone formed at the interface between an oil and an aqueous micellar phase during interfacial surfactant transport, *Langmuir* 26(20) (2010) 15761–15778.
  9. Fainerman V.B., E.V. Aksenenko, A.V. Mys, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of mixed SDS/C<sub>n</sub>EO<sub>m</sub> solutions. 3. Dynamics of adsorption and surface dilational rheology of micellar solutions, *Langmuir* 26(4) (2010) 2424–2429.

10. Fainerman V.B., S.V. Lylyk, E.V. Aksenenko, J.T. Petkov, J. Yorke, R. Miller, Surface tension isotherms, adsorption dynamics and dilational visco-elasticity of sodium dodecyl sulphate solutions, *Colloid Surfaces A* 354(1–3) (2010) 8–15.
  11. Merchan M.D., M.M. Velazquez, Properties of CHAPS micelles modulated by different polyelectrolytes, *Colloids Surfaces A* 366(1–3) (2010) 12–17.
  12. Miller R., J.K. Ferri, A. Javadi, J. Kragel, N. Mucic, R. Wustneck, Rheology of interfacial layers, *Colloid and Polymer Science* 288(9) (2010) 937–950.
  13. Miller, R., Fainerman, V. B., Kovalchuk, V. I., Liggieri, L., Loglio, G., Noskov, B. A., et al. (2010). Surface dilatational rheology. In P. Somasundaran, & A. Hubbard (Eds.), *Encyclopedia of Surface and Colloid Science* (pp. 1-18). New York: Taylor & Francis.
  14. Fainerman V.B., R. Miller, Maximum bubble pressure tensiometry: theory, analysis of experimental constraints and applications, *Bubble and Drop Interfaces, Progress in Colloid and Interface Science*, Vol.2, 2011, 75–118.
  15. Gregson C.M., Y. Rong, M. Sillick, A. Parker, Measurement of Dynamic Interfacial Tension in a Carbohydrate Melt at High Temperature Using a Drop Volume Tensiometer, *Food Biophysics* 6(1) (2011) 94–105.
  16. Maia F.C.B., Estudo da interação interfacial entre polímeros semicondutores e metais ou surfactantes, PhD Thesis, Instituto de Física, Sao Carlos, 2011.
  17. Song Q., M. Yuan, Visualization of an adsorption model for surfactant transport from micelle solutions to a clean air/water interface using fluorescence microscopy, *J. Colloid Interface Sci.* 357 (2011) 179–188.
  18. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Influence of solubilized dodecane on the dynamic surface tension and dilational rheology of micellar Triton-X45 and SDS solutions, *Colloid Surfaces A* 413 (2012) 125–129.
  19. Gabrieli R., G. Loglio, P. Pandolfini, A. Fabbri, M. Simoncini, V.I. Kovalchuk, B.A. Noskov, A.V. Makievski, J. Kragel, R. Miller, F. Ravera, L. Liggieri, Spherical cap-shaped emulsion films: Thickness evaluation at the nanoscale level by optical evanescent wave effect, *Colloids and Surfaces A* 413 (2012) 101–107.
  20. Theiner E.R., High throughput evaluation of the influence of inorganic salt solutions on noionic, PhD Thesis, Lehigh University, 2012.
  21. Ampatzidis C.D., E.-M.A. Varka, T.D. Karapantsios, Adsorption behavior of non-conventional eco-friendly tyrosine glycerol ether surfactants, *Colloid Surfaces* 438 (2013) 104–111.
  22. He Y., Study of the interfacial properties of surfactants and their interaction with DNA, PhD Thesis, Université Paris-Sud, 2013.
  23. Ampatzidis C.D., E.-M.A. Varka, T.D. Karapantsios, Dynamic surface properties of eco-friendly phenylalanine glycerol ether surfactants at the W/A interfaces, *Colloid Surfaces* 441 (2014) 872–879.
  24. Lapucha J., Liquid content predictors for aqueous foams, PhD Thesis, Tulane University, 2018.
  25. Chen Y., C.S. Dutcher, Size dependent droplet interfacial tension and surfactant transport in liquid-liquid systems, with applications in shipboard oily bilgewater emulsions, *Soft Matter* 16 (2020) 2994–3004.
  26. Liu F., V. Pauchard, S. Banerjee, Modeling the multicomponent compositional effects of asphaltenes on interfacial phenomena, *Energy and Fuels* 34 (2020) 13673–13685.
  27. Mysona J.A., A.V. McCormic, D.C. Morse, Nonlinear dynamics in micellar surfactant solutions: II. Diffusion, *Physical Review E* 105 (2022) 034603.
  28. Mysona J.A., A.V. McCormic, D.C. Morse, Nonlinear dynamics in micellar surfactant solutions: I. Kinetics, *Physical Review E* 105 (2022) 034602.
- 121 K.D. Danov, P.A. Kralchevsky, N.D. Denkov, K.P. Ananthapadmanabhan, A. Lips, Mass transport in micellar surfactant solutions. 1. Relaxation of micelle concentration, aggregation number and polydispersity, *Adv. Colloid Interface Sci.* 119 (2006) 1–16. (брой: 39)**
1. Delgado C., D. Lopez-Díaz, M.D. Merchan, M.M. Velazquez, Effect of micelles on the dynamic surface tension of zwitterionic surfactants, *Tenside, Surfactants, Detergents* 43(4) (2006) 192–196.
  2. Fainerman V.B., V.D. Mys, A.V. Makievski, J.T. Petkov, R. Miller, Dynamic surface tension of micellar solutions in the millisecond and submillisecond time range, *J. Colloid Interface Sci.* 302(1) (2006) 40–46.
  3. Song Q., A. Couzis, P. Somasundaran, C. Maldarelli, A transport model for the adsorption of surfactant from micelle solutions onto a clean air/water interface in the limit of rapid aggregate disassembly relative to diffusion and supporting dynamic tension experiments, *Colloids Surfaces A* 282–283 (2006) 162–182.
  4. Fainerman V.B., J.T. Petkov, R. Miller, Surface dilatational viscoelasticity of C<sub>14</sub>EO<sub>8</sub> micellar solution studied by bubble profile analysis tensiometry, *Langmuir* 24 (2008) 6447–6452.
  5. Haller, J., Ultraschallabsorptionsspektroskopie zur Untersuchung schneller molekularer Prozesse in Alkylglykosit-Loesungen, PhD Thesis, Goettingen University, 2008.

6. Vassilieff C.S., B.N. Nickolova, E.D. Manev, Thinning of foam films of micellar surfactant solutions. Nonionic surfactants  $C_{10}H_{21}(OC_2H_4)_8OH$  and  $C_{12}H_{25}(OC_2H_4)_8OH$ , *Colloid Polym. Sci.* 286 (2008) 475–480.
7. Fainerman V.B., A.V. Mys, E.V. Aksenenko, A.V. Makievski, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of Triton surfactants. 4. Dynamic surface tension and dilational visco–elasticity of micellar solution, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 334(1–3) (2009) 22–27.
8. Miller R., B.A. Noskov, V.B. Fainerman, J.T. Petkov, Impact of micellar kinetics on dynamic interfacial properties of surfactant solutions, in: *Highlights in Colloid Science*, D. Platikanov and D. Exerowa (Eds.), Wiley, New York, 2009, Ch. 13.
9. Bhole N.S., F. Huang, C. Maldarelli, Fluorescence visualization and modeling of a micelle–free zone formed at the interface between an oil and an aqueous micellar phase during interfacial surfactant transport, *Langmuir* 26(20) (2010) 15761–15778.
10. Dopierala K., K. Prochaska, Dynamics of adsorption in micellar and non micellar solutions of derivatives of lysosomotropic substances, *Adv. Colloid Interface Sci.* 156(1–2) (2010) 62–69.
11. Fainerman V.B., E.V. Aksenenko, A.V. Mys, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of mixed SDS/ $C_nEO_m$ , solutions. 3. Dynamics of adsorption and surface dilational rheology of micellar solutions, *Langmuir* 26(4) (2010) 2424–2429.
12. Fainerman V.B., S.V. Lylyk, E.V. Aksenenko, J.T. Petkov, J. Yorke, R. Miller, Surface tension isotherms, adsorption dynamics and dilational visco–elasticity of sodium dodecyl sulphate solutions, *Colloid Surfaces A* 354(1–3) (2010) 8–15.
13. Merchan M.D., M.M. Velazquez, Properties of CHAPS micelles modulated by different polyelectrolytes, *Colloids Surfaces A* 366(1–3) (2010) 12–17.
14. Fainerman V.B., R. Miller, Maximum bubble pressure tensiometry: theory, analysis of experimental constraints and applications, *Bubble and Drop Interfaces, Progress in Colloid and Interface Science*, Vol.2, 2011, 75–118.
15. Song Q., M. Yuan, Visualization of an adsorption model for surfactant transport from micelle solutions to a clean air/water interface using fluorescence microscopy, *J. Colloid Interface Sci.* 357 (2011) 179–188.
16. Gabrielli R., G. Loglio, P. Pandolfini, A. Fabbri, M. Simoncini, V.I. Kovalchuk, B.A. Noskov, A.V. Makievski, J. Kragel, R. Miller, F. Ravera, L. Liggieri, Spherical cap-shape emulsion films: thickness evaluation at the nanoscale level by the optical evanescent wave effect, *Colloid Surfaces A* 413 (2012) 101–107.
17. Heinzelmann G., W. Figueiredo, M. Girardi, Micellar dynamics and water–water hydrogen-bonding from temperature-jump Monte-Carlo simulations, *Chemical Physics Letters* 550 (2012) 83–87.
18. Hoskins C., P.K.T. Lin, L. Tetley, W.P. Cheng, Novel fluorescent amphiphilic poly(allylamine) and their supramacromolecular self-assemblies in aqueous media, *Polymers for Advanced Technologies* 23(3) (2012) 710–719.
19. Theiner E.R., High throughput evaluation of the influence of inorganic salt solutions on nonionic, PhD Thesis, Lehigh University, 2012.
20. Wang W., S. Hao, K. Li, J. Gong, Prediction of the interfacial rheological properties of the oil–water emulsion droplets, paper.edu.cn, 2012.
21. Zeng Y., Y. Zeng, Structuring of nonionic surfactant micelles, in: *Colloidal Dispersions Under Slit-Pore confinement*, Springer, 2012, 99–111.
22. Ampatzidis C.D., E.-M.A. Varka, T.D. Karapantsios, Adsorption behavior of non-conventional eco-friendly tyrosine glycerol ether surfactants, *Colloid Surfaces* 438 (2013) 104–111.
23. He Y., Study of the interfacial properties of surfactants and their interaction with DNA, PhD Thesis, Universite Paris-Sud, 2013.
24. Javadi A., N. Mucic, M. Karbaschi, J.Y. Won, M. Lolfi, A. Dan, V. Ulaganathan, G. Gochev, A.V. Makievski, V.I. Kovalchuk, N.M. Kovalchuk, J. Kragel, R. Miller, Characterization methods for liquid interfacial layers, *European Physical Journal: Special Topics* 222(1) (2013) 7–29.
25. Wang W., K. Li, S. Hao, J. Gong, Interfacial rheological properties of oil/water droplet with dynamic adsorption models, *CIESC Journal* 64(8) (2013) 2947–2955.
26. Ampatzidis C.D., E.-M.A. Varka, T.D. Karapantsios, Dynamic surface properties of eco-friendly phenylalanine glycerol ether surfactants at the W/A interfaces, *Colloid Surfaces* 441 (2014) 872–879.
27. Babintsev I.A., L.T. Adzhemyan, A.K. Shchekin, Multi-scale times and modes of fast and slow relaxation in solutions with coexisting spherical and cylindrical micelles according to the difference Becker–Döring kinetic equations, *J. Chem. Phys.* 141(6) (2014) 064901.
28. Heinzelmann G., P. Seide, W. Figueiredo, Dynamics of micelle formation from temperature-jump Monte-Carlo simulations, *Physical Review E* 92(5) (2015) 052305.

29. Mushtag M., I.M. Tan, U. Rashid, M. Sagir, M. Mumtaz, Effect of pH on the static adsorption of foaming surfactants on Malaysian sandstone, *Arabian Journal of Geosciences* 8(10) (2015) 8539–8548.
  30. Yuan F., S. Wang, R.G. Larson, Potentials of Mean Force and Escape Times of Surfactants from Micelles and Hydrophobic Surfaces Using Molecular Dynamics Simulations, *Langmuir* 31(4) (2015) 1336–1343.
  31. Владимирова И.Ю., Матричная полимеризация ионных мономеров на мицелах противоположно заряженных ПАВ: синтез, структура и свойства продуктов, Диссертация доктора химических наук, Волгоградский Государственный Технический Университет, Волгоград 2016.
  32. Shchekin A.K., L.T. Adzhemyan, I.A. Babinsev, N.A. Volkov, Kinetics of aggregation and relaxation in micellar surfactant solutions, *Colloid Journal* 80(2) (2018) 107–140.
  33. Kumar N., A. Mandal, Wettability alteration of sandstone rock by surfactant stabilized nanoemulsion for enhanced oil recovery—A mechanistic study, *Colloids and Surfaces A* 601 (2020) 125043.
  34. Petkova B., S. Tcholakova, M. Chenkova, K. Golemanov, D. Throley, S. Stoyanov, Foamability of aqueous solutions: Role of surfactant type and concentration, *Advances in Colloid and Interface Science* 276 (2020) 102084.
  35. Sagir M., M. Mushtag, M.S. Tahir, M.B. Tahir, A.R. Shaik, Challenges of chemical EOR, *Surfactants for Enhanced Oil Recovery Applications*, Springer (2020) 117–129.
  36. Mysona J.A., A.V. McCormic, D.C. Morse, Nonlinear dynamics in micellar surfactant solutions: II. Diffusion, *Physical Review E* 105 (2022) 034603.
  37. Mysona J.A., A.V. McCormic, D.C. Morse, Nonlinear dynamics in micellar surfactant solutions: I. Kinetics, *Physical Review E* 105 (2022) 034602.
  38. Yang Y., Y. Liu, Y. Jiang, Recent Advances in Perfluorocarbon-Based Delivery Systems for Cancer Theranostics, *Molecular Pharmaceutics* 20 (2023) 3254–3277.
  39. Сираев Р.Р., Д.А. Браун, Возбуждение релаксационных колебаний на искривленной межфазной границе в условиях внутренней задачи, *Вычислительная механика сплошных сред* 17 (2024) 87–97.
- 120 K.D. Danov, P.A. Kralchevsky, Reply to comment on electrodrifting force acting on solid particles at a fluid interface, *Langmuir* 22 (2006) 848–849. (брой: 22)**
1. Ngai T., H. Auweter, S.H. Behrens, Environmental responsiveness of microgel particles and particle-stabilized emulsions, *Macromolecules* 39(23) (2006) 8171–8177.
  2. Reynaert S., P. Moldenaers, J. Vermant, Control over colloidal aggregation in monolayers of latex particles at the oil–water interface, *Langmuir* 22(11) (2006) 4936–4945.
  3. Colloidal particles at fluid interfaces, *PCCP* 9 (2007) 6298–6299.
  4. Dominquez A., M. Oettel, S. Dietrich, Theory of capillary-induced interactions beyond the superposition approximation, *J. Chem. Phys.* 127(20) (2007) 204706.
  5. Wu S., A. Nikolov, D. Wasan, Role of collective interactions in self-assembly of charged particles at liquid interfaces, *Can. J. Chem. Eng.* 85(5) (2007) 562–569.
  6. Bohley C., R. Stannarius, Inclusions in free standing smectic liquid crystal films, *Soft Matter* 4(4) (2008) 683–702.
  7. Dominquez A., M. Oettel, S. Dietrich, Force balance of particles trapped at fluid interfaces, *Journal of Chemical Physics* 128 (11) (2008) 114904.
  8. Fan D., P.J. Thomas, P. O'Brien, Pyramidal lead sulfide crystallites with high energy {111} facets, *J. of the American Chemical Society* 130(33) (2008) 10892–10894.
  9. Lehle H., M. Oettel, Stability and interactions of nanocolloids at fluid interfaces: Effects of capillary waves and line tensions, *Journal of Physics: Condensed Matter* 20(40) (2008) 404224.
  10. Lewandowski E.P., J.A. Bernate, P.C. Searson, K.J. Stebe, Rotation and alignment of anisotropic particles on nonplanar interfaces, *Langmuir* 24(17) (2008) 9302–9307.
  11. Oettel M., S. Dietrich, Colloidal interactions at fluid interfaces, *Langmuir* 24 (4) (2008) 1425–1441.
  12. Oettel M., A. Dominquez, M. Tassinkevich, S. Dietrich, Effective interactions of colloids on nematic films, *European Physical Journal E* 28(2) (2009) 99–111.
  13. Dominquez A., Capillary forces between colloidal particles at fluid interfaces, in: *Structure and Functional Properties of Colloidal Systems*, CRC Press, 2010, Ch. 2.
  14. Xu H., J. Kirkwood, M. Lask, G. Fuller, Charge interaction between particle-laden fluid interfaces, *Langmuir* 26(5) (2010) 3160–3164.
  15. Ma H., L.L. Dai, Particle self-assembly in ionic liquid-in-water Pickering emulsions, *Langmuir* 27(2) (2011) 508–512.
  16. Thomas P.J., D. Fan, P. O'Brien, Interfacial synthesis of pyramidal lead sulfide crystallites with high energy {311} facets, *J. Colloid Interface Sci.* 354(1) (2011) 210–218.
  17. Zeng C., Capillary interactions among microparticles and nanoparticles at fluid interfaces, PhD Thesis, University of Massachusetts, 2011.



18. Thomas P.J., E. Mbufu, P. O'Brien, Thin films of metals, metal chalcogenides and oxides deposited at the water-oil interface using molecular precursors, *Chemical Communications* 49(2) (2013) 118–127.
19. Al Chaghouri, M.A. Malik, P.J. Thomas, P. O'Brien, Assembly of submicron sized Ag, Co and Ni particles into thin films at liquid/liquid interfaces, *Journal of Nanoscience and Nanotechnology* 16(5) (2016) 5420–5425.
20. Eigenbrod M., F. Bihler, S. Hardt, Electrokinetics of a particle attached to a fluid interface: Electrophoretic mobility and interfacial deformation, *Physical Review Fluids* 3 (2018) 103701.
21. Eigenbrod M., The influence of boundary configuration on the dissipation and stability in fluids at low Reynolds numbers, PhD Thesis, Darmstadt Technocal University, 2020.
22. Barakat J.M., T.M. Squires, Capillary force on an 'inert' colloid: A physical analogy to dielectrophoresis, *Soft Matter* 17 (2021) 3417–3442.

**119 K.D. Danov, P.A. Kralchevsky, K.P. Ananthapadmanabhan, A. Lips, Particle–interface interaction across a nonpolar medium in relation to the production of particle–stabilized emulsions, *Langmuir* 22 (2006) 106–115. (брой: 56)**

1. Blonski S., P.M. Korczyk, T.A. Kowalewski, Analysis of turbulence in a micro-channel emulsifier, *International Journal of Thermal Sciences* 46(11) (2007) 1126–1141.
2. He Y., T. Li, X. Yu, S. Zhao, J. Lu, J. He, Tuning the wettability of calcite cubes by varying the sizes of the polystyrene nanoparticles attached to their surfaces, *Applied Surface Scie.* 253(12) (2007) 5320–5324.
3. Leunissen M.E., A. van Blaaderen, A.D. Hollingsworth, M.T. Sullivan, P.M. Chaikin, Electrostatics at the oil–water interface, stability, and order in emulsions and colloids, *Proceedings of the National Academy of Sciences of the United States of America* 104(8) (2007) 2585–2590.
4. Leunissen M.E., Manipulating Colloids with Charges and Electric Fields, Ph.D. Thesis, Utrecht University, The Netherlands, 2007.
5. Lunissen M.E., J. Zwanikken, R. van Roij, P.M. Chaikin, A. van Blaaderen, Ion partitioning at the oil–water interface as a source of tunable electrostatic effects in emulsions with colloids, *Phys. Chem. Chem. Phys.* 9(48) (2007) 6405–6414.
6. Slowicka A., Z.A. Walenta, Creating thin layers at the contact surface of two nonmixing liquids, *Bulletin Polish Acad. Sci.* 55(2) (2007) 173–178.
7. Zwanikken J., R. van Roij, Charged Colloidal Particles and Small Mobile Ions near the Oil–Water Interface: Destruction of Colloidal Double Layer and Ionic Charge Separation, *Phys. Rev. Lett.* 99 (2007) 178301.
8. Zhao Y., Self-assembled lipid tubules: structures, mechanical properties, and applications, PhD Thesis, College of Engineering and Computer Science, University of Central Florida, 2007.
9. Lin I.-H., J.M. Koenig Jr., J.J. de Pablo, N.L. Abbott, Ordering of solid microparticles at liquid crystal/water interfaces, *Journal of Physical Chemistry B* 112(51) (2008) 16552–16558.
10. Slowicka A., Badanie metoda dynamiki molekularnej powstawania wybranych nanostruktur w emulsjach, PhD Thesis, Instytut Podstawowych Problemow Techniki PAN, 2008.
11. Steinchen A., From dispersed nano-objects to solutions – A thermodynamic approach, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 323(1–3) (2008) 163–166.
12. Tao X., J. Mingshang, X. Zhaoxiong, H. Rongbin, Z. Lansun, Tensions at liquid interfaces: A general filter for the separation of micro-/nanoparticles, *Langmuir* 24 (2008) 2281–2283.
13. Tsuji S., H. Kawaguchi, Thermosensitive Pickering emulsions stabilized by Poly(N-isopropylacrylamide)-carrying particles, *Langmuir* 24 (2008) 3300–3305.
14. Xu T., M. Jin, Z. Xie, Z. Jiang, Q. Kuang, H. Wu., R. Huang, L. Zheng, Tension of liquid interfaces: A general filter for the separation of micro-/nanoparticles, *Langmuir* 24(6) (2008) 2281–2283.
15. Barbadini F., A Fundamental Study of Particle-Substrate Interactions in Liquids of Low Polarity, PhD thesis, KU Leuven, Belgium, 2009.
16. Fortuna S., C.A.L. Colard, A. Troisi, S.A.F. Bon, Packing patterns of silica nanoparticles on surfaces of armored polystyrene latex particles, *Langmuir* 25(21) (2009) 12399–12403.
17. Parker, P.M., Editor, Interaction: Webster's Timeline History, 2006 (A–M), ICON Group International, Inc., San Diego, CA, 2009; p. 78.
18. Wu, Chin-Yuan, Particle Dynamics and Microrheology at Liquid–Liquid Interface, PhD Thesis, Texas Tech University, Lubbock, TX, USA, 2009.
19. Zwanikken J.W., Looking deeper into emulsions and suspensions ionic screening, fractionation, and adsorption, PhD Thesis, Utrecht University, 2009.
20. Constantino M.A., Ions em interfaces dieletricas de fluidos imisciveis: efeitos do tamanho ionico e curvatura interfacial, PhD Thesis, Universidade Estadual de Campinas, Brasil, 2010.

21. Tamashiro M.N., M.A. Constantino, Ions at the Water–Vapor Interface, *Journal of Physical Chemistry B* 114(10) (2010) 3583–3591.
22. Kwek J.W., I.U. Wakarelski, W.K. Ng, J.Y.Y. Heng, R.B.H. Tan, Novel parallel plate condenser for single particle electrostatic force measurements in atomic force microscope, *Colloids and Surfaces A* 385 (1–3) (2011) 206–212.
23. Abras D., G. Pranami, N.L. Abbott, The mobilities of micro- and nano-particles at interfaces of nematic liquid crystals, *Soft Matter* 8(6) (2012) 2026–2035.
24. Botto L., E.P. Lewandowski, M. Cavalarro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
25. Calzolari D.C.E., D. Pontoni, M. Deutsch. H. Reichert, J. Daillant, Nanoscale structure of surfactant-induced nanoparticle monolayers at the oil-water interface, *Soft Matter* 8(45) (2012) 11478–11483.
26. Garbin V., J.C. Crocker, K.J. Stebe, Nanoparticles at fluid interfaces: exploiting capping ligands to control adsorption, stability and dynamics, *Journal of Colloid and Interface Sci.* 387(1) (2012) 1–11.
27. Matope S., An application of Van der Waals's forces in micro-material handling, PhD Thesis, Faculty of Engineering, University of Stellenbosh, 2012.
28. Wang H., V. Singh, S.H. Behrens, Image charge effects on the formation of pickering emulsions, *Journal of Physical Chemistry Letters* 3(20) (2012) 2986–2990.
29. Wang A., D.M. Kaz, R. McGorty, V.N. Manoharan, Relaxation dynamics of colloidal particles at liquid interfaces, *AIP Conference Proceedings* 1518 (2013) 336–343.
30. Nallamilli T., E. Mani, M.G. Basavaraj, A model for the prediction of droplet size in pickering emulsions stabilized by oppositely charged particles, *Langmuir* 30(31) (2014) 9336–9345.
31. Buchcic C., R.H. Tromp, M.B.J. Meinders, M.A. Cohen Stuart, Assembly of jammed colloidal shells onto micron-sized bubbles by ultrasound, *Soft Matter* 11(7) (2015) 1326–1334.
32. Boglaenko D., B. Tansel, Gravity induced densification of floating crude oil by granular materials: Effect of particle size and surface morphology, *Science of the Total Environment* 556 (2016) 146–153.
33. Esquena J., Low-density solid foams prepared by simple methods using highly concentrated emulsions as templates, *Colloid and Interface Chemistry for Nanotechnology* (2016) 199–218.
34. Everts J.C., Colloidal dispersions of repulsive nanoparticles: tunable effective interactions, phase behavior and anisotropy, PhD Thesis, Utrech University, 2016.
35. Everts J.C., S. Samin, R. Van Roij, Tuning colloid-interface interactions by salt partitioning, *Physical Review Letters* 117(9) (2016) 098002.
36. Hu Y.-Q., S.-W. Yin, J.-H. Zhu, J.-R. Qi, J. Guo, L.-Y. Wu, C.-H. Tang, X.-Q. Yang, Fabrication and characterization of novel Pickering emulsions and Pickering high internal emulsions stabilized by gliadin colloidal particles, *Food Hydrocolloids* 61 (2016) 300–310.
37. Ridel L., M.-A. Bolzinger, N. Gilon-Delepine, P.-Y. Dugas, Y. Chevalier, Pickering emulsions stabilized by charged nanoparticles, *Soft Matter* 12(36) (2016) 7564–7576.
38. Schmuck M., S. Kalliadasis, General framework for adsorption processes on dynamic interfaces, *Journal of Physics A* 49(12) (2016) 155502.
39. Wang L.-J., S.-W. Yin, L.-Y. Wu, J.-R. Qi, J. Guo, X.-Q. Yang, Fabrication and characterization of Pickering emulsions and oil gels stabilized by highly charged zein/chitosan complex particles, *Food Chemistry* 213 (2016) 462–469.
40. Boglaenko D., B. Tansel, Preferential positioning and phase exposure of granular particles at hydrophobic liquid-water interface, *Journal of Cleaner Production* 142 (2017) 2629–2636.
41. Amoanu D., Voltage-tunable 2D and 3D structures of gold nanoparticles at a water/1,2-dichloroethane interface, PhD Thesis, University of Illinois of Chicago, 2018.
42. Facal Marina P., J. Xu, X. Wu, H. Xu, Thinking outside the box: Placing hydrophilic particles in an oil phase for the formation and stabilization of Pickering emulsions, *Chemical Science* 9(21) (2018) 4821–4829.
43. Zhang J., Y. Song, D. Li, Electrokinetic motion of the polystyrene particle at a liquid-liquid interface, *Journal of Colloid and Interface Science* 509 (2018) 432–439.
44. Huang F., Y. Liang, Y. He, On the Pickering emulsions stabilized by calcium carbonate particles with various morphology, *Colloids and Surfaces A* 580 (2019) 123722.
45. Sofla S.J.D., L.A. James, Y. Zhang, Understanding the behavior of H<sup>+</sup>-protected silica nanoparticles at the oil-water interface for enhanced oil recovery (EOR) applications, *Journal of Molecular Liquids* 274 (2019) 98–114.
46. Wang A., J.W. Zvanikken, D.M. Kaz, R. McGorty, A.M. Goldfain, W.B. Rogers, V.N. Manoharan, Before the breach: Interactions between colloidal particles and liquid interfaces at nanoscale separations, *Physical Review E* 100 (2019) 042605.

47. Taheri A., M. Kashaninejad, A.M. Tamaddon, S.M. Jafari, Comparison of binary cress seed mucilage (CSM)/ $\beta$ -lactoglobulin (BLG) and ternary CSG-BLG-Ca (calcium) complexes as emulsifiers: Interfacial behavior and freeze-thawing stability, *Carbohydrate Polymers* 266 (2021) 118148.
48. Zhao Y., Y. Lu, D. Wang, Tracking of nanoparticle diffusion at a liquid-liquid interface adsorbed by nonionic surfactants, *Langmuir* 37 (2021) 12118–12127.
49. Heidari F., S.M. Jafari, A.M. Ziaifar, N. Anton, Preparation of Pickering emulsions stabilized by modified silica nanoparticles via the Taguchi approach, *Pharmaceutics* 14 (2022) 1561.
50. Keane R.K., W. Hong, W. He, S. Teale, R. Bancroft, A.D. Dinsmore, Adsorption of hydrophilic silica nanoparticles at oil-water interfaces with reversible emulsion stabilization by ion partitioning, *Langmuir* 38 (2022) 2821–2831.
51. Su Y., C. Lu, C. Chang, J. Li, Y. Sun, W. Zhang, L. Gong, L. Gu, Y. Yang, Preparation and characterization of  $W_1/O/W_2$  emulsions stabilized by glycated and heat-modified egg white proteins, *Journal of the Science of Food and Agriculture* 102 (2022) 5795–5807.
52. Vialleto J., M. Zanini, L. Isa, Attachment and detachment of particles to and from fluid interfaces, *Current Opinion in Colloid and Interface Science* 58 (2022) 101560.
53. Wang Z., M.J. Miksis, P.M. Vlahovska, Particle-surface interactions in a uniform electric field, *Physical Review E* 106 (2022) 034607.
54. Borowko M., T. Staszewski, Nybrid nanoparticles at fluid-fluid interfaces: Insight from theory and simulation, *International Journal of Molecular Sciences* 24 (2023) 4564.
55. Heidari F., S.M. Jafari, A.M. Ziaifar, N. Anton, Surface modification of silica nanoparticles by chitosan for stabilization of water-in-oil Pickering emulsions, *Carbohydrate Polymer Technologies and Applications* 6 (2023) 100381.
56. Wang Z., M.J. Miksis, P.M. Vlahovska, Electrostatic force on a spherical particle confined between two planar surfaces, *Soft Matter* 19 (2023) 7663–7672.

**118 I.B. Ivanov, K.D. Danov, K.P. Ananthapadmanabhan, A. Lips, Interfacial rheology of adsorbed layers with surface reaction: on the origin of the dilatational surface viscosity, *Adv. Colloid Interface Sci.* 114–115 (2005) 61–92. (брой: 112)**

1. Ravera F., M. Ferrari, E. Santini, L. Liggieri, Influence of surface processes on the dilational visco-elasticity of surfactant solutions, *Adv. Colloid Interface Sci.* 117(1–3) (2005) 75–100.
2. Aksenenko E.V., V.I. Kovalchuk, V.B. Fainerman, R. Miller, Surface dilational rheology of mixed adsorption layers at liquid interfaces, *Adv. Colloid Interface Sci.* 122(1–3) (2006) 57–66.
3. Andersen A., J. Oertegren, P. Koelsch, D. Wantke, H. Motschmann, Oscillating bubble SHG on surface elastic and surface viscoelastic systems: new insights in the dynamics of adsorption layers, *J. Phys. Chem. B* 110(37) (2006) 18466–18472.
4. Hannisdal A., Particle-Stabilized Emulsions and Heavy Crude Oils. Characterization, Stability Mechanism, and Interfacial Properties, PhD Thesis, Norwegian University of Science and Technology (NTNU), N-7491 Trondheim, Norway, 2006.
5. Kralchevsky P.A., N.D. Denkov, Ivan B. Ivanov: remarkable figure in colloid science, *Colloids Surfaces A* 282–283 (2006) 1–7.
6. Ravera F., M. Ferrari, L. Liggieri, Modelling of dilational visco-elasticity of adsorbed layers with multiple kinetic processes, *Colloids Surfaces A* 282–283 (2006) 210–216.
7. Ritacco H., A. Cagna, D. Langevin, Oscillating bubble measurements of the compression viscoelasticity of mixed surfactant–polyelectrolyte surface layers, *Colloids Surfaces A* 282–283 (2006) 203–209.
8. Song X.W., Y.Y. Wang, X.L. Cao, L. Luo, L. Wang, L. Zhang, Y.X. Yue, S. Zhao, J.Y. Yu, Dilational viscoelastic properties of sodium alkyl benzene sulfonates with different structures at octane/water interface, *Acta Physico-Chemica Sinica* 22(12) (2006) 1441–1444.
9. Sosnowski T.R., M.K. Pawelec, L. Gradon, Influence of deformations on dynamic properties of gas–liquid interface in the presence of surfactants, *Inzynieria Chemiczna i Procesowa* 27(1) (2006) 93–106.
10. Wang L., R.-H. Yoon, Role of hydrophobic force in the thinning of foam films containing a nonionic surfactant, *Colloids Surfaces A* 282–283 (2006) 84–91.
11. Wang L., Surface Forces in Foam Films, PhD Thesis, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA, 2006.
12. Wang L., R.-H. Yoon, Stability of foams in the presence of ionic and non-ionic surfactants, *IMPC 2006, Proceedings*, 2006, 453–458.
13. Aksenenko A.V., V.I. Kovalchuk, V.B. Fainerman, R. Miller, Surface dilational rheology of mixed surfactants layers at liquid interfaces, *J. Phys. Chem. C* 111(40) (2007) 14713–14718.
14. Friedrich C., Y.Y. Antonov, Interfacial relaxation in polymer blends and Gibbs elasticity, *Macromolecules* 40(4) (2007) 1283–1289.

15. Hannisdal A., P.V. Hemmingsen, A. Silset, J. Sjoblom, Stability of water/crude oil systems correlated to the physicochemical properties of the oil phase, *J. Dispersion Science Technology* 28(4) (2007) 639–652.
16. Hannisdal A., R. Orr, J. Sjoblom, Viscoelastic properties of crude oil components at oil–water interfaces. 2: Comparison of 30 oils, *J. Dispersion Science Technology* 28(3) (2007) 361–369.
17. Nobre T.M., T. Wokg, M.E.D. Zaniquelli, Equilibrium and dynamic aspects of dodecyltrimethylammonium bromide adsorption at the air/water interface in the presence of  $\lambda$ -carrageenan, *J. Colloid Interface Sci.* 305(1) (2007) 142–149.
18. Pavinatto F.J., A. Pavinatto, L. Caseli, D.S. Dos Santos Jr., T.M. Nobre, M.E.D. Zaniquelli, O.N. Oliveira Jr., Interaction of chitosan with cell membrane models at the air–water interface, *Biomacromolecules* 8(5) (2007) 1633–1640.
19. Pavinatto F.J., L. Caseli, A. Pavinatto, D.S. Dos Santos Jr., T.M. Nobre, M.E.D. Zaniquelli, H.S. Silva, O.N. De Oliveira Jr., Probing chitosan and phospholipid interactions using Langmuir and Langmuir–blodgett films as cell membrane models, *Langmuir* 23(14) (2007) 7666–7671.
20. Caseli L., F.J. Pavinatto, T.M. Nobre, M.E.D. Zaniquelli, T. Vitala, O.N. Jr. Oliveira, Chitosan as a removing agent of  $\beta$ -lactoglobulin from membrane models, *Langmuir* 24(8) (2008) 4150–4156.
21. Hasenhuettl G.L., Forecasting the future of food emulsifiers, *Food emulsifiers and Their Applications*, 2008, 359–402.
22. Kazakov V.N., V.B. Fainerman, P.G. Kondratenko, A.F. Elin, O.V. Sinyachenko, R. Miller, Dilational rheology of serum albumin and blood serum solutions as studied by oscillating drop tensiometry, *Colloids and Surfaces B: Biointerfaces* 62 (1) (2008) 77–82.
23. Li Y.M., G.Y. Xu, X. Xin, X.R. Cao, D. Wu, Dilational surface viscoelasticity of hydroxypropyl methyl cellulose and CnTAB at air–water surface, *Carbohydrate Polymers* 72 (2) (2008) 211–221.
24. Malysa K., K. Lunkenheimer, Foams under dynamic conditions, *Current Opinion in Colloid and Interface Science* 13(3) (2008) 150–162.
25. Ravera F., M. Ferrari, L. Liggieri, G. Loglio, E. Santini, A. Zanolini, Liquid–liquid interfacial properties of mixed nanoparticle–surfactant systems, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 323(1–3) (2008) 99–108.
26. Wang L., R.H. Yoon, Effects of surface forces and film elasticity on foam stability, *Int. J. Mineral Processing* 85(4) (2008) 101–110.
27. Yoon R.-H., L. Wang, A response to the comment on "hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: Effect of electrolyte", *Langmuir* 24(9) (2008) 5194–5196.
28. Zhang H., G. Xu, D. Wu, S. Wang, Aggregation of cetyltrimethylammonium bromide with hydrolyzed polyacrylamide at the paraffin oil/water interface: Interfacial rheological behavior study, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 317(1–3) (2008) 289–296.
29. Zhang L., X.-C. Wang, Q.-T. Gong, L. Zhang, L. Luo, S. Zhao, J.-Y. Yu, Interfacial dilational properties of tri-substituted alkyl benzene sulfonates at air/water and decane/water interfaces, *Journal of Colloid and Interface Science* 327(2) (2008) 451–458.
30. Zhang L., L. Luo, S. Zhao, J.-Y. Yu, Ultra low interfacial tension and interfacial dilatational properties related to enhanced oil recovery, *Petroleum Science Research Progress* (2008) 81–140.
31. Fainerman V.B., Dilatational behavior of mixed protein-surfactant layers, in: *Interfacial Rheology*, R. Miller and L. Liggieri Eds., 2009, Ch. 9.
32. Fainerman V.B., E.V. Aksenenko, S.V. Lylyk, A.V. Makievski, F. Ravera, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of Tritons surfactants. 3. Dilational visco-elasticity, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 334(1–3) (2009) 16–21.
33. Henry C., Bubbles, thin films and ion specificity, PhD Thesis, The Australian National University, 2009.
34. Kazakov V.N., V.M. Knyazevich, O.V. Sinyachenko, V.B. Fainerman, R. Miller, Interfacial rheology of biological liquids: Application in medical diagnostics and treatment monitoring, *Interfacial Rheology* (2009) 519–566.
35. Kovalchuk V.I., E.V. Aksenenko, R. Miller, V.B. Fainerman, Surface dilational rheology of mixed adsorption layers of proteins and surfactants at liquid interfaces, *Interfacial Rheology* (2009) 332–371.
36. Lan Q., J. Zhang, L.I. Gongrang, Y. Xue, Research progress made of foams under dynamic condition, *Drilling Fluid and Completion Fluid* 26(4) (2009) 62–65+94.
37. Li Z.Q., L. Zhang, F. Yan, L. Zhang, S. Zhao, J.Y. Yu, Surface dilatational properties of n-alcyltaurate amphiphiles with aromatic sode chains, *Acta Physico Chimica Sinica* 25(9) (2009) 1939–1944.
38. Liggieri L, F. Ravera, Rheology of surfactant adsorption layers, in: *Interfacial Rheology*, R. Miller and L. Liggieri Eds., 2009, Ch. 5.
39. Pauchard V., J. Sjoblom, S. Kokal, P. Bouriat, C. Dicharry, H. Muller, A.A. Hajji, Role of naphthenic acids in emulsion tightness for a low–total–acid–number (TAN)/high–asphaltenes oil, *Energy and Fuels* 23(3) (2009) 1269–1279.



40. Ravera F., L. Liggieri, G. Loglio, Dilational rheology of adsorbed layers by oscillating drops and bubbles, *Interfacial Rheology* (2009) 137–177.
41. Sinyachenko O., V.B. Fainerman, Elasticity as a diagnostic tool in medicine, in: *Interfacial Rheology*, R. Miller and L. Liggieri Eds., 2009, Ch. 13.
42. Xulong C., C. Xiaohong, L. Xiulan, Z. Shengwen, Z. Yanyan, X. Guiying, Study on the aggregation behavior of surfactant at interface by the dilatational rheological methods, *Chemistry Bulletin / Huaxue Tongbao* 72(6) (2009) 507–515.
43. Zhang L., Q.-T. Gong, Z.-H. Zhou, W.-N. Wang, L. Zhang, S. Zhao, J.-Y. Yu, Study of interfacial dilatational properties by the spinning drop technique, *Wuli Huaxue Xuebao / Acta Physico Chimica Sinica* 25(1) (2009) 41–46.
44. Zhang L., X.C. Wang, Q. T. Gong, L. Luo, L. Zhang, S. Zhao, J. Yong-Yu, Effect of Electrolyte on the Interfacial Dilational Properties of Sodium 4,5-Diheptyl-2-propylbenzene Sulfonate at the Oil-Water Interface, *J. Dispersion Sci. Technology* 30(2) (2009) 217–221.
45. Berg G., L.E. Lundgaard, N. Abi-Chebel, Electrically stressed water drops in oil, *Chemical Engineering and Processing: Process Intensification* 49(12) (2010) 1229–1240.
46. Fainerman V.B., E.V. Aksenenko, S.A. Zhlob, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of mixed SDS/C<sub>n</sub>EO<sub>m</sub> solutions. II. Dilational viscoelasticity, *Langmuir* 26(3) (2010) 1796–1801.
47. Liggieri L., M. Ferrari, F. Ravera, Recent developments in dilational viscoelasticity of surfactant layers, *Colloids and Interface Science Series* 2 (2010) 313–344.
48. Liggieri L., R. Miller, Relaxation of surfactants adsorption layers at liquid interfaces, *Current Opinion in Colloid and Interface Science* 15(4) (2010) 256–263.
49. Lunkenheimer K., K. Malysa, K. Winsel, K. Geggel, S. Siegel, Novel method and parameters for testing and characterization of foam stability, *Langmuir* 26(6) (2010) 3883–3888.
50. Miller R., J.K. Ferri, A. Javadi, J. Kragel, N. Mucic, R. Wustneck, Rheology of interfacial layers, *Colloid and Polymer Science* 288(9) (2010) 937–950.
51. Pavinatto F.J., Interação entre quitosana e modelos de membrana celular: filmes de Langmuir e Langmuir-Blodgett (LB), PhD Thesis, Interunidades em Ciencia e Engenharia de Materiais, University of Sao Paulo, 2010.
52. Ravera F., G. Loglio, V.I. Kovalchuk, Interfacial dilational rheology by oscillating bubble/drop methods, *Current Opinion in Colloid and Interface Science* 15(4) (2010) 217–228.
53. Yoon R.-H., I. Wang, Hydrophobic forces in foam films, *Colloids and Interface Science Series* vol. 1 (2010) 161–186.
54. Zhang F., Z. Wu, H. Yin, J. Bai, Effect of ionic strength on the foam fractionation of BSA with existence of antifoaming agent, *Chemical Engineering and Processing: Process Intensification* 49(10) (2010) 1084–1088.
55. He F., G. Xu, J. Pang, M. Ao, T. Han, H. Gong, Effect of amino acids on aggregation behaviors of sodium deoxycholate at air/water surface: Surface tension and oscillating bubble studies, *Langmuir* 27(2) (2011) 538–545.
56. Noskov B.A., G. Loglio, R. Miller, Dilational surface visco-elasticity of polyelectrolyte/surfactant solutions: Formation of heterogeneous adsorption layers, *Advance in Colloid and Interface Science* 168(1–2) (2011) 179–197.
57. Sagis L.M.C., Dynamic properties of interfaces in soft matter: Experiments and theory, *Rev. Mod. Phys.* 83 (2011) 1367–1403.
58. Zhang F., Z. Wu, Z. Wu, H. Wang, Effect of ionic strength on the foam separation of nisin from the fermentation broth, *Separation and Purification Technology* 78 (2011) 42–48.
59. Zhang L., H.-Q. Sun, Zhang L., L. Luo, S/ Zhao, Interfacial dilatational rheology related to enhance oil recovery, *Soft Matter* 7 (2011) 7601–7611.
60. Bouyer E., G. Mekhloufi, V. Rosilio, J.L. Grossiord, F. Agnely, Proteins, polysaccharides, and their complexes used as stabilizers for emulsions: alternatives to synthetic surfactants in pharmaceutical field? *International Journal of Pharmaceutics*, 436(1–2) (2012) 359–378.
61. Costa S., Rheologie multiechelle des mousses liquides, Ph. D. Thesis, Universitet Paris-Est, 2012.
62. Wang L., Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants, *Int. Journal of Mineral Processing* 102–103 (2012) 58–68.
63. Wang L., Inter-bubble attractions in aqueous solutions of flotation frothers, *Separation Technologies for Minerals, Coal, and Earth Resources, International Symposium* (2012) 35–45.
64. Cohen-Addad S., R. Hohler, O. Pitois, Flow in foams and flowing foams, *Annual Review in Fluid Mechanics* 45 (2013) 241–267.

65. Costa S., S. Cohen-Addad, A. Salonen, R. Hohler, The dissipative rheology of bubble monolayers, *Soft Matter* 9(3) (2013) 886–895.
66. Mucic N., A. Javadi, M. Karbashi, A. Shapirova, V. Fainerman, E. Aksenenko, N. Kovalchuk, R. Miller, Surfactant adsorption kinetics, *Encyclopedia of Colloid and Interface Science*, 2013, 1090–1126.
67. Reichert M.D., L.M. Walker, Interfacial tension dynamics, interfacial mechanics, and response to rapid dilution of bulk surfactant of a model oil-water-dispersand system, *Langmuir* 29(6) (2013) 1857–1867.
68. Sagis L.M.C., Modeling interfacial dynamics using nonequilibrium thermodynamics frameworks, *European Physical Journal: Special Topics* 222(1) (2013) 105–127.
69. Tovani C.B., J.F.V.D. Souza, T.D.S. Cavallini, G.J.F. Demets, A. Ito, M.B. Barioni, W.M. Pazin, M.E.D. Zaniquelli, Comparison between cucurbiturils and  $\beta$ -cyclodextrin interactions with cholesterol molecules present in Langmuir monolayers used as a biomembrane model, *Colloids and Surfaces B* 111 (2013) 398–406.
70. Zhai X., G. Xu, Y. Chen, T. Liu, J. Zhang, J. Yuan, Y. Tan, J. Zhang, Effect of inorganic salts on the aggregation behavior of branched block polyether at air/water and n-heptane/water interfaces, *Colloid and Polymer Science* 291(12) (2013) 2825–2836.
71. Chen T., G. Zhang, P. Jiang, J. Ge, Dilational rheology at air/water interface and molecular dynamics simulation research of hydroxyl sulfobetaine surfactant, *J. Dispersion Science and Technology* 35(3) (2014) 448–455.
72. Marinova K., Stanimirova R., Georgiev M., Alexandrov N., Basheva E., Kralchevsky P., Co-Adsorption of the Proteins  $\beta$ -Casein and BSA in Relation to the Stability of Thin Liquid Films and Foams, in: *Colloid and Interface Chemistry for Nanotechnology*. 2014, Ch. 18.
73. Noskov B., Protein conformation transitions at the liquid-gas interface as studied by dilatational surface rheology, *Advances in Colloid Interface Science* 206 (2014) 222–238.
74. Siegert M., J. Site, A. Galushko, M. Kruger, Starting up microbial enhanced oil recovery, *Advances in Biochemical Engineering/Biotechnology* 142 (2014) 1–94.
75. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междуфазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
76. Colliat-Dangus P., Interfacial complexation of polymers: features and stability of millimetric emulsions, PhD Thesis, Universite Pierre et Marie Curie, 2015.
77. Kotula A.P., S.I. Anna, Regular perturbation analysis of small amplitude oscillatory dilatation of an interface in a capillary pressure tensiometer, *Journal of Rheology* 59(1) (2015) 85–117.
78. Noskov B.A., A.G. Bykov, Dilatational surface rheology of polymer solutions, *Russian Chemical Reviews* 84(6) (2015) 634–652.
79. Reichert M., L.M. Walker, coalescence behavior of oil droplets coated in irreversibly-adsorbed surfactant layers, *Journal of Colloid and Interface Science* 449 (2015) 480–487.
80. Reichert M.D., N.J. Alvarez, C.F. Brooks, A.M. Grillet, L.A. Mondy, S.L. Anna, L.M. Walker, The importance of experimental design on measurements of dynamic interfacial tension and interfacial rheology in diffusion-limited surfactant systems, *Colloids Surfaces A* 467 (2015) 135–142.
81. Wang L., Modeling of bubble coalescence in saline water in the presence of flotation frothers, *International Journal of Mineral Processing* 134 (2015) 41–49.
82. Zhang D., Y. Li, Z. Chen, J. Li, X. Geng, X. Chen, Shape evolution of free falling deformed droplets, *Kexue Tongbao/Chinese Science Bulletin* 60(10) (2015) 917–921.
83. Fainerman V.B., V.I. Kovalchuk, E.V. Aksenenko, R. Miller, Dilational viscoelasticity of adsorption layers measured by drop and bubble profile analysis: Reason for different results, *Langmuir* 32(22) (2016) 5500–5509.
84. Li Y., J.-L. Chai, Dilational viscoelasticity of imidazole-Based surface active ionic liquids at the air/water interface, *Acta Physico – Chimica Sinica* 32(5) (2016) 1227–1235.
85. Lyadinskaya V., Dilatational surface rheology of polyelectrolyte-surfactant adsorption films, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2016.
86. Vitasari D., P. Grassia, P. Martin, Surfactant transport onto a foam film in the presence of surface viscous stress, *Applied Mathematical Modeling* 40(3) (2016) 1941–1958.
87. Wang J., A.V. Nguyen, S. Farrokhpay, A critical review of the growth, drainage and collapse of foams, *Advances in Colloid and Interface Science* 228 (2016) 55–70.
88. Wang L., Prediction of the critical rupture thickness of foam films formed from saline water in the presence of flotation frothers, *IMPC 2016*, 135047.
89. Desbrieres J., E. Lopez-Gonzales, A. Aguilera-Miguel, V. Sadtler, P. Marchal, C. Castel, L. Choplin, A. Durand, Dilational rheology of oil/water interfaces covered by amphiphilic polysaccharides derived from dextran, *Carbohydrate Polymers* 177 (2017) 460–468.

90. Guo L., Y. Zhu, Z. Xu, Q. Gong, Z. Jin, L. Zhang, L. Zhang, Effect of branched hydrophobic group on the surface dilatational rheology of betaine surfactants, *Chemical Journal of Chinese Universities* 38(8) (2017) 1399–1405.
91. Lamorgese A., R. Mauri, L.M.C. Sagis, Modeling soft interface dominated systems: A comparison of phase field and Gibbs dividing surface models, *Physics Reports* 675 (2017) 1–54.
92. Shu N.-K., Z.-C. Xu, Z.-Y. Liu, Z.-Q. Jin, J.-B. Huang, L. Zhang, Effect of short alkyl chain on interfacial properties of poly-substituted alkyl benzene sulfonate, *Acta Physico-Chimica Sinica* 33(4) (2017) 803–809.
93. Truskowska D., F. Henrich, J. Schultze, K. Koynov, H.J. Rader, H.-J. Butt, G.K. Aurnhammer, Forced dewetting dynamics of high molecular weight surfactant, *Colloids and Surfaces A* 521 (2017) 30–37.
94. Ye X.-M., S.-D. Yang, C.-X. Li, Synergistic effect of disjoining pressure and surface viscosity on film drainage process, *Physica Sinica* 66(19) (2017) 194701.
95. Fainerman V.B., V.I. Kovalchuk, E.V. Aksenenko, M.V. Nikolenko, R. Miller, Dilatational surface viscoelasticity of CnEOm solutions under dynamic conditions, *Colloids and Surfaces A* 557 (2018) 131–136.
96. Yu K., J. Yang, Y.Y. Zuo, Droplet oscillation as an arbitrary waveform generator, *Langmuir* 34 (2018) 7042–7047.
97. Abi Chebel N., A. Piedfert, B. Lalanne, C. Dalmazzone, C. Noik, O. Masbernat, F. Risso, Interfacial dynamics and rheology of a crude-oil droplet oscillating in water at high frequency, *Langmuir* 35(29) (2019) 9441–9455.
98. Bae J.-E., Jung J. B., Kim K., Lee S.-M., N.-G. Kang, A study of time concentration superposition of dilatational modulus and foaming behavior of sodium alkyl sulfate, *Journal of Colloid and Interface Science* 556 (2019) 704–716.
99. Jiang P., L. Zhang, D. Tang, L. Li, J. Ge, G. Zhang, H. Pei, Effect of nano-SiO<sub>2</sub> and surfactants on the oil-water interfacial properties, *Colloid and Polymer Science* 297(6) (2019) 903–915.
100. Kovalchuk V.I., E.V. Aksenenko, A.V. Makievski, V.B. Fainerman, R. Miller, Dilatational interfacial rheology of tridecyl dimethyl phosphine oxide adsorption layers at the water/hexane interface, *Journal of Colloid and Interface Science* 539 (2019) 30–37.
101. Furtado F.A.D.S., J.F.B. Escobar, A.M. Martinez, C. Giordani, J.M.A. Caiut, L. Caseli, C. Molina, Molecular information on the potential of europium complexes for local recognition of a nucleoside-based drug by using nanostructured interfaces assembled as Langmuir-Blodgett films, *Langmuir* 36 (2020) 3843–3852.
102. Goral I., K. Wojciechowski, Surface activity and foaming properties of saponin-rich plants extracts, *Advances in Colloid and Interface Science* 279 (2020) 102145.
103. Kovalchuk V.I., G. Loglio, A.G. Bykov, M. Ferrari, J. Kragel, L. Liggieri, R. Miller, O.Yu. Milyaeva, B.A. Noskov, F. Ravera, E. Santini, E. Schneck, Effect of temperature on the dynamic properties of mixed surfactant adsorbed layers at the water/hexane interface under low-gravity conditions, *Colloids and Interfaces* 4 (2020) 4030027.
104. Lei J., Y. Gao, X. Hou, C. Zhang, F. Du, A simple and effective strategy to enhance the stability and solid-liquid interfacial interaction of an emulsion by the interfacial dilational rheological properties, *Soft Matter* 16 (2020) 5650–5658.
105. Barrabino A., T. Holt, B. Bjorkvik, E. Lindeberg, First approach to measure interfacial rheology at high-pressure conditions by the oscillating drop technique, *Colloids and Interfaces* 5 (2021) 23.
106. Hinderink E.B.A., M.B.J. Meinders, R. Miller, L. Sagis, K. Schroen, C.C. Berton-Carabin, Interfacial protein-protein displacement at fluid interfaces, *Advances in Colloid and Interface Science* 395 (2022) 102691.
107. Mileti O., N. Baldino, J.A. Carmona, F.R. Lupi, J. Munoz, D. Gabriele, Shear and dilatational rheological properties of vegetable proteins at the air/water interface, *Food Hydrocolloids* 126 (2022) 107472.
108. Sun L., D. Chen, Y. Zhang, X. Sun, W. Pu, B. Wei, J. Tang, X. Sun, Probing high-salinity-enhanced stability of betaine foam for foam application in harsh reservoirs, *Fuel* 327 (2022) 125144.
109. Liggieri L., M. Ferrari, F. Ravera, Recent developments in dilatational viscoelasticity of surfactant layers, *Colloids and Interface Science Series* 6 (2014) 313–344.
110. Yoon R.-H., L. Wang, Hydrophobic forces in foam films, *Colloids and Interface Science Series* 6 (2014) 161–186.
111. Figura L.O., A.A. Teixeira, *Interfaces, Food Physics* 2023, 247–283.
112. Baldino N., O. Mileti, M.F.O. Paleologo, F.R. Lupi, D. Gabriele, Dilatational and Shear Interfacial Properties of Pea Protein Isolate Systems with Transglutaminase at the Air–Water Interface, *Macromol* 4 (2024) 227–239.

- 117 **K.D. Danov, P.A. Kralchevsky, B.N. Naydenov, G. Brenn, Interactions between particles with an undulated contact line at a fluid interface: Capillary multipoles of arbitrary order, J. Colloid Interface Sci. 287 (2005) 121–134. (брой: 189)**
1. van Nierop E.A., M.A. Stijnman, S. Hilgenfeldt, Shape-induced capillary interactions of colloidal particles, *Europh. Lett.* 72(4) (2005) 671–677.
  2. Bordacs S., A. Agod, Z. Horvolgyi, Compression of Langmuir films composed of fine particles: collapse mechanism and wettability, *Langmuir* 22(16) (2006) 6944–6950.
  3. Horozov T.S., B.P. Binks, R. Aveyard, J.H. Clint, Effect of particle hydrophobicity on the formation and collapse of fumed silica particle monolayers at the oil–water interface, *Colloids Surfaces A* 282–283 (2006) 377–386.
  4. Loudet J.C., A.G. Yodh, B. Pouligny, Wetting and contact lines of micrometer-sized ellipsoids, *Phys. Rev. Lett.* 97(1) (2006) 018304.
  5. Zeng C., H. Bissig, A.D. Dinsmore, Particles on droplets: from fundamental physics to novel materials, *Solid State Communications* 139(11–12) (2006) 547–556.
  6. Huang W.A., Q. Lan, Y. Zhang, Colloid particles adsorption and interfacial assembly at the fluids interface, *Progress in Chemistry* 19(2–3) (2007) 212–219.
  7. Lehle H., E. Noruzifar, M. Oettel, Ellipsoidal particles at fluid interfaces, *European Physical Journal E* 26(1–2) (2008), 151–160.
  8. Lehle H., *Fluktuations- und Kapillarkraefte zwischen Kolloiden und fluiden Granzflaeschen*, PhD Thesis, Faculty of Mathematics and Physics, Studgart University, 2008.
  9. Lewandowski E.P., J.A. Bernate, P.C. Searson, K.J. Stebe, Rotation and alignment of anisotropic particles on nonplanar interfaces, *Langmuir* 24(17) (2008) 9302–9307.
  10. Oettel M., S. Dietrich, Colloidal interactions at fluid interfaces, *Langmuir* 24 (4) (2008) 1425–1441.
  11. Tao X., J. Mingshang, X. Zhaoxiong, H. Rongbin, Z. Lansun, Tensions at liquid interfaces: A general filter for the separation of micro-/nanoparticles, *Langmuir* 24 (2008) 2281–2283.
  12. Xu T., M. Jin, Z. Xie, Z. Jiang, Q. Kuanng, H. Wu., R. Huang, L. Zheng, Tension of liquid interfaces: A general filter for the separation of micro-/nanoparticles, *Langmuir* 24(6) (2008) 2281–2283.
  13. von Hartwig Lehle, V., *Fluktuations- und Kpillarkräfte zwischen Kolloiden an fluiden Grenzflächen*, Ph.D. Thesis (Supervisor: S. Dietrich), Fakultät für Mathematik und Physik der Universität Stuttgart, Germany, 2008.
  14. Brugger B., S. Rutten, K.H. Phan, M. Moller, W. Richtering, The Colloidal Suprastructure of Smart Microgels at Oil–Water Interfaces, *Angewandte Chemie–International Edition* 48(22) (2009) 3978–3981.
  15. Cheng H.-L., *Spreading and jamming phenomena of particle-laden interfaces*, PhD Thesis, School of Engineering, University of Pittsburgh, USA, 2009.
  16. Genevieve M., *Assemblage Dirigée d’Objets à Partir de Solutions Colloïdales*, PhD Thesis, INSA, Toulouse, 2009.
  17. Kurella A.K., A.N. Samant, N.B. Dahotre, Laser surface multilevel self-assembly of CaP–TiO<sub>2</sub> particles, *J. Applied Physics* 105(1) (2009) Pap. No. 014913.
  18. Kurella A.K., *Lase induced hierarchical coatings*, PhD Thesis, University of Tennessee, 2009.
  19. Loudet J.C., B. Pouligny, Self-assembled capillary arrows, *Euro Physics Letters* 85 (2009) Pap. No. 28003.
  20. Wu, Chin-Yuan, *Particle Dynamics and Microrheology at Liquid–Liquid Interface*, PhD Thesis, Texas Tech University, Lubbock, TX, USA, 2009.
  21. Dominguez A., M. Oettel, S. Dietrich, Dynamics of colloidal particles with capillary interactions *Phys. Rev. E* 82(1) (2010) 011402.
  22. Dominguez A., Capillary forces between colloidal particles at fluid interfaces, in: *Structure and Functional Properties of Colloidal Systems*, CRC Press, 2010, Ch. 2.
  23. Guzowski J.J., *Capillary interactions between colloidal particles at curved fluid interfaces*, PhD Thesis, Studgard University, 2010.
  24. Lewadnowski E.P., M. Cavallaro, L. Botto, J.C. Bernate, V. Garbin, K.J. Stebe, Orientation and Self-Assembly of Cylindrical Particles by Anisotropic Capillary Interactions, *Langmuir* 26(19) (2010) 15142–15154.
  25. McGorty R., J. Fung, D. Kaz, V.N. Manoharan, Colloidal self-assembly at an interface, *Materials Today* 13(6) (2010) 34–42.
  26. Pozrikidis C., Computation of three-dimensional hydrostatic menisci, *IMA Journal of Applied Mathematics* 75(3) (2010) 418–438.
  27. Pozrikidis C., Hydrostatic meniscus between two eccentric circular cylinders, *J. Colloid Interface Sci.* 349(1) (2010) 366–373.
  28. Cavallaro M., L. Botto, E.P. Lewandovski, M. Wang, K.J. Stebe, Curvature-driven capillary migration and assembly of rod-like particles, *PNAS* 108(52) (2011) 20923–20928.



29. Delgadilo S.M.A., Pickering emulsions as templates for smart colloidosomes, PhD Thesis, Georgia Institute of Technology, 2011.
30. Guzowski J., M. Tasinkevich, S. Dietrich, Effective interactions and equilibrium configurations of colloidal particles on a sessile droplet, *Soft Matter* 7(9) (2011) 4189–4197.
31. Jiang X., T. Zhang, L. Xu, C. Wang, X. Zhou, N. Gu, Surfactant-induced formation of honeycomb pattern on micropipette with curvature gradient, *Langmuir* 27(9) (2011) 5410–5419.
32. Loudet J.C., B. Pouligny, How do mosquito eggs self-assemble on the water surface? *European Physical Journal E* 34(8) (2011) Art. No. 76.
33. Masschaele K., Vermant J., Electric field controlled capillary traps at water/oil interfaces, *Soft Matter* 7 (2011) 105971–10600.
34. McNamee C.E., S. Yamamoto, H.-J. Butt, K. Higashitani, A straightforward way to form close-packed TiO<sub>2</sub> particle monolayers at an air/water interface, *Langmuir* 27(3) (2011) 887–894.
35. Morriss G., S.J. Neethling, J.J. Cilliers, A model for investigating the behaviour of non-spherical particles at interfaces, *J. Colloid Interface Sci.* 354(1) (2011) 380–385.
36. Park B.J., T. Brugarolas, D. Lee, Janus particles at an oil-water interface, *Soft Matter* 7(14) (2011) 6413–6417.
37. Pozrikidis C., Shape of hexagonal hydrostatic menisci, *International Journal for Numerical Methods in Fluids* 65(6) (2011) 625–637.
38. Zeng C., Capillary interactions among microparticles and nanoparticles at fluid interfaces, PhD Thesis, University of Massachusetts, 2011.
39. Botto L., E.P. Lewandowski, M. Cavalirro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
40. Chatterjee N., S. Lapin, M. Fluri, Capillary forces between sediment particles and an air-water interface, *Environmental Science and Technology* 46(8) (2012) 4411–4418.
41. Cooray H., P. Cicuta, D. Vella, The capillary interactions between two vertical cylinders, *Journal of Physics Condensed Matter* 24(28) (2012) Art. 284104.
42. Ghosh M. K.J. Stebe, Convective assembly of patterned media, *Evaporative Self-Assembly of Ordered Complex Structures* (2012) 59–108.
43. Iwafuji Y., C.E. McNamee, Use of attractive forces to create a self-assembled film of charged nano-particles with a controlled packing, *Colloid Surfaces A* 398 (2012) 24–31.
44. McBride S.P., Surface Science Experiments Involving the Atomic Force Microscope, PhD Thesis, Kansas State University, 2012.
45. Pozrikidis C., Capillary attraction of floating rods, *Engineering Analysis with Boundary Elements* 36(5) (2012) 836–844.
46. San-Miguel A., Behrens S.H., Influence of nanoscale particle roughness on the stability of pickering emulsions, *Langmuir* 28(33) (2012) 12038–12043.
47. Vandewalle N., L. Clermont, D. Terwagne, S. Dorbolo, E. Mersch, G. Lumay, Symmetry breaking in a few-body system with magnetocapillary interactions, *Physical Review E* 85(4) (2012) Art. 041402.
48. Zeng C., F. Brau, B. Davidovitch, A.D. Dinsmore, Capillary interactions among spherical particles at curved liquid interfaces, *Soft Matter* 8(33) (2012) 8582–8594.
49. Chatterjee N., M. Flury, Effect of particle shape on capillary forces acting on particles at the air-water interface, *Langmuir* 29(25) (2013) 7903–7911.
50. Chatterjee N., Capillary forces on sediment particles, PhD Thesis, Washington State University, 2013.
51. Fung J., Measuring the 3D Dynamics of Multiple Colloidal Particles with Digital Holographic Microscopy, PhD Thesis, Harvard University, 2013.
52. Kumar A., B.J. Park, F. Tu, D. Lee, Amphiphilic Janus particles at fluid interfaces, *Soft Matter* 9(29) (2013) 6604–6617.
53. Leandri J., A. Wurger, Trapping energy of a spherical particle on a curved liquid interface, *Journal of Colloid and Interface Science* 405 (2013) 249–255.
54. Mihiretie B., Mechanical effect of light on anisotropic micron-sized particles, PhD Thesis, Université Sciences et Technologies – Bordeaux, 2013.
55. Morgan A.R., N. Ballard, L.A. Rochford, G. Nurumbetov, T.S. Skelton, S.A.F. Bon, Understanding the multiple orientations of isolated superellipsoidal hematite particles at the oil-water interface, *Soft Matter* 9(2) (2013) 487–491.
56. Park B.J., C.-H. Choi, S.-M. Kang, K.E. Tetey, C.-S. Lee, D. Lee, Double hydrophilic janus cylinders at an air-water interface, *Langmuir* 29(6) (2013) 1841–1849.
57. Park B.J., C.-H. Choi, S.-M. Kang, K.E. Tetey, C.-S. Lee, D. Lee, Geometrically and chemically anisotropic particles at an oil-water interface, *Soft Matter* 9(12) (2013) 3383–3388.

58. Rezvantab H., S. Shojaei-Zadeh, Capillary interactions between spherical Janus particles at liquid-liquid interfaces, *Soft Matter* 9(13) (2013) 3640–3650.
59. Sang W., V.L. Morales, W. Zhang, C.R. Stoof, B. Gao, A.L. Schatz, Y. Zhang, T.S. Steenhuis, Quantification of colloid retention and release by straining and energy minima in variably saturated porous media, *Environmental Science and Technology* 47(15) (2013) 8256–8264.
60. Van Hooghten R., L. Imperiali, V. Boeckx, R. Sharma, J. Vermant, Rough nanoparticles at the air-water interfaces: their structure, rheology and applications, *Soft Matter* 9(45) (2013) 10791–10798.
61. Bleibel J., Cosmology in a petry dish? Simulation of collective of colloids at fluid interfaces, *EPJ Web of Conferences* 70 (2014) 00048.
62. Cooray P.L.H.M., The capillary interaction between objects at liquid interfaces, PhD Thesis, Department of Physics, University of Cambridge, 2014.
63. Dasgupta S., M. Katavala, M. Faraj, T. Auth, G. Gompper, Capillary assembly of microscale ellipsoidal, cuboidal, and spherical particles, *Langmuir* 30(40) (2014) 11873–11882.
64. Kang S.-M., A. Kumar, C.-H. Choi, K.E. Tetey, C.-S. Lee, D. Lee, B.J. Park, Triblock cylinders at fluid-fluid interfaces, *Langmuir* 30 (2014) 13199–13204.
65. Park B.J., Behaviors of colloidal particles at fluid-fluid interfaces, *Polymer Science and Technology* 25(1) (2014) 21–27.
66. Park B.J., D. Lee, Particles at fluid-fluid interfaces: From single particle behavior to hierarchical assembly of materials, *MRS Bulletin* 39(12) (2014) 1089–1096.
67. Poty M., G. Lumay, N. Vandewalle, Customizing mesoscale self-assembly with three-dimensional printing, *New Journal of Physics* 16 (2014) 023013.
68. Senbil N., Contact angles and contact lines around particles at isotropic and anisotropic liquid interfaces, PhD Thesis, University of Massachusetts, 2014.
69. Bae J., Assembly and deformation of amphiphilic copolymers and networks at fluid interfaces, PhD Thesis, Massachusetts University, 2015.
70. Davis G.B., Modelling colloidal particles adsorbed at fluid-fluid interfaces, PhD Thesis, University College London, 2015.
71. Davies G.B., L. Botto, Dipolar capillary interaction between tilted ellipsoidal particles adsorbed at fluid-fluid interfaces, *Soft Matter* 11(40) (2015) 7969–7976.
72. Deshmukh O., D. van den Ende, M.C. Stuart, F. Mugele, M.H.G. Duits, Hard and soft colloids at fluid interfaces: Adsorption, interactions, assembly, and rheology, *Advances in Colloid and Interface Science* 222 (2015) 215–227.
73. Dorr A., S. Hardt, Driven particles at fluid interfaces acting as capillary dipoles, *Journal of Fluid Mechanics* 770 (2015) 5–26.
74. Lee M., D. Lee, B.J. Park, Effect of interaction heterogeneity on colloidal arrangements at a curved oil-water interface, *Soft Matter* 11(2) (2015) 318–323.
75. Park B.J., D. Lee, Dynamically tuning particle interactions and assemblies at soft interfaces: Reversible order-disorder transitions in 2D particle monolayers, *Small* 11(35) (2015) 4560–4567.
76. Park B.J., D. Lee, E.M. Furst, Interactions and conformations of particles at fluid-fluid interfaces, *RSC Soft Matter* 2015(3) (2015) 8–44.
77. Zang D., Y. Zhang, Properties of liquid surfaces coated with nanoparticles, *Comprehensive Guide for Nanocoatings Technology: e. Properties and development* (2015) 35–51.
78. Zhao W., T. Yang, C. Olguin, Step into micro-world: Dynamic simulation of coffee-ring effect, 14<sup>th</sup> International Conference on Computer-Aided Design and Computer Graphics (2015) 15905350.
79. Barman S., G.F. Christopher, Role of capillarity and microstructure on the interfacial viscoelasticity of particle laden interfaces, *Journal of Rheology* 60(1) (2016) 35–45.
80. Cappelli S., Magnetic particles at fluid-fluid interfaces: microrheology, interaction and wetting, PhD Thesis, Technical University, Eindhoven, 2016.
81. Hausmann R., Effective field theory of particle interactions mediated by fluid surfaces, PhD Thesis, Carnegie Mellon University, 2016.
82. Kang S.-M., C.-H. Choi, J. Kim, S.-J. Yeom, D. Lee, B.J. Park, C.-S. Lee, Capillarity-induced directed self-assembly of patchy hexagram particles at the air-water interface, *Soft Matter* 12(27) (2016) 5847–5853.
83. Karpistchka S., A. Padney, L.A. Lubbers, J.H. Weijs, L. Botto, S. Das, B. Andreotti, J.H. Snoeijer, Liquid drops attract or repel by the inverted Cheerios effect, *PNAS* 113(27) (2016) 7403–7407.
84. Kozina A., S. Ramos, P. Diaz-Leyva, R. Castillo, Out-of-equilibrium assembly of colloidal particles at air/water interface tuned by their chemical modification, *Journal of Physical Chemistry C* 120(30) (2016) 16879–16886.
85. Lee M., M. Xia, B.J. Park, Transition behaviors of configurations of colloidal particles at a curved oil-water interface, *Materials* 9(3) (2016) 138.

86. Liu I.B., N. Shanfi-Mood, K. Stebe, curvature-driven assembly in soft matter, *Philosophical Transactions of the Royal Society A* 374(2072) (2016) Art. No. 201501333.
87. Newton B.J., D.M.A. Buzza, Magnetic cylindrical colloids at liquid interfaces exhibit non-volatile switching of their orientation in an external field, *Langmuir* 12(24) (2016) 5285–5296.
88. Shanfi-Mood N., I.B. Liu, K. Stebe, Capillary interactions on fluid interfaces: Opportunities for directed assembly, *Proceedings of the International School of Physics “Enrico Fermi”* 193 (2016) 165–215.
89. Soligno G., M. Dijkstra, R. Van Roij, Self-assembly of cubes into 2D hexagonal and honeycomb lattices by hexapolar capillary interactions, *Physical Review Letters* 116(25) (2016) 258001.
90. Sun X., Y. Chen, J. Zhao, Highly stable aqueous foams generated by fumed silica particles hydrophobised in situ with a quaternary ammonium gemini surfactant, *RSC Advances* 6(45) (2016) 38913–38918.
91. Zanini N., L. Isa, Particle contact angles at fluid interfaces: Pushing the boundary beyond hard uniform spherical colloids, *Journal of Physics Condensed Matter* 28(31) (2016) 313002.
92. Zhao W., T. Yang, C. Olguin, Step into micro-world: Dynamic simulations of the coffee-ring effect, *CAD/Graphics 2015, Proceedings 2016*, 7450405, 113–120.
93. Bae J., N.P. Bende, A.A. Evans, J.-H. Na, C.D. Santangelo, R.C. Hayward, Programmable and reversible assembly of soft capillary multipoles, *Materials Horizons* 4(2) (2017) 228–235.
94. Bedi D.S., Critical mechanical structures – Thermal fluctuations and self-assembly, PhD Thesis, University of Michigan, 2017.
95. Cappelli S., A.M. De Jong, J. Baudry, M.W.J. Prins, Interparticle capillary forces at fluid-fluid interface with strong polymer-induced aging, *Langmuir* 33 (2017) 696–705.
96. Dasgupta S., T. Auth, G. Gompper, Nano- and microparticles at fluid and biological interfaces, *Journal of Physics: Condensed Matter* 29 (2017) 373003.
97. De Leon A.C., B.J. Rodier, Q. Luo, C.M. Hemmingsen, P. Wei, K. Abbasi, R. Advincula, E.B. Pentzer, Distinguishing chemical and physical properties of Janus nanosheet, *ACS Nano* 11(7) (2017) 7485–7493.
98. Fei W., Y. Gu, K.J.M. Bishop, Active colloidal particles at fluid-fluid interfaces, *Current Opinion in Colloid and Interface Science* 32 (2017) 57–68.
99. Fernandez-Rodriguez M.A., B.P. Binks, M.A. Rodriguez-Valverde, M.A. Cabrerizo-Vilchez, R. Hidalgo-Alvarez, Particles adsorbed at various non-aqueous liquid-liquid interfaces, *Advances in Colloid and Interface Science* 247 (2017) 208–222.
100. Huang S., K. Gawlitza, R. Von Klitzing, W. Steffen, G.K. Aurenhammer, Structure and rheology of microgel monolayers at the water/oil interface, *Macromolecules* 50(9) (2017) 3680–3689.
101. Kang D.V., M. Lee, K.H. Kim, M. Xia, S.H. Im, B.J. Park, Electrostatic interactions between particles through heterogeneous fluid phases, *Soft Matter* 13 (2017) 6647–6658.
102. Pandey A., S. Karpitschka, L.A. Lubbers, J.H. Weijss, L. Botto, S. Das, B. Andreotti, J.H. Snoeijer, Dynamic theory of the inverted cheerios effect, *Soft Matter* 13(35) (2017) 6000–6010.
103. Arab D., A. Kantzas, S.I. Briant, Nanoparticle stabilized oil in water emulsions: A critical review, *Journal of Petroleum Science and Engineering* 163 (2018) 217–242.
104. Bresme F., Theoretical approaches to investigate anisotropic particles at fluid interfaces, *Anisotropic Particle Assemblies: Synthesis, Assembly, Modeling, and Applications* (2018) 233–260.
105. De Corato M., V. Garbin, Capillary interactions between dynamically forced particles adsorbed at a planar interface and on a bubble, *Journal of Fluid Mechanics* 847 (2018) 71–92.
106. Dietrich K., G. Volpe, M.N. Sulaiman, D. Rengli, I. Buttinoni, L. Isa, Active atoms and interstitials in two-dimensional colloid crystals, *Physical Review Letters* 120(26) (2018) 268004.
107. Goggin D.M., J.R. Samaniuk, Dynamics of pristine graphite and graphene at an air-water interface, *AIChJ* 64 (2018) 3177–3187.
108. He W., Measured capillary forces on spheres at liquid interfaces and the mechanisms of particulate assemblies, PhD Thesis, University of Massachusetts, 2018.
109. Huerre A., M. De Corato, V. Garbin, dynamic capillary assembly of colloids at interfaces with 10000 g accelerations, *Nature Communications* 9(1) (2018) 3620.
110. Lim J.H., J.Y. Kim, D.W. Kang, K.H. Choi, S.J. Lee, S.H. Im, B.J. Park, Heterogeneous capillary interactions of interface-trapped ellipsoid particles using the trap-release method, *Langmuir* 34(1) (2018) 384–394.
111. Liu I.B., N. Sharifi-Mood, K.J. Stebe, Capillary assembly of colloids: Interactions on planar and curved interfaces, *Annual Review of Condensed Matter Physics* 9 (2018) 283–305.
112. Kim P.Y., A.D. Dinsmore, D.A. Hoagland, T.P. Russell, Wetting, meniscus structure, and capillary interactions of microspheres bound to a cylindrical liquid interface, *Soft Matter* 14(11) (2018) 2131–2141.
113. Mulla Y., G. Oliveri, J.T.B. Overvelde, G.H. Koendering, Crack initiation in viscoelastic materials, *Physical Review Letters* 120(26) (2018) 268002.

114. Newton B.J., R. Mohammed, G.B. Davies, L. Botto, D.M.A. Buzza, Capillary interaction and self-assembly of tilted magnetic ellipsoidal particles at liquid interface, *ACS Omega* 3(11) (2018) 14962–14972.
115. Varanasi S., L. Henzel, L. Mendoza, E. Prathapan, W. Batchelor, R. Tabor, G. Gamier, Pickering emulsions electrostatically stabilized by cellulose nanocrystals, *Front Chemistry* 6 (2018) 409.
116. Wang W., V. Kishore, L. Koens, E. Lauga, M. Sitti, Collectives of spinning mobile microrobots for navigation and object manipulation at the air-water interface, *IEEE International Conference on Intelligent Robots and Systems* 2018 8593519 pp. 6186–6192.
117. Yu K., H. Zhang, S. Biggs, Z. Xu, O.J. Cayre, D. Harbottle, The rheology of polyvinylpyrrolidone-coated silica nanoparticles positioned at an air-aqueous interface, *Journal of Colloid and Interface Science* 527 (2018) 346–355.
118. Zanini N., I. Lesov, E. Marini, C.-P. Hsu, C. Marshelke, A. Synytska, S.E. Anachkov, L. Isa, Detachment of rough colloids from liquid-liquid interfaces, *Langmuir* 34(16) (2018) 4861–4873.
119. Ballard N., A.D. Law, S.A.F. Bon, Colloidal particles at fluid interfaces, *Soft Matter* 15(6) (2019) 1186–1199.
120. Carrasco-Fadanelli V., R. Castillo, Measurements of the force between uncharged colloidal particles trapped at a flat air/water interface, *Soft Matter* 15(29) (2019) 5815–5818.
121. Forth J., P.Y. Kim, G. Xie, X. Liu, B.A. Helms, T.P. Russell, Building reconfigurable devices using complex liquid-fluid interfaces, *Advances Materials* 31 (2019) 1806370.
122. Kang D.W., K.H. Choi, S.J. Lee, B.J. Park, Mapping anisotropic and heterogeneous colloidal interactions via optical laser tweezers, *Journal of Physical Chemistry Letters* 10(8) (2019) 1691–1697.
123. Kim H., J. Kang, Y. Zhou, T. Emrick, R.C. Hayward, Light-driven shape morphing, assembly, of motion of nanocomposite gel surfers, *Advanced Materials* 31 (2019) 1900932.
124. Koens L., W. Wang, M. Sitti, E. Lauga, The near and far of a pair of magnetic capillary disks, *Soft Matter* 15(7) (2019) 1497–1507.
125. Laal-Dehghani N., G.F. Christopher, 2D stokesian simulation of particle aggregation at quiescent air/oil-water interfaces, *Journal of Colloid and Interface Science* 553 (2019) 259–268.
126. Lagarde A., C. Jossierand, S. Protiere, The capillary interaction between pairs of granular rafts, *Soft Matter* 15(28) (2019) 5695–5702.
127. Nayak L., S. Mohanty, S.K. Nayak, A. Ramadoss, A review on inkjet printing of nanoparticle ink for flexible electronics, *Journal of Materials Chemistry C* 7(29) (2019) 8771–8795.
128. Rahman S.E., N. Laal-Dehghani, S. Barman, G.F. Christofer, Modifying interfacial interparticle forces to alter microstructure and viscoelasticity of densely packed particle laden interfaces, *Journal of Colloid and Interface Science* 536 (2019) 30–41.
129. Rahman S.E., N. Laal-Dehghani, G.F. Christofer, Interfacial viscoelasticity of self-assembled hydrophobic/hydrophilic particles at an air/water interface, *Langmuir* 35 (2019) 13116–13125.
130. Arai N., S. Watanabe, M.T. Miyahara, R. Yamamoto, U. Hampel, G. Lecrivain, Direct observation of the attachment behaviour of hydrophobic colloidal particles onto a bubble surface, *Soft Matter* 16(3) (2020) 695–702.
131. Bi W., E.K.L. Yeow, Single-particle tracking of the formation of a pseudoequilibrium state prior to charged microgel cluster formation at interfaces, *NPG Asia Materials* 12 (2020) 72.
132. Carrasco-Fadanelli V., R. Castillo, Measurement of the capillary interaction force between Janus colloidal particles trapped at a flat air/water interface, *Soft Matter* 16 (2020) 5910–5914.
133. Czajak A., A. Kannan, A. Wisniewskam P. Warszynski, G. Fuller, Viscoelastic interfaces comprising of cellulose nanocrystals and lauroyl ethyl arginate for enhanced foam stability, *Soft Matter* 16 (2020) 3981–3990.
134. Daradmare S., K.H. Choi, J. Kim, B.J. Park, Preparation of eco-friendly alginate-based Pickering stabilizers using a dual ultrasonic nebulizer spray method, *Journal of Industrial and Engineering Chemistry* 84 (2020) 96–105.
135. Dietrich K., Artificial microswimmers at liquid-liquid interfaces, PhD Thesis, ETH, Zurich, 2020.
136. Goggin G.M., H. Zhang, E.M. Miller, J.R. Samaniuk, Interference provide clarity: Direct observation of 2D materials at fluid-fluid interfaces, *ACS Nano* 14 (2020) 777–790.
137. Ha Eun L., C. Kyu Hwan, M. Xia, K. Dong Woo, P. Bum Jun, Interactions between polystyrene particles with diameters of several tens to hundreds of micrometers at the oil–water interface, *Journal of Colloid and Interface Science* 560 (2020) 838–848.
138. Ji X., X. Wang, Y. Zhang, D. Zang, Interfacial viscoelasticity and jamming of colloidal particles at fluid-fluid interfaces: A review, *Reports on Progress in Physics* 82 (2020) 126601.
139. Lagarde A., S. Protiere, probing the erosion and cohesion of a granular raft in motion, *Physical Review Fluids* 5 (2020) 044003.



140. Li H., S. Xue, Y. Shang, J. Li, X. Zeng, Interfacial viscoelasticity and jamming of colloidal particles at fluid-fluid interfaces: A review, *Reports on Progress in Physics* 83 (2020) 126601.
141. Martinez-Pedrero F., Static and dynamic behavior of magnetic particles at fluid interfaces, *Advances Colloid Interface Science* 284 (2020) 102233.
142. Mears R., I. Muntz, J.H.J. Thijssen, Surface pressure of liquid interfaces laden with micron-sized particles, *Soft Matter* 16 (2020) 9347–9356.
143. Perez-Juarez D., R. Sanchez, P. Diaz-Leyva, A. Kozina, Equilibrium clustering of colloidal particles at an oil/water interface due to competing long-range interactions, *Journal of Colloid and Interface Science* 571 (2020) 232–238.
144. Rojas-Martinez R.E., P. Diaz-Leyva, R. Sanchez, Dynamics of granular particles with interactions at a distance, *Journal of Statistical Mechanics: Theory and Experiment* 1 (2020) 103207.
145. Wang D., Y. Zhu, Y. Zhao, K. Koynov, H.-J. Butt, Brownian diffusion of individual Janus nanoparticles at water/oil interfaces, *ACS Nano* 14 (2020) 10095–10103.
146. Barakat J.M., T.M. Squires, Capillary force on an 'inert' colloid: A physical analogy to dielectrophoresis, *Soft Matter* 17 (2021) 3417–3442.
147. Correia E.L., N. Brown, S. Razavi, Janus particles at fluid interfaces: Stability and interfacial rheology, *Nanomaterials* 11 (2021) 1–29.
148. Fernandez-Rodriguez M.A., M.-N. Antonopoulou, L. Isa, Near-zero surface pressure assembly of rectangular lattices of microgels at fluid interfaces for colloidal lithography, *Soft Matter* 17 (2021) 335–340.
149. Jankowski M., M. Saedi, F. La Porta, O.V. Konovalov, I.M.N. Groot, Real-time multiscale monitoring and tailoring of graphene growth on liquid copper, *ACS Nano* 15 (2021) 9638–9648.
150. Joshi G., K. Okeyoshi, F.A.A. Yusof, T. Mitsumata, M.K. Okajima, T. Kaneko, Interfacial self-assembly of polysaccharide rods and platelets bridging over capillary lengthsm *Journal of Colloid and Interface Science* 591 (2021) 483–489.
151. Moses O.A., L. Gao, H. Zhao, Z. Yin, X. Yu, 2D materials inks toward smart flexible electronics, *Materials Today* 50 (2021) 116–148.
152. Poty M., N. Vandewalle, Equilibrium distance for the capillary interaction between floating obejcts, *Soft Matter* 17 (2021) 6718–6727.
153. Xie Q., J. Harting, Controllable capillary assembly of magnetic ellipsoidal Janus particles into tunable rings, chains and hexagonal lattices. *Advanced Materials* 33 (2021) 2006390.
154. Bohm S., E. Runge, Multiphysics simulation of fluid interface shapes in microfluidic systems driven by electrowettings of dielectrics, *Journal of Applied Physics* 132 (2022) Art. No. 224702.
155. Ching H., A. Mohraz, Bijel rheology reveals a 2D colloidal glass wrapped in 3D, *Soft Matter* 18 (2022) 4227–4238.
156. Dani A., Y. Mohsen, C. Maldareli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
157. Daradmare S., H.S. Lee, T.S. Seo, B.J. Park, A surfactant-free approach: Novel one-step ultrasonic nebulizer spray method to generate amphiphilic Janus particles, *Journal of Colloid and Interface Science* 627 (2022) 375–384.
158. Ibraheem A., Ultra-clean steel production: Behavior of micro-sized alumina inclusions at the Ar gas/liquid steel interface, PhD Thesis, Montan University, Leoben, 2022.
159. Jeong H.W., J.W. Park, H.M. Lee, K.H. Choi, S.J. Lee, J.W. Kim, B.J. Park, Retardation of capillary force between Janus particles at the oil-water interface, *Journal of Physical Chemistry Letters* 13 (2022) 10018–10024.
160. Huang J., B. Xu, Y. Gao, C. Jiang, X. Guan, Z. Li, J. Han, K. Yan Chung, Surface microstructural engineering of continuous fibers as one-dimensional multifunctional fiber materials for wearable electronic applications, *Chemical Engineering Journal* 446 (2022) 137192.
161. Ma X., N.N. Nguyen, A.V. Nguyen, A review on quantifying the influence of lateral capillary interactions on the particle floatability and stability of particle-laden interfaces, *Advances in Colloid and Interface Science* 307 (2022) 102731.
162. Qiao Y., X. Ma, Z. Liu, M.A. Manno, N.C. Keim, X. Cheng, Tuning the rheology and microstructure of particle-laden fluid interfaces with Janus particles, *Journal of Colloid and Interface Science* 618 (2022) 241–247.
163. Qiu Z., Malfliet A., Blanpain B., Guo M., Contact Line Undulation Induced Capillary Interaction Between Micron-Sized Ce<sub>2</sub>O<sub>3</sub> Inclusions at the Ar Gas/Liquid Steel Interface. In: Peng Z. et al. (eds) 12th International Symposium on High-Temperature Metallurgical Processing. The Minerals, Metals & Materials Series. Springer, 2022.

164. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Capillary interaction between arbitrarily-shaped inclusions at the gas/steel interface, *Metallurgical and Material Transactions B* 53 (2022) 1894–1903.
165. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Behavior of arbitrary shaped Ce<sub>2</sub>O<sub>3</sub> clusters at the Ar gas/liquid steel interfaces, *Metallurgical and Material Transactions B* 53 (2022) 3896–3908.
166. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Contact line undulation induced capillary interaction between micron-sized Ce<sub>2</sub>O<sub>3</sub> inclusions at the Ar gas/liquid steel interfaces, *Metallurgical and Material Transactions B* 53 (2022) 197–207.
167. Qui Z., A. Malfliet, B. Blanpain, M. Guo, A sub-particle model for capillary interaction between arbitrarily-shaped nonmetallic inclusions: Gravity induced, *Metallurgical and Material Transactions B* 53 (2022) 3505–3523.
168. Qui Z., A. Malfliet, B. Blanpain, M. Guo, A sub-particle model for capillary interaction between arbitrarily-shaped nonmetallic inclusions with an undulated contact line, *Metallurgical and Material Transactions B* 53 (2022) 3442–3458.
169. Smits J., R. Prasad Giri, C. Shen, D. Mendonca, B. Murphy, P. Huber, K. Rezwan, M. Maas, Assessment of nanoparticle immersion depth at liquid interfaces from chemically equivalent macroscopic surfaces, *Journal of Colloid and Interface Science* 611 (2022) 670–683.
170. Wang W., G. Gardi, P. Malgaretti, V. Kishore, L. Koens, D. Son, H. Gilbert, Z. Wu, P.H.E. Laura, C. Holm, M. Sitti, Order and information in the patterns of spinning magnetic micro-disk at the air-water interface, *Science Advances: Condensed Matter Physics* 8 (2022) eabk0685.
171. Liu Z., Y. Wang, X. Xiong, Z. Ye, Q. Long, J. Wang, T. Li, C. Liu, Microstructure and ablation behavior of C/C-SiC-(Zr<sub>x</sub>Hf<sub>1-x</sub>)C composites prepared by reactive melt infiltration method, *Materials* 16 (2023) 2120.
172. Yang X., H. Jin, Y. Yao, S. Lin, Construction of 3D ordered honeycomb films with controllable pores at efficient catalytic supports, *Advanced Functional Materials* 32 (2022) 2202298.
173. Correia E.L., H.H. Winter, S. Razavi, Two-dimensional glass transition-like behavior of Janus particle-laden interface, *Rheologica Acta* 62 (2023) 239–251.
174. Kato A.N., Y. Jiang, W. Chen, R. Seto, T. Li, How surface roughness affects the interparticle interactions at a liquid interface, *Journal of Colloid and Interface Science* 641 (2023) 492–498.
175. Liu Z., Y. Wang, X. Xiong, H. Zhang, Z. Ye, Q. Long, Q. Wen, J. Wang, T. Li, C. Li, Structural optimization and air-plasma ablation behaviors of C/C-SiC-(Zr<sub>x</sub>Hf<sub>1-x</sub>)C composites prepared by reactive melt infiltration method, *Corrosion Science* 222 (2023) 111408.
176. Metzmacher J., Assembly and manipulation of floating components at liquid interface, PhD Thesis, Liege University, 2023.
177. Ming L., H. Wu, A. Liu, A. Naeem, Z. Dong, Q. Fan, G. Zhang, H. Liu, Z. Li, Evolution and critical roles of particle properties in Pickering emulsion: A review, *Journal of Molecular Liquids* 388 (2023) 122775.
178. Mukherjee F., A. Shi, X. Wang, F. You, N.L. Abbott, Liquid Crystals as Multifunctional Interfaces for Trapping and Characterizing Colloidal Microplastics, *Small* 19 (2023) 2207802.
179. Oza A.U., G. Pucci, I. Ho, Theoretical modeling of capillary surfer interactions on a vibrating fluid bath, *Physical Review Fluids* 8 (2023) 114001.
180. Pachua L., R. Nath, Recent Developments in Shape-Controlled Synthesis of Cellulose Nano-crystals, *Mini-Reviews in Medical Chemistry* 23 (2023) 1360–1375.
181. Protiere S., Particle rafts and armored droplets, *Annual Review of Fluid Mechanics* 55 (2023) 459–480.
182. Rahman Md A., P.J. Beltramo, Rough colloids at fluid interfaces: from fundamental science to applications, *Frontiers in Physics* 11 (2023) 1248706.
183. Song Q., C.E. Ogiemwonyi, M. Zuo, H. Schonherr, Investigation of the Orientation and Assembly of Functionalized Microcubes at the Oil-Water Interface, *Langmuir* 39 (2023) 7388–7395.
184. Wolvinton E., L. Yeager, Y. Gao, C.J. Zimmermann, D.W.M. Marr, Paddlebots: Translation of Rotating Colloidal Assemblies near an Air/Water Interface, *Langmuir* 39 (2023) 7846–7851.
185. Yu H., Y. Fu, X. Zhang, L. Chen, D. Qi, J. Shi, W. Wang, Programmable active matter across scale, *Programmable Materials* 1 (2023) e7.
186. Zuo M., O. Song, N. Hajiyeva, H. Lerch, J. Bolten, U. Plachetka, M.C. Lemme, H. Schonherr, Effect of Particle Size on the Orientation and Order of Assemblies of Functionalized Microscale Cubes Formed at the Water/Air Interface, *Langmuir* 29 (2023) 8658–8667.
187. Correia E.L., N. Brown, D.V. Papavassiliou, S. Razavi, Influence of Surface Roughness on Interfacial Properties of Particle Networks, *Colloids and Interfaces* 8 (2024) 17.
188. Huang J., Study of surface microstructure engineering of one-dimensional advanced materials with customizable functionalities, PhD Thesis, Hong Kong Polytechnic University, 2024.
189. Qiu Z., B. Blanpain, M. Guo, Lateral Capillary Interaction Between Hexagonal or Triangular-Shaped TiN Inclusions at the Gas/Steel Interface, *Steel Research International* (2024).

- 116 P.A. Kralchevsky, K.D. Danov, V.L. Kolev, T.D. Gurkov, M.L. Temelska, G. Brenn, Detachment of oil drops from solid surfaces in surfactant solutions: molecular mechanism at a moving contact line, *Ind. Eng. Chem. Res.* **44** (2005) 1309–1321. (брой: 58)
1. Iliev S., N. Pesheva, On the quasi-static relaxation of a drop in a combined model of dissipation, *Langmuir* **22**(4) (2006) 1580–1585.
  2. Reynaert S., P. Moldenaers, J. Vermant, Control over colloidal aggregation in monolayers of latex particles at the oil–water interface, *Langmuir* **22**(11) (2006) 4936–4945.
  3. Detry J.G., P.G. Rouxhet, L. Boulange–Petermann, C. Deroanne, M. Sindic, Cleanability assessment of model solid surfaces with a radial–flow cell, *Colloids Surfaces A* **302**(1–3) (2007) 540–548.
  4. Muherei M.A., R. Junin, Potential of surfactant washing to solve drilling waste environmental problems offshore, *Emirates Journal for Engineering Research* **12**(2) (2007) 1–10.
  5. Chengara A.W., A.D. Nikolov, D.T. Wasan, New paradigms for spreading of colloidal fluids on solid surfaces, *Advances in Polymer Science* **218**(1) (2008) 117–141.
  6. Causse J., S. Faure, Acidic surfactant solutions for tributylphosphate removal in nuclear fuel reprocessing plants: A formulation study, *Chemical Engineering Journal* **147**(2–3) (2009) 180–187.
  7. Fetzer R., M. Ramiasa, J. Ralston, Dynamics of liquid–liquid displacement, *Langmuir* **25**(14) (2009) 8069–8074.
  8. Илиев, Станимир Димитров, Статика и динамика при малки капилярни числа на течности, частично омокрящи твърдо тяло: вариационен подход, Дисертация за научната степен “доктор на науките”, Ин-т по Механика, БАН, София, 2009 г.
  9. Ren W.Q., D. Hu, E. Weinan, Continuum models for the contact line problem, *Physics of Fluids* **22**(10) (2010) Art. 102103.
  10. Chen P., Surfactant-enhanced spontaneous imbibition process in highly fractured carbonate reservoirs, PhD Thesis, University of Texas, Austin, 2011.
  11. Kondiparty K., A. Nikolov, D. Wasan, Wetting and spreading of nanofluids on solid surfaces driven by the structural disjoining pressure: Statics analysis and experiments, *Langmuir* **27**(7) (2011) 3324–3335.
  12. Piroird K., Special dynamics of non-wetting drops, PhD Thesis, Soft Condensed Matter, Ecole Polytechnique, French, 2011.
  13. Ramiasa M., J. Ralston, R. Fetzer, R. Sedev, Contact line friction in liquid-liquid displacement on hydrophobic surfaces, *Journal of Physical Chemistry C* **115**(50) (2011) 24975–24986.
  14. Sharma G., K.K. Mohanty, Wettability alteration in high temperature and high salinity carbonate reservoirs, *Proceedings – SPE Annual Thechnical Conference and Exhibition* **5** (2011) 4092–4106.
  15. Wasan D., A. Nikolov, K. Kondiparty, The wetting and spreading of nanofluids on solids: Role of the structural disjoining pressure, *Current Opinion in Colloid and Interface Science* **16**(4) (2011) 344–349.
  16. Liu Q., S. Yuan, H. Yan, X. Zhao, Mechanics of oil detachment from a silica surface in aqueous surfactant solutions: Molecular dynamics simulations, *Journal of Physical Chemistry B* **116**(9) (2012) 2867–2875.
  17. Liu K.-L., K. Kondiparty, A.D. Nikolov, D. Wasan, Dynamic spreading of nanofluids on solids: II. Modeling, *Langmuir* **28**(47) (2012) 16274–16284.
  18. Agogo H.O., Mojado y avaporacion de disoluciones de tensioactivos y nanoemulsiones, PhD Thesis, Universidad Complutense de Madrid, Facultad de Ciencias quimica, 2013.
  19. Chini S.F., V. Bertola, A. Amirfazli, A methodology ot determine the adhesion force of arbitrarily shaped drops with convex contact lines, *Colloid Surfaces A* **436** (2013) 425–433.
  20. Li J., Z.-R. Song, Q. Meng, Application of rhamnolipid as laundry detergent, *China Sirfactant Detergents and Cosmetics* **43**(5) (2013).
  21. Radiom M., C. Yang, W.K. Chan, Dynamic contact angle of water-based titanium oxide nanofluid, *Nanoscale Research Letters* **8**(1) (2013) 1–9.
  22. Wang F.-C., H.-A. Wu, Enhanced oil droplet detachment from solid surfaces in charged nanoparticle suspensions, *Soft Matter* **9**(33) (2013) 7974–7980.
  23. Wu S., A. Nikolov, D. Wasan, Cleansing dynamics of oily soil using nanofluids, *J. Colloid Interface Sci.* **396** (2013) 293–306.
  24. Yesudhasan P., M. Al-Busaidi, W.A.K. Al-Rahbi, A.S. Al-Waili, A.K. Al-Nakhaili, N.A. Al-Mazrooei, S.H. Al-Habsi, Distribution patterns of toxic metals in the marine oyster *Saccostrea cucullata* from the Arabian See in Oman: spatial, temporal, and size variations, *Springer Plus* **2**(1) (2013) 1–11.
  25. Lin F., L. He, B. Primkulov, Z. Xu, Dewetting dynamics of a solid microsphere by emulsion drops, *J. Phys. Chem. C* **118**(25) (2014) 13552–13562.
  26. Mercade-Prieto R., S. Bakalis, Methodological study on the removal of solid oil and fat strains from cotton fabrics using abrasion, *Textile Research Journal* **84**(1) (2014) 52–65.
  27. Ramiasa M., J. Ralston, R. Fetzer, R. Sedev, The influence of topography on dynamic wetting, *Advances in Colloid Interface Science* **206** (2014) 275–293.

28. Wasan D., A. Nikolov, G. Sethumadhavan, Role of structural forces in cleaning soiled surfaces, in: *Oil Spill Remediation: Colloid Chemistry-Based Principles and Solutions*, Wiley, 2014, Ch. 16.
29. Lamorgese A., R. Mauri, On the buoyancy-driven detachment of a wall-bound pendant drop: Results of phase-field simulations, *Chemical Engineering Transactions* 43 (2015) 1849–1854.
30. Li X., Q. Xue, T. Wu, Y. Jin, C. Ling, S. Lu, Oil detachment from silica surface modified by carboxy groups in aqueous cetyltriethylammonium bromide solution, *Applied Surface Science* 353 (2015) 1103–1111.
31. Yulianti K., A.Y. Gunawan, E. Soewono, I. Mucharam, A new approach for modeling of the surfactant effect on a sessile oil drop motion, *AIP Conference Proceedings* 1677 (2015) 030009.
32. Jones S., E. Rio, C. Cazeneuve, L. Nicolas-Morgantini, F. Restagno, G.S. Luengo, Tribological influence of a liquid meniscus in human sebum cleaning, *Colloids and Surfaces A* 498 (2016) 268–275.
33. Lamorgese A., R. Mauri, Critical conditions for the buoyancy-driven detachment of a wall-bound pendant drop, *Physics of Fluids* 28(3) (2016) 032103.
34. Lim S., H. Zhang, P. Wu, A. Nikolov, D.T. Wasan, The dynamic spreading of nanofluids on solid surfaces – Role of the nanofilm structural disjoining pressure, *Journal of Colloid and Interface Science* 470 (2016) 22–30.
35. Yuan S., S. Wang, X. Wang, M. Guo, Y. Wang, D. Wang, Molecular dynamics simulation of oil detachment from calcite surface in aqueous surfactant solution, *Computational and Theoretical Chemistry* 1092 (2016) 82–89.
36. Zheng W.-X., C.-G. Sun, T. Xiong, X.-M. Lu, B.-F. Bai, Effects of surface roughness on oil-water-solid three-phase contact line, *Journal of Engineering Thermodynamics* 37(9) (2016) 1901–1905.
37. Guthausen G., Diffusometric assessment of food double emulsions, *Modern Magnetic Resonance* 2017 1–13.
38. Lim S., Hard surface cleaning: A novel approach using wetting nanofluids, PhD Thesis, Illinois Institute of Technology, Chikago, 2017.
39. Lim S., D. Wasan, Structural disjoining pressure induced solid particle removal from solid substrates using nanofluids, *Journal of Colloid and Interface Science* 500 (2017) 96–104.
40. Frank F., C. Liu, A. Scanziani, F.O. Alpak, B. Riviere, An energy-based equilibrium contact angle boundary condition on jagged surfaces for phase-field methods, *Journal of Colloid and Interface Science* 523 (2018) 282–291.
41. Shang X., Z. Luo, E.Y. Gatapova, O.A. Kabov, B. Bai, GNBC-based front-tracking method for the three-dimensional simulation of droplet motion on a solid surface, *Computers and Fluids* 172 (2018) 181–195.
42. Wu P., A.D. Nikolov, D.T. Wasan, Two-phase displacement dynamics in capillary-nanofluid reduces the frictional coefficient, *Journal of Colloid and Interface Science* 532 (2018) 153–160.
43. Yulianti K., R. Marwati, Surfactant effect on contact line alteration of a liquid drop in a capillary tube, *Journal of Physics: Conference Series* 1013 (2018) 012148.
44. Nikolov A., P. Wu, D. Wasan, Novel approach for calculating the equilibrium foam nanofilm-meniscus contact angle and the film free energy, *Journal of Colloid and Interface Science* 557 (2019) 591–597.
45. Stamatiti-Scarpone A., E.J. Acosta, Solid-liquid-liquid wettability of surfactant-oil-water systems and its prediction around the phase inversion point, *Langmuir* 35 (2019) 4305–4318.
46. Walker C., Rational surface nanoengineering for phase change and separation applications: From desublimation control to sunlight-driven antifogging, PhD Thesis, ETH Zurich, 2019.
47. Zheng W., C. Sun, B. Wen, B. Bai, Moving mechanism of the three-phase contact line in a water-decane-silica system, *RSC Advances* 9 (2019) 3092–3101.
48. Jha N.K., M. Lebedev, S. Iglauer, M. Ali, H. Roshan, A. Barifcani, J.S. Sangwai, M. Sarmadivaleh, Pore scale investigation of low salinity surfactant nanofluid injection into oil saturated sandstone via X-ray micro-tomography, *Journal of Colloid and Interface Science* 562 (2020) 370–380.
49. Kumar A., M.R. Gunjan, K. Jakhar, A. Thakur, R. Raj, Unified framework for mapping shape and stability of pendant drops including the effect of contact angle hysteresis, *Colloids Surfaces A* (2020) 124619.
50. Kumar A., M.R. Gunjan, R. Raj, On the validity of force balance models for predicting gravity-unduced detachment of pendant drops and bubbles, *Physics of Fluids* 32 (2020) 101703.
51. Chen C., D. Li, N. Sun, X. Ma, G. Xiao, J. Zhou, Oil recovery from drilling cuttings by biosurfactant from kitchen waste oil, *Energy Sources A* 43 (2021) 314–325.
52. Butt H.-J., J. Liu, K. Koynov, B. Straub, C. Hinduja, I. Roismann, R. Berger, X. Li, D. Vollmer, W. Steffen, M. Kappl, Contact angle hysteresis, *Current Opinion in Colloid and Interface Science* 59 (2022) 101574.
53. Chueh C.-C., R. Mauri, A. Bertei, The detachment of a wall-bound pendant drop suspended in a sheared fluid and subjected to an external force field, *Physics of Fluids* 34 (2022) 073306.



54. Deng D., H. Dong, Y. Liang, Z. Zhao, Modeling of the deformation and breakup of a surfactant-coated droplet on a roughness solid surface in shear flow, *AIP Advances* 12 (2022) 065313.
55. Fu L., F. Gu, K. Liao, X. Weng, W. Huang, X. Li, Z. Ren, L. Xie, Application of molecular simulation in tertiary oil recovery: A systematic review, *Journal of Petroleum Science and Engineering* 212 (2022) 110196.
56. Fu L., F. Gu, K. Liao, X. Weng, L. Jiang, X. Li, W. Huang, M. Shao, Molecular dynamics simulation of enhancing surfactant flooding performance by using SiO<sub>2</sub> nanoparticles, *Journal of Molecular Liquids* 367 (2022) 120404.
57. Shang X., Z. Luo, G. Hu, B. Bai, Role of surfactant-induced Marangoni effects in droplet dynamics on a solid surface in shear flow, *Colloids and Surfaces A* 654 (2022) 130142.
58. Jiang B., H. Hou, Q. Liu, H. Wang, Y. Li, B. Yang, C. Su, M. Wu, Detachment of Dodecane from Silica Surfaces with Variable Surface Chemistry Studied Using Molecular Dynamics Simulation, *Molecules* 28 (2023) 4765.

**115 P.S. Denkova, S. Tcholakova, N.D. Denkov, K.D. Danov, B. Campbell, C. Shawl, D. Kim, Evaluation of the precision of drop-size determination in oil/water emulsions by low resolution NMR spectroscopy, *Langmuir* 20 (2004) 11402–11413. (брой: 76)**

1. Wolf G., Diffusionsuntersuchungen an (polymer-modifizierten) Mikroemulsionen mittels Feldgradientenimpuls-NMR-Spektroskopie, PhD Thesis, University of Potsdam, Germany, 2005.
2. Guillemin, S. "Extraction aqueuse d'huile de colza assistée par hydrolyse enzymatique: optimisation de la réaction, caractérisation de l'émulsion et étude de procédés de déstabilisation." PhD Thesis, 2006, l'Institut National Polytechnique de Lorraine, France.
3. Monduzzi M., S. Murgia, NMR of liquid crystals and micellar solutions, *Nuclear Magnetic Resonance* 35 (2006) 533–554.
4. Pena A.A., G.J. Hirasaki, In *Emulsion and Emulsion Stability*, Second Ed.; Sjöblom, J; Ed., 2006, CRC Press, Chapter 8, pp. 283–310.
5. Day L., M. Xu, P. Hoobin, I. Burgar, M.A. Augustin, Characterisation of fish oil emulsions stabilised by sodium caseinate, *Food Chemistry* 105(2) (2007) 469–479.
6. Flaum M., Fluid and rock characterization using new NMR diffusion-editing pulse sequences and two dimensional diffusivity-T2 maps, PhD Thesis, Rice University, 2007.
7. Johns M.L., K.G. Hollingsworth, Characterisation of emulsion systems using NMR and MRI, *Progress in Nuclear Magnetic Resonance Spectroscopy* 50(2–3) (2007) 51–70.
8. van Duynhoven J.P.M., B. Maillet, J. Schell, M. Tronquet, C.-J.W. Goudappel, E. Trezza, A. Bulbarelo, D. van Dusschoten, A rapid benchtop NMR method for determination of droplet size distributions in food emulsions, *European Journal of Lipid Science and Technology* 109(11) (2007) 1095–1103.
9. Maass S., S. Horn, M. Kraume, Measurement techniques for drop size distribution, *Szasopismo Techniczne. Mechanika* 105(5) (2008) 219–230.
10. Metz H., K. Mader, Benchtop-NMR and MRI-A new analytical tool in drug delivery research, *International Journal of Pharmaceutics* 364(2) (2008) 170–175.
11. Gabriele D., M. Migliori, R. Di Sanzo, C.O. Rossi, S.A. Ruffolo, B. De Cindio, Characterisation of dairy emulsions by NMR and rheological techniques, *Food Hydrocolloids* 23(3) (2009) 619–628.
12. Johns M.L., NMR studies of emulsions, *Current Opinion in Colloid and Interface Science* 14(3) (2009) 178–183.
13. Maass S., J. Grunig, M. Kraume, Measurement techniques for drop size distributions in stirred liquid-liquid systems, *Chemical and Process Engineering* 30(4) (2009) 635–651.
14. Mariette F., Investigations of food colloids by NMR and MRI, *Current Opinion in Colloid and Interface Science* 14(3) (2009) 203–211.
15. Opedal N.T., G. Sorland, J. Sjöblom, Methods for droplet size distribution determination of water-in-oil emulsions using low-field NMR, *Diffusion-Fundamentals.org* 9 (2009) 1–29.
16. Voda M.A., J. van Duynhoven, Characterization of food emulsions by PFG NMR, *Trends in Food Science and Technology* 20 (11–12) (2009) 533–543.
17. Mine Y., M. Yang, Functional properties of egg components in food systems, *Handbook of Poultry Science and Technology* 1 (2010) 579–630.
18. Romoscanu A.I., A. Fenollosa, S. Acquistapace, D. Gunes, T. Martins-Deuchande, P. Clausen, R. Mezzenga, E. Hughes, Structure, diffusion, and permeability of protein-stabilized monodispersed oil in water emulsions and their gels: A self-diffusion NMR study, *Langmuir* 26(9) (2010) 6184–6192.
19. Kashaev R.S.-H., N.R. Faskhiev, Nuclear (Proton) Magnetic Resonance Relaxometry Study of the Effect of Rotating Magnetic Field on the Emulsion Structure, *Applied Magnetic Resonance* 41(1) (2011) 31–43.

20. Opedal N.T., NMR as a tool to follow destabilization of water-in-oil emulsions, PhD Thesis, Norwegian University of Science and Technology, 2011.
21. Popko A., Programming of pressure emulsification process based on Matlab Mathworks applications, *Postepy Nauki i Techniki* 10 (2011) 151–158.
22. Simon S., X. Pierrard. J. Sjoblom, G.H. Sorland, Separation profile of model water-in-oil emulsions followed by nuclear magnetic resonance (NMR) measurements: Application range and comparison with a multiple-light scattering based apparatus, *J. Colloid Interface Sci.* 356(1) (2011) 352–361.
23. Grimes B.A., C.A. Dorao, N.V.D.T. Dorao, I. Kralova, G.H. Sorland, J. Sjoblom, Population balance model for batch gravity separation of crude oil and water emulsions: Part II. Comparison to experimental crude oil separation data, *Journal of Dispersion Science and Technology* 33(4) (2012) 591–598.
24. Lingwood I.A., T.C. Chandrasekera, J. Kolz, E.O. Fridjonsson, M.L. Johns, emulsion droplet sizing using low-field NMR with chemical shift resolution and the block gradient pulse method, *Journal of Magnetic Resonance* 214 (2012) 281–288.
25. Abidin M.I.I.Z., A.A.A. Raman, M.I.M. Nor, Review on measurement techniques for drop size distribution in a stirred vessel, *Industrial and Engineering Chemistry Research* 52(46) (2013) 16085–16094.
26. Carroll N.J., P.F. Crowder, S. Pylypenko, W. Patterson, D.R. Ratnaweera, D. Perahia, P. Atanassov, D.N. Petsev, Microfluidic synthesis of monodisperse nanoporous oxide particles and control of hierarchical pore structure, *ACS Applied Materials and Interfaces* 5(9) (2013) 3524–3529.
27. Gavlighi A., J.D. Mikkelsen, A.S. Meyer, Tragacanth Gum: Structural Composition, Natural Functionality and Enzymatic Conversion as Source of Potential Prebiotic Activity. Kgs. Lyngby: Technical University of Denmark. 2013.
28. Kashaev R.S.H., Oil disperse systems study using nuclear magnetic resonance relaxometry (NMRR), *Advances in Energy Research* 16 (2013) 91–164.
29. Scartlien R., E. Sollum, H. Schumann, Droplet size distributions in turbulent emulsions: breakup criteria and surfactant effects from direct numerical simulations, *Journal of Chemical Physics* 139(17) (2013) 174901.
30. Barrabino A., S. Kelesoglu, G.H. Sorland, S. Simon, J. Sjoblom, Phase inversion in emulsion studied by low field NMR, *Colloid Surfaces A* 443 (2014) 368–376.
31. Cimpeanu R., D.T. Papageorgio, Electrohydrodynamically induced pumping and mixing of multifluid systems in microchannels, 4th Micro and Nano Flows Conference, University College London, UK, 7-10 September 2014.
32. Fridjonsson E.O., B.F. Graham, M. Akhflash, E.F. May, M.L. Johns, Optimized droplet sizing of water-in-crude oil emulsions using nuclear magnetic resonance, *Energy and Fuels* 28(3) (2014) 1756–1764.
33. Kaltsa O., I. Gatsi, S. Yanniotis, I. Mandala, Influence of ultrasonication parameters on physical characteristics of olive oil model emulsions containing xanthan, *Food and Bioprocess Technology* 7(7) (2014) 2038–2049.
34. Kirtil E., M.H. Oztup, liposomes as encapsulation agent for food applications: Structure, characterization, and stability, *Academic Food Journal* 12(4) (2014) 41–57.
35. Paulsen J.L., Y.-Q. Song, Two-dimensional diffusion time correlation experiment using a single direction gradient, *Journal of Magnetic Resonance* 244 (2014) 6–11.
36. Proverbio A., B.M. Siow, M.F. Lythgoe, D.C. Alexander, A.P. Gibson, Multimodality characterization of microstructure by the combination of diffusion NMR and time-domain diffuse optical data, *Physics in Medicine and Biology* 59(11) (2014) 2639–2658.
37. Proverbio A., B.M. Siow, D.C. Alexander, J.C. Hebden, A. Gibson, combined diffuse scatter spectroscopy and diffusion NMR for quantitative characterization of microstructure, *Biomedical Optics*, Miami, Florida, 2014.
38. Sandnes R., S. Simon, J. Sjoblom, G.H. Sorland, Optimization and validation of low field nuclear magnetic resonance sequences to determine low water contents and water profiles in W/O emulsions, *Colloid Surfaces A* 441 (2014) 441–448.
39. Vermeir L., M. Balcaen, P. Sabatino, K. Dewettinck, P. Van der Meeren, Influence of molecular exchange on the enclosed water volume fraction of W/O/W double emulsions as determined by low-resolution NMR diffusometry and T<sub>2</sub>-relaxometry, *Colloid Surfaces A* 456(1) (2014) 129–138.
40. Bahram-Parvar M., A review of modern experimental technique for measurements of ice cream characteristics, *Food Chemistry* 188 (2015) 625–631.
41. Cimpeanu R., Modelling, analysis and simulation of incompressible multi-fluid flow, PhD Thesis, Imperial College London, 2015.
42. Cimpeanu R., D.T. Papageorgiou, Electrostatically induced mixing in controlled stratified multi-fluid systems, *International Journal of Multiphase Flow* 75 (2015) 194–204.

43. Ghahraee M., The effect of length scale on flow properties of micro, nano and macro-emulsions, PhD Thesis, University of Wellington, NZ, 2015.
44. Ng S.M., Portable NMR-based sensors in medical diagnostic, *Application of NMR Spectroscopy* 2(23) (2015) 121–146.
45. Patel A.R., P. Dumlu, L. Vermeir, B. Lewille, A. Lesaffer, K. Dewettinck, Rheological characterization of gel-in-oil-in-gel structured emulsions, *Food Hydrocolloids* 46 (2015) 84–92.
46. Schumann H., M. Khatibi, M. Tukun, B. Pettersen, Z. Yang, O.J. Nydal, Droplet size measurements in oil-water dispersions: A comparison study using FBRM and PVM, *Journal of Dispersion Science and Technology* 36(10) (2015) 1432–1443.
47. Zhang H. L. Zhang, X. Sun, S. Xie, Applications of low-field pulsed nuclear magnetic resonance technique in lipid and food, *Applications of NMR Spectroscopy* 1 (2015) 3–56.
48. Kwamman Y., B. Mahisanunt, S. Matsukawa, Evaluation of electrostatic interaction between lysolecithin and chitosan in two-layer tuna oil emulsions by NMR spectroscopy, *Food Biophysics* 11(2) (2016) 165–175.
49. Song R., Y.-Q. Song, M. Vembusubramanian, J.L. Paulsen, The robust identification of exchange from T2-T2 time-domain features, *Journal of Magnetic Resonance* 256 (2016) 164–171.
50. Vermeir L., P. Sabatino, M. Balcaen, A. Declerc, K. Dewettinck, J.C. Martins, P. Van der Meeren, Effect of molecular exchange on water droplet size analysis in W/O emulsions as determined by diffusion NMR, *Journal of Colloid and Interface Science* 463 (2016) 128–136.
51. Vermeir L., P. Sabatino, M. Balcaen, A. Declerc, K. Dewettinck, J.C. Martins, G. Guthausen, P. Van der Meeren, Effect of molecular exchange on water droplet size analysis as determined by diffusion NMR: The W/O/W double emulsion case, *Journal of Colloid and Interface Science* 475 (2016) 57–65.
52. Wang C., H. Fang, Q. Gong, Z. Xu, Z. Liu, L. Zhang, S. Zhou, Roles of catanionic surfactant mixtures on the stability of foams in the presence of oil, *Energy and Fuels* 30(8) (2016) 6355–6364.
53. Linke A., T. Anzmann, J. Weiss, R. Kohlus, Advanced characterization of encapsulated lipid powders regarding microstructure by time domain-nuclear magnetic resonance, *Journal of Microencapsulation* 34(2) (2017) 140–150.
54. Masumdar M. S. Roy, Gravity induced coalescence in emulsions with high volume fractions of dispersed phase in the presence of surfactants, *AIChE Journal* 63(10) (2017) 4379–4389.
55. Guthausen G., Diffusometric assessment of food double emulsions, *Modern Magnetic Resonance* (2018) 1417–1429.
56. Hohl L., R.P. Panckow, J.M. Schulz, L. Bohm, M. Kraume, Description of disperse multiphase processes: Quo vadis? *Chemie-Ingenieur-Technik* 90 (2018) 1709–1726.
57. Koshiba Y., T. Tomita, H. Ohtani, Oil-in-water microemulsion containing ferrocene: A new fire suppressant, *Fire Safety Journal* 98 (2018) 82–89.
58. Norouzi H., M. Madhi, M. Seyyedi, M. Rezaee, Foam propagation and oil recovery potential at large distances from an injection well, *Chemical engineering Research and Design* 135 (2018) 67–77.
59. D'Agostino C., V. Preziosi, A. Khan, M. Mantle, E. Fridjonsson, S. Guido, Microstructure evolution during nano-emulsification by NMR and microscopy, *Journal of Colloid and Interface Science* 551 (2019) 138–146.
60. Mitchell J., Magnetic resonance diffusion measurements of droplet size in drilling fluid emulsions on a benchtop instrument, *Colloid Surfaces A* 564 (2019) 69–77.
61. Rudszuck T., E. Forster, H. Nirschl, G. Guthausen, Low-field NMR for quality control on oils, *Magnetic Resonance in Chemistry* 57 (2019) 777–793.
62. Azizi A., M.L. Johns, Z.M. Aman, N.N.A. Ling, H. Husin, Effect of hydrate anti-agglomerants on water-in-crude oil emulsion stability, *Journal of Petroleum Exploration and Production Technology* 10 (2020) 139–148.
63. Bielas R., Z. Rozynek, T. Hornowski, A. Josefczak, Ultrasound control of oil-in-oil Pickering emulsions preparation, *Journal of Physics D* 53 (2020) 085301.
64. Hakansson A., Experimental methods for measuring the breakup frequency in turbulent emulsification: A critical review, *ChemEngineering* 52(4) (2020) 1–34.
65. Hernandez C., P. Jian, H. Sharma, S. Lam, S. Sonti, Investigating the effect of transcutool on the physical properties of an O/W cream, *Journal of Dispersion Science and Technology* 41 (2020) 600–606.
66. Mirshekari F., L. Pakzad, P. Fatehi, An investigation on the stability of the hazelnut oil-water emulsion, *Journal of Dispersion Science and Technology* 41 (2020) 929–940.
67. Munoz S.C.M., Understanding submicron foulants in produced water and their interactions with ceramic materials, PhD Thesis, King Abdula University, 2020.

68. Gong Z., M.H. Tootoonchi, C.A. Fraker, J.D. Walls, Determining chemical exchange rate constants in nanoemulsions using nuclear magnetic resonance, *Physical Chemistry Chemical Physics* 23 (2021) 19244–19254.
  69. Medina S.C., D.H. Anjum, A.R. Behzad, A. Tabatabai, T. Leiknes, Microscopy techniques applied to submicron characterization of oilfield produced water, *Journal of Petroleum Science and Engineering* 206 (2021) 108930.
  70. Muriel D.F., J. Katz, Time evolution and effect of dispersant on the morphology and viscosity of water-in-crude-oil emulsions, *Langmuir* 37 (2021) 1725–1742.
  71. Hammami M.A., M.Y. Kanj, E.P. Giannelis, Monitoring the early stages of formation of oil-water emulsions using flow cytometry, *Langmuir* 38 (2022) 62–71.
  72. Sousa A.M., H.A. Matos, M.J. Pereira, Properties of crude oil-in-water and water-in-crude oil emulsions: A critical review, *Industrial and Engineering Chemistry Research* 61 (2022) 1–20.
  73. Ansaribaranghan N., L. Romero-Zeron, F. Marica, B.J. Balcom, Measurement of crude oil emulsion instability using magnetic resonance and magnetic resonance imaging, *Colloids and Surfaces A* 666 (2023) 131330.
  74. D'Agustino C., V. Preziosi, G. Caiazza, M.V. Maiorino, E. Fridjonsson, S. Guido, Effect of surfactant concentration on diffusion and microstructure in water-in-oil emulsions studied by low-field benchtop NMR and optical microscopy, *Soft Matter* 19 (2023) 3104–3112.
  75. Azizi A.B., Emulsion and hydrate stability studies via droplet size distribution measurements, PhD Thesis, University of Western Australia, 2023.
  76. Badruddoza A.Z.M., T. Yeoh, J.C. Shah, T. Walsh, Assessing and Predicting Physical Stability of Emulsion-Based Topical Semisolid Products: A Review, *Journal of Pharmaceutical Sciences* 112 (2023) 1772–1793.
- 114 K.D. Danov, P.A. Kralchevsky, M.P. Boneva, Electrodipping force acting on solid particles at a fluid interface, *Langmuir* 20 (2004) 6139–6151. (брой: 105)**
1. Binks B.P., J.H. Clint, G. Mackenzie, C. Simcock, C.P. Whitby, Naturally occurring spore particles at planar fluid interfaces and in emulsions, *Langmuir* 21(18) (2005) 8161–8167.
  2. Dominguez A., M. Oettel, S. Dietrich, Capillary-induced interactions between colloids at an interface, *J. Physics: Condensed Matter* 17(45) (2005) S3387–S3392.
  3. Helseth L.E., R.M. Muruganathan, Y. Zhang, T.M. Fischer, Colloidal rings in a liquid mixture, *Langmuir* 21(16) (2005) 7271–7275.
  4. Horozov T.S., B.P. Binks, Particle behaviour at horizontal and vertical fluid interfaces, *Colloids Surfaces A* 267(1–3) (2005) 64–73.
  5. Horozov T.S., R. Aveyard, B.P. Binks, J.H. Clint, Structure and stability of silica particle monolayers at horizontal and vertical octane–water interfaces, *Langmuir* 21(16) (2005) 7405–7412.
  6. Horozov T.S., R. Aveyard, J.H. Clint, B. Neumann, Particle zips: vertical emulsion films with particle monolayers at their surfaces, *Langmuir* 21(6) (2005) 2330–2341.
  7. Kaptay G., Classification and general derivation of interfacial forces, acting on phases, situated in the bulk, or at the interface of other phases, *J. Materials Science* 40(9–10) (2005) 2125–2131.
  8. Loudet J.C., A.M. Alsayed, J. Zhang, A.G. Yodh, Capillary interactions between anisotropic colloidal particles, *Phys. Rev. Lett.* 94(1) (2005) 1–4.
  9. Oettel M., A. Dominguez, S. Dietrich, Attractions between charged colloids at water interfaces, *J. Physics: Condens. Matter* 17(32) (2005) L337–L342.
  10. Oettel M., A. Dominguez, S. Dietrich, Effective capillary interaction of spherical particles at fluid interfaces, *Phys. Rev. E* 71(5) (2005) 1–16.
  11. Vassileva N.D., D. van den Ende, F. Mugele, J. Mellema, Capillary forces between spherical particles floating at a liquid–liquid interface, *Langmuir* 21(24) (2005) 11190–11200.
  12. Würger A., L. Foret, Capillary attraction of colloidal particles at an aqueous interface, *J. Phys. Chem. B* 109(34) (2005) 16435–16438.
  13. Agod Attila, P. Szerkezetkepzodes modellezese nanoreszecskek Langmuir–filmjeiben, Ph.D. Thesis, Dept. Phys. Chem., Budapest University of Technology & Economics, Hungary, 2006.
  14. Bergström L., Structure and formation of particle monolayers at liquid interfaces, in: B.P. Binks, T.S. Horozov (Eds.), *Colloidal Particles at Liquid Interfaces*, Cambridge University Press, Cambridge, UK, 2006, pp. 77–107.
  15. Binks B.P., T.S. Horozov, Colloidal particles at liquid interfaces: an introduction, in: B.P. Binks, T.S. Horozov (Eds.), *Colloidal Particles at Liquid Interfaces*, Cambridge University Press, Cambridge, UK, 2006, pp. 1–76.
  16. Bordacs S., A. Agod, Z. Horvolgyi, Compression of Langmuir films composed of fine particles: collapse mechanism and wettability, *Langmuir* 22(16) (2006) 6944–6950.



17. Dryfe R.A.W., Modifying the liquid/liquid interface: pores, particles and deposition, *Phys. Chem. Chem. Phys.* 8(16) (2006) 1869–1883.
18. Fernández-Toledano J.C., A. Moncho-Jordá, F. Martínez-López, R. Hidalgo-Álvarez, Theory for interactions between particles in monolayers, in: B.P. Binks, T.S. Horozov (Eds.), *Colloidal Particles at Liquid Interfaces*, Cambridge University Press, Cambridge, UK, 2006, pp. 108–151.
19. Fischer T.M., P. Dhar, P. Heinig, The viscous drag of spheres and filaments moving in membranes or monolayers, *J. Fluid Mech.* 558 (2006) 451–475.
20. Fuller G.G., E.J. Stancik, S. Melle, Particle-laden interfaces: rheology, coalescence, adhesion and buckling, in: B.P. Binks, T.S. Horozov (Eds.), *Colloidal Particles at Liquid Interfaces*, Cambridge University Press, Cambridge, UK, 2006, pp. 169–185.
21. Ngai T., H. Auweter, S.H. Behrens, Environmental responsiveness of microgel particles and particle-stabilized emulsions, *Macromolecules* 39(23) (2006) 8171–8177.
22. Oettel M., A. Dominguez, S. Dietrich, Comment on electrodriving force acting on solid particles at a fluid interface, *Langmuir* 22(2) (2006) 846–847.
23. Reynaert S., P. Moldenaers, J. Vermant, Control over colloidal aggregation in monolayers of latex particles at the oil–water interface, *Langmuir* 22(11) (2006) 4936–4945.
24. Tsai, Wu-Liou, Interfacial Colloid-Clusters, M.Sc. Thesis, National Central University, Taiwan, 2006.
25. Vassileva N.D., Behavior of Two-Dimensional Aggregates in Shear Flow, PhD Thesis, Group of Complex Fluids, University of Twente, The Netherlands, 2006.
26. Würger A., Screened electrostatics of charged particles on a water droplet, *Europ. Phys. J.* 19(1) (2006) 5–15.
27. Zeng C., H. Bissig, A.D. Dinsmore, Particles on droplets: from fundamental physics to novel materials, *Solid State Communications* 139(11–12) (2006) 547–556.
28. Benkoski J.J., R.L. Jones, J.F. Douglas, A. Karim, Photocurable oil/water interfaces as a universal platform for 2-D self-assembly, *Langmuir* 23(7) (2007) 3530–3537.
29. Deak, A., Nanorészecskés Langmuir- és Langmuir- Blodgett-filmek: előállítás és jellemzés. Ph.D. Thesis, Budapest University of Technology and Economics, Hungary, 2007.
30. Dominquez A., M. Oettel, S. Dietrich, Theory of capillary-induced interactions beyond the superposition approximation, *J. Chem. Phys.* 127(20) (2007) 204706.
31. Huang W.A., Q. Lan, Y. Zhang, Colloid particles adsorption and interfacial assembly at the fluids interface, *Progress in Chemistry* 19(2–3) (2007) 212–219.
32. Safouane M., D. Langevin, B.P. Binks, Effect of particle hydrophobicity on the properties of silica particle layers at the air–water interface, *Langmuir* 23(23) (2007) 11546–11553.
33. Wu S., A. Nikolov, D. Wasas, Role of collective interactions in self-assembly of charged particles at liquid interfaces, *Canadian Journal of Chemical Engineering* 85(5) (2007) 562–569.
34. Bohley C., R. Stannarius, Inclusions in free standing smectic liquid crystal films, *Soft Matter* 4(4) (2008) 683–702.
35. Dhar P., Autonomous and guided motion of active components at interfaces, PhD Thesis, Department of Chemistry and Biochemistry, Florida State University, 2008.
36. Dhar P., V. Prasad, E.R. Weeks, T. Bohlein, T.M. Fischer, Immersion of charged nanoparticles in a salt solution/air interface, *Journal of Physical Chemistry B* 112(32) (2008) 9565–9567.
37. Dominquez A., M. Oettel, S. Dietrich, Force balance of particles trapped at fluid interfaces, *Journal of Chemical Physics* 128(11) (2008) 114904.
38. Fan D., P.J. Thomas, P. O'Brien, Pyramidal lead sulfide crystallites with high energy {113} facets, *Journal of the American Chemical Society* 130(33) (2008) 10892–10894.
39. Lewandowski E.P., J.A. Bernate, P.C. Searson, K.J. Stebe, Rotation and alignment of anisotropic particles on nonplanar interfaces, *Langmuir* 24(17) (2008) 9302–9307.
40. Nagy, L.N., Preparation and characterization of functional nanostructured thin layers composed of silica, ZnO and core/shell silica/ZnO particles, Ph.D. Thesis, Budapest University of Technology and Economics, Hungary, 2008.
41. Oettel M., S. Dietrich, Colloidal interactions at fluid interfaces, *Langmuir* 24(4) (2008) 1425–1441.
42. Toledano J.C.F., Interactions, structure and kinetic properties of colloidal monolayers, PhD Thesis, Department of Applied Physics, Granada University, Spain, 2008.
43. Chekman, I.S., Nanoscience: historical aspects and prospects of investigations, *УКР. МЕД. ЧАСОПИС*, 3 (71) – V/VI, 2009.
44. Chen W., S. Tan, Y. Zhou, T.K. Nq, W.T. Ford, P. Tonq, Attraction between weakly charged silica spheres at a water–air interface induced by surface-charge heterogeneity, *Phys. Rev. E* 79(4) (2009) 041403.
45. De Graaf J., M. Dijkstra, R. Van Roij, Triangular tessellation scheme for the adsorption free energy at the liquid–liquid interface: Towards nonconvex patterned colloids, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 80(5) (2009) 051405.

46. Oettel M., A. Dominquez, M. Tasinkevych, S. Dietrich, Effective interactions of colloids on nematic films, *European Physical Journal E* 28(2) (2009) 99–111.
47. Dominquez A., Capillary forces between colloidal particles at fluid interfaces, in: *Structure and Functional Properties of Colloidal Systems*, CRC Press, 2010, Ch. 2.
48. Horvolgiu Z.D., *Anorganikus reszecskek folyadek-fluidum hatarretegbeli diszperzioi es szilard hordozos filmjei*, 2010.
49. Wu C., D. Lee, M.R. Zachariah, Aerosol-based self-assembly of nanoparticles into solid or hollow mesospheres, *Langmuir* 26(6) (2010) 4327–4330.
50. Xu H., J. Kirkwood, M. Lask, G. Fuller, Charge interaction between particle-laden fluid interfaces, *Langmuir* 26(5) (2010) 3160–3164.
51. Gharby M.A., *Comportement de colloides pieges aux interfaces de nematiques*, PhD Thesis, University Montpellier II, 2011.
52. Ma H., L.L. Dai, Particle self-assembly in ionic liquid-in-water pickering emulsions, *Langmuir* 27(2) (2011) 508–512.
53. Song Y., L.L. Dai, Formation and dynamics of capillary-flow-induced colloidal rings, *Langmuir* 27(12) (2011) 7361–7365.
54. Thomas P.J., D. Fan, P. O'Brien, Interfacial synthesis of pyramidal lead sulfide crystallites with high energy {331} facets, *J. Colloid Interface Sci.* 354(1) (2011) 210–218.
55. Thomas P.J., E. Albrasi, S.N. Mlondo, P. O'Brien, The assembly of metal nanocrystals into films mediated by amines at the water-oil interface, *Journal of Physical Chemistry C* 115(30) (2011) 14668–14672.
56. Zeng C., *Capillary interactions among microparticles and nanoparticles at fluid interfaces*, PhD Thesis, University of Massachusetts, 2011.
57. Микитюк М.В., Наночастинки та перспективи их застосування, *Проблеми екології і медицини* 15(5-6) (2011).
58. Fuller G.G., J. Vermant, Complex fluid-fluid interfaces: rheology and structure, *Annual Review of Chemical and Biomolecular Engineering* 3 (2012) 519–543.
59. Garbin V., J.C. Crocker, K.J. Stebe, Nanoparticles at fluid interfaces: exploiting capping ligands to control adsorption, stability and dynamics, *Journal of Colloid and Interface Sci.* 387(1) (2012) 1–11.
60. De Graaf J., *Anisotropic nanocolloids: self-assembly, interfacial adsorption, and electrostatic screening*, PhD Thesis, Utrecht University, 2012.
61. Shrestha A., K. Bohinc, S. May, Immersion depth of positively versus negatively charged nanoparticles at the air-water interface: A Poisson-Boltzmann model, *Langmuir* 28(40) (2012) 14301–14307.
62. Abkarian M., S. Protiere, J.M. Aristoff, H.A. Stone, Gravity-induced encapsulation of liquids by destabilization of granular rafts, *Nature Communications* 4 (2013) 1895.
63. Rezvantalab H., S. Shojaei-Zadeh, Role of geometry and amphiphilicity on capillary-induced interactions between anisotropic janus particles, *Langmuir* 29(48) (2013) 14962–14970.
64. Sinha A., A.K. Mollah, S. Hardt, R. Ganguly, Particle dynamics and separation at liquid-liquid interfaces, *Soft Matter* 9(22) (2013) 5438–5447.
65. Thomas P.J., E. Mbufu, P. O'Brien, Thin films of metals, metal chalcogenides and oxides deposited at the water-oil interface using molecular precursors, *Chemical Communications* 49(2) (2013) 118–127.
66. Gao P., X. Xing, Y. Li, T. Ngai, F. Jin, Charging and discharging of single colloidal particles at oil/water interfaces, *Scientific Reports* 4 (2014) 4778.
67. Jana M.K., B. Murali, S.B. Krupanidhi, K. Biswas, C.N.R. Rao, Fabrication of large area PbSe films at the organic-infrared photoresponse, *Journal of Materials Chemistry C* 2(31) (2014) 6283–6289.
68. Majee A., M. Bier, S. Dietrich, Electrostatic interaction between colloidal particles trapped at an electrolyte interface, *Journal of Chemical Physics* 140(16) (2014) 164906.
69. Rezvantalab H., S. Shojaei-Zadeh, Designing patchy particles for optimum interfacial activity, *Physical Chemistry Chemical Physics* 16(18) (2014) 8283–8293.
70. Rezvantalab H., S. Shojael-Zadeh, Behavior of Janus particles at liquid interfaces, *ASME 1D* (2014) 109724.
71. Tsabet E., *De la particule au procede: modelisation de la production d'emulsions de pickering*, PhD Thesis, Montreal University, 2014.
72. Davies G.B., L. Botto, Dipolar capillary interaction between tilted ellipsoidal particles adsorbed at fluid-fluid interfaces, *Soft Matter* 11(40) (2015) 7969–7976.
73. Vora S.R., B. Bognet, H.S. Patanwala, F. Chinesta, A.W.K. Ma, Surface pressure and microstructure of carbon nanotubes at an air-water interface, *Langmuir* 31(16) (2015) 4663–4672.
74. Al Chaghouri, M.A. Malik, P.J. Thomas, P. O'Brien, Assembly of submicron sized Ag, Co and Ni particles into thin films at liquid/liquid interfaces, *Journal of Nanoscience and Nanotechnology* 16(5) (2016) 5420–5425.

75. Bier M., General properties of ionic complex fluids, PhD Thesis, Stuttgart University, 2016.
76. Bossa G.V., J. Roth, K. Bohinc, S. May, The apparent charge of nanoparticles trapped at a water interface, *Soft Matter* 12(18) (2016) 4229–4240.
77. Bossa G.V., K. Bohinc, M.A. Brown, S. May, Dipole moment of a charged particle trapped at the air-water interface, *Journal of Physical Chemistry B* 120(26) (2016) 6278–6285.
78. Cappelli S., Magnetic particles at fluid-fluid interfaces: microrheology, interaction and wetting, PhD Thesis, Technical University, Eindhoven, 2016.
79. Everts J.C., Colloidal dispersions of repulsive nanoparticles: tunable effective interactions, phase behavior and anisotropy, PhD Thesis, Utrecht University, 2016.
80. Boglaenko D., B. Tansel, Preferential positioning and phase exposure of granular particles at hydrophobic liquid-water interface, *Journal of Cleaner Production* 142 (2017) 2629–2636.
81. Jeridi H., Comportements colloïdaux dans des films minces de cristaux liquides, PhD Thesis, université de Tunis El Manar, Français, 2017.
82. Kang D.W., M. Lee, K.H. Kim, M. Xia, S.H. Im, B.J. Park, Electrostatic interactions between particles through heterogeneous fluid phases, *Soft Matter* 13(37) (2017) 6647–6658.
83. Lotito V., T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide to nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
84. Amoanu D., Voltage-tunable 2D and 3D structures of gold nanoparticles at a water/1,2-dichloroethane interface, PhD Thesis, University of Illinois of Chicago, 2018.
85. Eigenbrod M., F. Bihler, S. Hardt, Electrokinetics of a particle attached to a fluid interface: Electrophoretic mobility and interfacial deformation, *Physical Review Fluids* 3 (2018) 103701.
86. Maestro A., E. Santini, E. Guzman, Physico-chemical foundation of particle-laden fluid interfaces, *The European Physical Journal E* August (2018) 41–97.
87. Majee A., M. Bier, S. Dietrich, Electrostatic interaction of particles trapped at fluid interfaces: effects of geometry and wetting properties, *Soft Matter* 14 (2018) 9436–9444.
88. Rivas N., S. Frijters, I. Pagonabarraga, J. Harting, Mesoscopic electrohydrodynamic simulations of binary colloidal suspensions, *Journal of Chemical Physics* 148(14) (2018) 144101.
89. Thiyam P., J. Fiedler, S.Y. Buhmann, M. Bostrom, D.F. Parsons, Ice particles sink below the water surface due to a balance of salt, van der Waals, and buoyancy forces, *Journal of Physical Chemistry C* 122 (2018) 15311–15317.
90. Yang X., A. Mayer, G. Bournival, R. Pugh, S. Ata, Experimental technique to study the interaction between a bubble and particle-laden interface, *Frontiers in Chemistry* 6 (2018) 348.
91. Hu Y., P. Vlahovska, M.J. Miksis, Dielectric spherical particle on an interface in an applied electric field, *SIAM Journal of Applied Mathematics* 70(3) (2019) 850–875.
92. Laal-Dehghani N., G.F. Christopher, 2D stokesian simulation of particle aggregation at quiescent air/oil-water interfaces, *Journal of Colloid and Interface Science* 553 (2019) 259–268.
93. Liber S.R., A.V. Butenko, M. Caspi, M. Deutsch, E. Sloutskin, Precise self-positioning of colloidal particles on liquid emulsion droplets, *Langmuir* 35 (2019) 13053–13061.
94. Hardt S., J. Hartmann, S. Zhao, A. Bandopadhyay, Electric field-induced pattern formation in layers of DNA molecules at the interface between two immiscible liquids, *Physical Review Letters* 124 (2020) 064501.
95. Eigenbrod M., The influence of boundary configuration on the dissipation and stability in fluids at low Reynolds numbers, PhD Thesis, Darmstadt Technological University, 2020.
96. Barakat J.M., T.M. Squires, Capillary force on an 'inert' colloid: A physical analogy to dielectrophoresis, *Soft Matter* 17 (2021) 3417–3442.
97. Correia E.L., N. Brown, S. Razavi, Janus particles at fluid interfaces: Stability and interfacial rheology, *Nanomaterials* 11 (2021) 374.
98. Guzman E., Abelenda-Nunez I., Maestro A., Ortega F., Santamaria A., Rubio R.G., Particle-laden fluid/fluid interfaces: Physico-chemical foundation, *Journal of Physics Condensed Matter* 33 (2021) 333001.
99. Son K., J.-Y. Sun, H.-Y. Kim, Agile reversible shape-morphing of particle rafts, *Soft Matter* 17 (2021) 7554–7564.
100. Binden S., J. Allard, E. Koos, The behavior of capillary suspensions at diverse length scales: From single capillary bridges to bulk. *Current Opinion in Colloid and Interface Science* 58 (2022) 101557.
101. Dani A., Y. Mohsen, C. Maldarelli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
102. Ma X., N.N. Nguyen, A.V. Nguyen, A review on quantifying the influence of lateral capillary interactions on the particle floatability and stability of particle-laden interfaces, *Advances in Colloid and Interface Science* 307 (2022) 102731.

103. Smits J., R. Prasad Giri, C. Shen, D. Mendonca, B. Murphy, P. Huber, K. Rezwan, M. Maas, Assessment of nanoparticle immersion depth at liquid interfaces from chemically equivalent macroscopic surfaces, *Journal of Colloid and Interface Science* 611 (2022) 670–683.
  104. Sun X., J. Ge, Synergism between lipophilic surfactant and lipophilic SiO<sub>2</sub> nanoparticles enhances self-emulsification performance, *Journal of Petroleum Science and Engineering* 216 (2022) 110760.
  105. Correia E.L., S. Razavi, Janus particle amphiphilicity and capillary interactions at a fluid interface, *AIChE Journal* 29 (2023) e18241.
- 113 K.D. Danov, Effect of surfactants on drop stability and thin film drainage, in: V. Starov, I.B. Ivanov (Eds.), Fluid Mechanics of Surfactant and Polymer Solutions, Springer, New York, 2004, pp. 1–38. (брой: 28)**
1. Urbina-Villalba G., M. Garcia-Sucre, Role of the secondary minimum on the flocculation rate of nondeformable drops, *Langmuir* 21(15) (2005) 6675–6687.
  2. Eliseeva O.V., Wetting films stabilized by block-copolymers, PhD Thesis, Wageningen University, The Netherlands, 2006.
  3. Frising T., C. Noik, C. Dalmazzone, The liquid/liquid sedimentation process: from droplet coalescence to technologically enhanced water/oil emulsion gravity separations: a review, *J. Dispersion Science Technology* 27(7) (2006) 1035–1057.
  4. Sosnowski T.R., M.K. Pavelec, L. Gradon, Influence of deformations on dynamic properties of gas-liquid interface in the presence of surfactants, *Inzynieria chemiczna i procesowa* 27(1) (2006) 93–106.
  5. Sosnowski T., Efekty dynamiczne w układach ciecz-gaz z aktywną powierzchnią międzyfazową, *Prace Widzialu Inzynieri Chemichnei* 30(2) (2006) 3–141.
  6. Frising T., C. Noik, C. Dalmazzone, Y. Peysson, T. Palermo, Contribution of the sedimentation and coalescence mechanisms to the separation of concentrated water-in-oil emulsions, *J. Dispersion Science Technology* 29(6) (2008) 827–834.
  7. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
  8. Adkins S.S., Carbon dioxide and water emulsion stability and rheology with nonionic hydrocarbon surfactants or particles, PhD Thesis, University of Texas, 2009.
  9. Adkins S.S., X. Chen, I. Chan, E. Torino, Q.P. Nguyen, A.W. Sanders, K.P. Johnston, Morphology and stability of CO<sub>2</sub>-in-Water foams with nonionic hydrocarbon surfactants, *Langmuir* 26(8) (2010) 5335–5348.
  10. Karakashev S.I., D.S. Ivanova, Thin liquid film drainage: ionic vs. non-ionic surfactants, *J. Colloid Interface Sci.* 343 (2010) 584–593.
  11. Karakashev S.I., R. Tsekov, D.S. Ivanova, Dynamic effects in thin liquid films containing ionic surfactants, *Colloids Surfaces A* 356(1–3) (2010) 40–45.
  12. Zhang L.-M., K. Zhang, L.-M. He, G. Mojtaba, Design, experiment and practical application of high voltage electrostatic coalescer, *Gaudianya Jichu/High Voltage Engineering* 36(7) (2010) 1797–1802.
  13. Osorio P., G. Urbina-Villalba, Influence of drop deformability on the stability of decane-in-water emulsions, *J. Surfactants and Detergents* 14(2) (2011) 281–300.
  14. Schmitte E.A., Herstellung unilamellarer Vesikel durch Phasentransferprozesse, PhD Thesis, Technical University, Dortmund, 2011.
  15. Zhang L., K. Zhang, M. Ghadiri, A. Hassanpour, X. Chen, The electrostatic coalescence mechanism of surfactant droplets, *Journal of Basic Science and Engineering* 19(6) (2011) 877–885.
  16. Zhang L., K. Zhang, X. Li, M. Ghadiri, A. Hassanpour, Electrostatic movement characteristics of droplets in a highly electric field, *Shiyou Xuebao/Acta Petrolei Sinica* 32(3) (2011) 524–528.
  17. Kiran S.K., E.J. Acosta, HLD-NAC and the formation and stability of emulsions near the phase inversion point, *Industrial and Engineering Chemistry Research* 54(25) (2015) 6467–6479.
  18. Ghosal S., J.D. Sherwood, Screened Coulomb interactions with non-uniform surface charge, *Proceedings of the Royal Society A* 473(2199) (2017) 20160906.
  19. Joshi K., Behaviour of thin colloidal films and fundamental studies of convective deposition, PhD Thesis, Lehigh University, 2017.
  20. Calmelet C., V. Rosenhaus, C. Squellati, Invariant solutions of surfactant-driven flows, *Acta Mechanica* (2018) 1–19.
  21. Dudek M.J., Produced water quality and microfluidic methods for studying drop-drop and drop-bubble interactions in produced water, PhD Thesis, Norwegian University of Science and Technology, 2018.
  22. Guo L., S. Liu, Progress in micro-mechanism and influencing factors of electro-demulsification, *Oilfield Chemistry* 35(4) (2018) 750–756.
  23. Dudek M., D. Fernandes, E.H. Hero, G. Oye, Microfluidic method for determining the drop-drop coalescence and contact times in flow, *Colloid and Surfaces A* (2019) 124265.



24. Dudek M., E.A. Vik, S.V. Aanesen, G. Oye, Colloid chemistry and experimental techniques for understanding fundamental behaviour of produced water in oil and gas production, *Advances in Colloid and Interface Science* 276 (2020) 102105.
  25. Joshi K., J.F. Gilchrist, Effect of added surfactant on convective-assembly of monosized microspheres, *Applied Physics Letters* 116 (2020) 083702.
  26. Rezaei A., Z. Derikvand, R. Parsaei, M. Imanivarnosfaderani, Surfactant-silica nanoparticle stabilized N<sub>2</sub>-foam flooding: A mechanistic study on the effect of surfactant type and temperature, *Journal of Molecular Liquids* 325 (2021) 115091.
  27. Rondepierre G., F. Lequeux, E. Verneuil, N. Passade-Boupat, L. Talini, spinodal stratification in micellar films between oil and silica, *Physical Review E* 103 (2021) 052801.
  28. Gladchuk A.S. et al., Self-organization of stearic acid salts on the hemispherical surface of the aqueous subphase allows functionalization of matrix-assisted laser desorption/ionization mass spectrometry target plates for on-plate immobilized metal affinity chromatography enrichment, *Thin Solid Films* 756 (2022) 139374.
- 111 K.D. Danov, S.D. Kralchevska, P.A. Kralchevsky, K.P. Ananthapadmanabhan, A. Lips, Mixed solutions of anionic and zwitterionic surfactant (betaine): surface-tension isotherms, adsorption, and relaxation kinetics, *Langmuir* 20 (2004) 5445–5453. (брой: 160)**
1. Lopez-Diaz D., I. Garcia-Mateos, M.M. Velazquez, Synergism in mixtures of zwitterionic and ionic surfactants, *Colloids Surfaces A* 270–271(1–3) (2005) 153–162.
  2. Wydro P., M.J. Paluch, A study of the interaction of dodecyl sulfobetaine with cationic and anionic surfactant in mixed micelles and monolayers at the air/water interface, *J. Colloid Interface Sci.* 286(1) (2005) 387–391.
  3. Golemanov K., S. Tcholakova, N.D. Denkov, T. Gurkov, Selection of surfactants for stable paraffin-in-water dispersions, undergoing solid-liquid transition of the dispersed particles, *Langmuir* 22(8) (2006) 3560–3569.
  4. Lopez-Diaz D., I. Garcia-Mateos, M.M. Velazquez, Surface properties of mixed monolayers of sulfobetaines and ionic surfactants, *J. Colloid Interface Sci.* 299(2) (2006) 858–866.
  5. Angarska J., C. Stubenrauch, E. Manev, Drainage of foam films stabilized with mixtures of non-ionic surfactants, *Colloids Surfaces A* 309(1–3) (2007) 189–197.
  6. Kalekar M.S., S.S. Bhagwat, Effect of additives on the dynamic behavior of surfactants in solution, *J. Dispersion Science Technology* 28(6) (2007) 907–911.
  7. Singh K., D.G. Marangoni, Synergistic interactions in the mixed micelles of cationic gemini with zwitterionic surfactants: the pH and spacer effect, *J. Colloid Interface Sci.* 315(2) (2007) 620–626.
  8. Wang, Z.-Y., Hu, X.-Y., Fang, Y., Zhang, S.-F., AIChE Annual Meeting, Conference Proceedings, 2007.
  9. Wydro P., The influence of the size of the hydrophilic group on the miscibility of zwitterionic and nonionic surfactants in mixed monolayers and micelles, *J. Colloid Interface Sci.* 316(1) (2007) 107–113.
  10. Behera K., S. Pandey, Ionic Liquid Induced Changes in the Properties of Aqueous Zwitterionic Surfactant Solution, *Langmuir* 24 (2008) 6462–6469.
  11. Fournial A.-G., Contributions of advance NMR techniques to the deformation of complex fluid systems, PhD Thesis, Lil University, France, 2008.
  12. Mahajan R.K., K.K. Vohra, A. Shaheen, V.K. Aswal, Investigations on mixed micelles of binary mixtures of zwitterionic surfactants and triblock polymers: A cyclic voltammetric study, *Journal of Colloid and Interface Science* 326(1) (2008) 89–95.
  13. Nasr-El-Din H.A., A.H. Al-Ghamdl, A. Al-Qahtani, M.M. Samuel, Impact of acid additives on the rheological properties of a viscoelastic surfactant and their influence on field application, *SPE Journal* 13(1) (2008) 35–47.
  14. Qi L., Y. Fang, Z. Wang, M. Zhong, N. Ma, Investigation of surface activity of  $\alpha$ -captic betaine zwitterionic surfactant, *Journal of Jiangnan University* 17(6) (2008) 725–729.
  15. Shen W., L.-M. Wang, H. Tian, Quaternary ammonium salt gemini surfactants containing perfluoroalkyl tails catalyzed one-pot Mannich reactions in aqueous media, *Journal of Fluorine Chemistry* 129(4) (2008) 267–273.
  16. Chai J.L., J. Liu, H.L. Li, Phase diagrams and chemical physical properties of dodecyl sulfobetain/alcohol/oil/water microemulsion system, *Colloid Journal* 71(2) (2009) 257–262.
  17. Zhu Y., G. Xu, H. Gong, D. Wu, Y. Wang, Production of ultra-low interfacial tension between crude oil and mixed brine solution of Triton X-100 and its oligomer Tyloxapol with cetyltrimethylammonium bromide induced by hydrolyzed polyacrylamide, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 332(2–3) (2009) 90–97.

18. Chu Z., Y. Feng, X. Su, Y. Han, Wormlike micelles and solution properties of a C22-tailed amidosulfobetaine surfactant, *Langmuir* 26(11) (2010) 7783–7791.
19. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Adsorption layer characteristics of mixed oxyethylated surfactant solutions, *Journal of Physical Chemistry B* 144(13) (2010) 4503–4508.
20. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Adsorption layer characteristics of multi-component surfactants solutions, *Soft Matter* 6(19) (2010) 4694–4700.
21. Fainerman V.B., E.V. Aksenenko, S.V. Lylyk, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of mixed sodium dodecyl sulfate/C nEOM solutions 1. Dynamic and equilibrium surface tension, *Langmuir* 26(1) (2010) 284–292.
22. Hu X., Y. Li, H. Sun, X. Song, Q. Li, X. Cao, Z. Li, Effect of divalent cationic ions on the adsorption behavior of zwitterionic surfactant at silica/solution interface, *J. Physical Chemistry B* 114(27) (2010) 8910–8916.
23. Lopez-Diaz D., E. Sarmiento-Gomez, C. Garza, R. Castillo, A rheological study in the dilute regime of the worm-micelle fluid made of zwitterionic surfactant (TDPS), anionic surfactant (SDS), and brine, *J. Colloid Interface Sci.* 348(1) (2010) 152–158.
24. Nachbar L.S., Effects of formulation conditions on micellar interactions and solution rheology in multicomponent micellar systems, PhD Thesis, MIT, 2010.
25. Wang Z.Y., S.F. Zhang, Y. Fang, L.Y. Qi, Synergistic Behavior Between Zwitterionic Surfactant alpha-Decylbetaine and Anionic Surfactant Sodium Dodecyl Sulfate, *Journal of Surfactants and Detergents* 13(4) (2010) 381–385.
26. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Equilibrium adsorption layer characteristics of mixed sodium dodecyl sulphate/Triton solutions, *Colloids and Surfaces* 385(1–3) (2011) 139–143.
27. Singh N., K.K. Ghosh, Micellar characteristics and surface properties of some sulfobetaine surfactants, *Tenside, Surfactants, Detergents* 48(2) (2011) 160–164.
28. Staszac K., D. Wieczorek, R. Zielinski, WŁAŚCIWOŚCI POWIERZCHNIOWE WODNYCH ROZTWORÓW KOKOBETAINY, 2011.
29. Wieczorek D., K. Michocka, K. Staszac, Properties of cocobetaine aqueous solutions, *Zeszyty Naukowe* 212 (2011) 148–158.
30. Xu Z., S.-L. Yuan, H. Yan, C.-B. Liu, Adsorption of histidine and histidine-containing peptides on Au(111): A molecular dynamics study, *Colloid and Surfaces A* 380(1–3) (2011) 135–142.
31. Zhang Y., D.J.F. Taylor, R.K. Thomas, J. Penfold, The effects of the addition of the polyelectrolyte, poly(ethyleneimine), on the adsorption of mixed surfactants of sodium dodecylsulfate and dodecyltrimethylaminoacetate at the air–water interface, *J. Colloid Interface Sci.* 356 (2011) 647–655.
32. Banerjee C., S. Mandal, S. Ghosh, V.G. Rao, N. Sarkar, Tuning the probe location on zwitterionic micellar system with variation of pH and addition of surfactants with different alkyl chains: solvent and rotational relaxation study, *Journal of Physical Chemistry B* 116(36) (2012) 11313–11322.
33. Chanda S., D. Das, J. Das, K. Ismail, Adsorption characteristics of sodium dodecylsulfate and cetylpyridinium chloride at air/water, air/formamide and air/water formamide interfaces, *Colloid Surfaces A* 399 (2012) 56–61.
34. De Souza T.P., H. Chaimovich, A. Fahr, B. Schweitzer, A.A. Neto, I.M. Cuccovia, Interfacial concentrations of chloride and bromide in zwitterionic micelles with opposite dipoles: Experimental determination by chemical trapping and a theoretical description, *J. Colloid Interface Science* 371(1) (2012) 62–72.
35. Duan Y., Z. Cheng, X. Ma, Study of reducing the content of sodium chloride in amphoteric surfactant dodecyl dimethyl hydroxypropyl sulfo lysine, *Guangzhou Chemical Industry* 40(22) (2012).
36. Garg R., Supramolecular chemistry of host-guest inclusion complexes, Natural Science, India, 2012.
37. Liu N., J. Chi, S. Gao, F. Shen, X. Ye, The method for the determination of anionic surfactants in water reuse on chloroform waste liquid, *Guangzhou Chemical Industry* 40(22) (2012).
38. Madunic-Cacic D., M. Sak-Bosnar, R. Matesic-Puac, M. Samardzic, Potentiometric determination of anionic surfactants in formulation containing cocoamidopropyl betaine, *Int. J. Electrochem. Sci.* 7 (2012) 875–885.
39. Marquerie S., M. Pissavini, A. Boud, T. Carayol, A new chemical approach to optimize the in vitro SPF method on the HD6 PMMA plate, *J. Cosmet. Sci.* 63 (2012) 243–254.
40. Prajapati R.R., S.S. Bhagwat, Effect of foam boosters in the micellization and adsorption of sodium dodecyl sulfate, *Journal of Chemical and Engineering Data* 57(12) (2012) 3644–3650.
41. Rao V.G., C. Ghatak, S. Ghosh, S. Mandal, N. Sarkar, Ionic-liquid-induced changes in the properties of aqueous zwitterionic surfactant solution: Solvent and rotational relaxation studies, *Journal of Physical Chemistry B* 116(12) (2012) 3690–3698.

42. Rao V.G., C. Ghatak, S. Ghosh, S. Mandal, N. Sarkar, The chameleon-like nature of zwitterionic micelles; The effect of ionic liquid addition on the properties of aqueous sulfobetaine micelles, *ChemPhysChem* 13(7) (2012) 1893–1901.
43. Wiechorek D., D. Kwasniewska, Właściwości powierzchniowe wybranych surfaktantów betainowych, 2012.
44. Gao J., M. He, Z.Y. Lee, W. Cao, W.-W. Xiong, R. Ganguli, T. Wu, Q. Zhang, A surfactant-thermal method to prepare four new three-dimensional heterometal-organic frameworks, *Dalton Transactions* 42(32) (2013) 11367–11370.
45. Gaynanova G. A., A. R. Valiakhmetova, D. A. Kuryashov, Y. R. Kurhashova, S. S. Lukashenko, V. V. Syakaev, S. K. Latypov, S. V. Bukharov, N. Y. Bashkirtseva, L. Y. Zakharova, The self-organization and functional activity of binary system based on erucyl amidopropyl betaine-alkylated polyethyleneimine, *Chemical Physics Letters* 588 (2013) 145–149.
46. Sala D., A. Mizerski, Wetting histeresis test of solids by different types of surfactants, *Zeszyty Naukowe SGSP* 48(4) (2013) 7–21.
47. Abdelgadir M., M. Salama, Enhancement of solubilization of ibuprofen using sucrose laurate, *International Journal of Pharmacy and Pharmaceutical Sciences* 6(1) (2014) 604–606.
48. Al-Sadat W., M.S. Nasser, F. Chang, H.A. Nasr-El-Din, I.A. Hussein, Laboratory evaluation of the effects of additives and pH on the thermorheological behavior of a viscoelastic zwitterionic surfactant used in acid stimulation, *Journal of Petroleum Science and Engineering* 122 (2014) 458–467.
49. Aranda-Bravo C.G., J.G. Mendez-Bermudez, H. Dominquez, Desorption of decane molecules from a grafite surface produced by sodium alpha olefin sulfate/betaine mixtures: a computer simulation study, *Journal of Molecular Liquids* 200 B (2014) 465–473.
50. Chen T., G. Zhang, P. Jiang, J. Ge, Dilational rheology at air/water interface and molecular dynamics simulation research of hydroxyl sulfobetaine surfactant, *J. Dispersion Science and Technology* 35(3) (2014) 448–455.
51. Kumar K., A study of influence of additives on physicochemical properties of conventional surfactants, PhD Thesis, Guru Nanak Dek University, India, 2014.
52. Lesov I., S. Tcholakova, N. Denkov, Factors controlling the formation and stability of foams used as precursors of porous materials, *J. Colloid Interface Sci.* 426 (2014) 9–21.
53. Li Y., W. Ly, X. Cao, X. Song, Q. Wang, Y. Li, Stydy of synergistic effect of sodium dodecyl sulfate and betaine at the air/water and oil/water interfaces, *Acta Chimica Sinica* 72(5) (2014) 615–623.
54. Mixed micellar properties of dodecyldimethyl(3-sulfopropyl)ammonium hydroxide with other surfactants, *Journal of the Korean Oil Chemical Society* 31(4) (2014) 602611.
55. Nandni D., Effect of different additives on the aggregation behavior of surfactant triblock polymers, PhD Thesis, Guru Nanak Dek University, India, 2014.
56. Onaizi S.A., M.S. Nasser, F. Twaiq, Adsorption and thermodynamics of biosurfactant, surfactin, monolayers at the air-buffered liquid interface, *Colloid and Polymer Science* 292(7) (2014) 1649–1656.
57. Sett S., R.P. Sahu, S. Sinha-Ray, A.L. Yarin, Superspreaders versus “cousin” non-superspreaders: disjoining pressure in gravitational film drainage, *Langmuir* 30(10) (2014) 2619–2631.
58. Xu J., Z. Xu, C.-D. Qiao, T.-D. Li, Effect of anionic surfactants on grafting density of gelatin modified with PDMS-E, *Colloids Surfaces B* 114 (2014) 310–315.
59. Zhao Z., G. Lu, Y. Zhang, S. Lian, N. Tian, Performance of EDAB-HCl acid blended system as fracturing fluids in oil fields, *Chinese Journal of Chemical Engineering* 22(2) (2014) 202–207.
60. Bagheri A., A. Adolhasani, Binary mixtures of cationic surfactants with triton X-100 and the studies of physicochemical parameters of the mixed micelles, *Korean Journal of Chemical Engineering* 32(2) (2015) 308–315.
61. Gu X.-F., J. Huo, R.-T. Wang, D.-C. Wu, Y.-L. Yan, Synergism in mixed zwiterionic surface activity ionic liquid and anionic surfactant solution: analysis of interfacial and micellar behavior, *J. Dispersion Science and Technology* 36(3) (2015) 334–342.
62. Guo S., H. Wang, J. Shi, B. Pan, Y. Cheng, Synthesis and properties of a novel alkyl-hydroxyl-sulfobetain zwitterionic surfactant for enchaned oil recovery, *Journal of Petroleum Exploration and Production Technology* 5(3) (2015) 321–326.
63. Kramer C., T.L. Kowald, R.H.F. Trettin, Pozzolanic hardened three-phase-foams, *Cements and Concrete Composites* 62 (2015) 44–51.
64. Rozanska S., Rheology of wormlike micelles in mixed solutiouns of cocoamidopropyl betaine and sodium dodecylbenzenesulfonate, *Colloids and Surfaces A* 482 (2015) 394–402.
65. Schmid A.J., R. Schroeder, T. Eckert, A. Radulescu, A. Pich, W. Richtering, Synthesis and solution behavior of stimuli-senzitive zwitterionic microgel, *Colloid and Polymer Science* 293 (2015) 3305–3318.
66. Staszak K., D. Wieczorek, K. Michocka, Effect of sodium chloride on surface and wetting properties of aqueous solutions of cocoamidopropyl betaine, *J. Surfactants and Detergents* 18(2) (2015) 321–328.

67. Thakkar K., B. Bharatiya, D.O. Shah, P. Bahadur, Investigations on zwitterionic alkylsulfobetaines and nonionic Triton-X100 mixed aqueous solutions: effect on size, phase separation and mixed micellar characteristics, *Journal of Molecular Liquids* 209 (2015) 569–577.
68. Zhao J., C. Dai, Q. Ding, M. Du, H. Feng, Z. Wei, A. Chen, M. Zhao, The structure effect on the surface and interfacial properties of zwitterionic sulfobetaine surfactants for enhanced oil recovery, *RSC Advances* 5(18) (2015) 13993–14001.
69. Cao J.-H., Z.-H. Zhou, Z.-C. Xu, Q. Zhang, S.-H. Li, H.-B. Cui, L. Zhang, L. Zhang, Synergism/antagonism between crude oil fractions and novel betaine solutions in reducing interfacial tension, *Energy and Fuels* 30(2) (2016) 924–932.
70. Duran-Alvarez A., M. Maldonado-Domíquez, O. Gonzales-Antonio, C. Duran-Valencia, M. Romero-Avila, E. Barragan-Arroche, S. Lopez-Ramirez, Experimental-theoretical approach to the adsorption mechanism for anionic, cationic, and zwitterionic surfactants at the calcite-water interface, *Langmuir* 32(11) (2016) 2608–2616.
71. Feng Y., Z. Chu, Correlating surface activity with structural and environmental parameters for alkylamidodisulfobetaine surfactants, *Colloid and Polymer Science* 294 (2016) 957–963.
72. Kotsiopoulou N.G., T.I. Liakos, N.K. Lazaridis, Melanoidin chromophores and betaine osmoprotectant separation from aqueous solutions, *Journal of Molecular Liquids* 216 (2016) 496–502.
73. Li P., K. Ma, R.K. Thomas, J. Penfold, Analysis of the asymmetric synergy in the adsorption of zwitterionic-ionic surfactant mixtures at the air-water interface below and above the critical micelle concentration, *Journal of Physical Chemistry B* 120(15) (2016) 3677–3691.
74. Qaraman A.F., The efficiency of mixed surfactants as air entraining agents in cement pastes, *European Journal of Material Sciences* 3(3) (2016) 12–22.
75. Qu G., C. Xue, M. Zhang, S. Liang, Y. Han, W. Ding, Molecular dynamics simulation of sulfobetaine-type zwitterionic surfactants at the decane/water interface: Structure, interfacial properties. *Journal of Dispersion Science and Technology* 37(12) (2016) 1710–1717.
76. Yang G., J. Zhao, From reverse worms to reverse vesicles formed by mixed zwitterionic and non-ionic surfactants in cyclohexane, *RSC Advances* 6(19) (2016) 15694–15700.
77. Alzobaidi S., C. Da, V. Tran, M. Prodanovich, K.P. Johnston, High temperature ultralow water content carbon dioxide-in-water foam stabilized with viscoelastic zwitterionic surfactants, *Journal of Colloid and Interface Science* 488 (2017) 79–91.
78. Fan Y., H. Tang, Y. Wang, Synergistic behavior and microstructure transition in mixture of zwitterionic surfactant, anionic surfactant, and salts in sorbitol/H<sub>2</sub>O solvent: 1. Effect of surfactant compositions, *Journal of Surfactant and Detergents* (2017) doi: 10.1007/s11743-017-1929-9.
79. Ergin G., M. Lbadauoi-Darvas, S. Takahama, Molecular structure inhibiting synergism in charged surfactant mixtures: An atomistic molecular dynamics study, *Langmuir* 33(49) (2017) 14093–14104.
80. Kramer C., M. Schauerte, T. Muller, S. Gebhard, R. Trettin, Application of reinforced three-phase-foam in UHPC foam concrete, *Construction and Building Materials* 131 (2017) 746–757.
81. Maneedaeng A., A.E. Flood, Synergisms in binary mixtures of anionic and pH-insensitive zwitterionic surfactants and their precipitation behavior with calcium ions, *Journal of Surfactants and Detergents* 20(1) (2017) 263–275.
82. Niemszak M., L. Chrzanowski, T. Praszyk, J. Pernak, Biodegradable herbicide ionic liquids based on synthetic auxins and analogues of betaine, *New Journal of Chemistry* 41(16) (2017) 8066–8077.
83. Shin J.-A., S.-J. Oh, H.-Y. Lee, Y.-G. Lim, An efficient Cu-catalyzed azide-alkyne cycloaddition (CuAAC) reaction in aqueous medium with a zwitterionic ligand, betaine, *Catalysis Science and Technology* 8(12) (2017) 2450–2456.
84. Tang X., W. Zou, P.H. Koenig, S.D. McConaughy, M.R. Weaver, D.M. Eike, M.J. Schmidt, R.G. Larson, Multiscale modeling of the effects of salt and perfume raw materials on the rheological properties of commercial threadlike micellar solutions, *Journal of Physical Chemistry B* 121(11) (2017) 2468–2485.
85. Vafakish B., Synergistic Effect of Cationic Surfactants on the Rheological Behavior of Erucyl Amidodisulfobetaine, *Tenside, Surfactants, Detergents* 54(3) (2017) 220–223.
86. Alves L., B. Lindman, B. Klotz, A. Botcher, H.-M. Haake, F.E. Antunes, On the rheology of mixed systems of hydrophobically modified polyacrylate microgels and surfactants: Role of the surfactant architecture, *Journal of Colloid and Interface Science* 513 (2018) 489–496.
87. Da C., S. Alzobaidi, G. Jian, L. Zhang, S.L. Biswal, G.J. Hirasaki, K.P. Johnston, Carbon dioxide/water foams stabilized with zwitterionic surfactant at temperature up to 150 °C in high salinity brine, *Journal of Petroleum Science and Engineering* 166 (2018) 880–890.
88. Hua X., M.A. Bevan, J. Frechette, Competitive adsorption between nanoparticles and surface active ions for the oil water interface, *Langmuir* 34(16) (2018) 4830–4842.
89. Matsuoka K., H. Miura, S. Karima, C. Taketaka, S. Uono, Y. Moroi, Removal of alkali metal from aqueous solution by foam separation method, *Journal of Molecular Liquids* 263 (2018) 89–95.



90. Peng M., A.V. Nguyen, J. Wang, R. Miller, A critical review of the model fitting quality and parameter stability of equilibrium adsorption models, *Advances in Colloid and Interface Science* 262 (2018) 50–68.
91. Zhong Q.-L., Z.-H. Zhou, Q. Zhang, G.-Y. Ma, L. Zhang, Studies on interfacial tensions of ionic surfactant and alkyl sulfobetaine mixed solutions, *Energy and Fuels* 32 (2018) 8202–8209.
92. Chican I.E., D. Varasteanu, I. Fierascu, R.C. Fierascu, M. Deaconu, Surface properties in surfactant systems containing amino-acid based surfactants, *IOP Conference Series: Material Science and Engineering* 572 (2019) 012009.
93. Erfani A., N.H. Flynn, J.D. Ramsey, C.P. Aichele, Increasing protein stability by association with zwitterionic amphiphile cocamidopropyl betaine, *Journal of Molecular Liquids* 295 (2019) 111631.
94. Guo X., S. Geng, M. Zhuo, Y. Chen, M.J. Zavorotko, P. Chen, Z. Zhang, The utility of the temperature effect in metal-organic frameworks, *Coordination Chemistry Reviews* 391 (2019) 44–68.
95. Keshavarzi B., A. Javadi, A. Bahramian, R. Miller, Formation and stability of colloidal gas aphron based drilling fluid considering dynamic surface properties, *Journal of Petroleum Science and Engineering* 174 (2019) 468–475.
96. Liu Q., A. Yang, S. Peng, R. Zhang, J. Li, G. Chen, Synthesis of new surfactants from lauramidopropyl betaine and surface activity evaluation, *Materials Science Forum* 953 (2019) 153–159.
97. Mohamad-Aziz S.N., P. Mishra, A.W. Zularisam, A.M.M. Sakinah, Isooctane-based anionic and zwitterionic surfactant: Synergistic interaction of mixed reverse micelle and solubilisation of erythromycin, *Journal of Molecular Liquids* 286 (2019) 110882.
98. Qu C., J. Wang, H. Yin, G. Lu, Z. Li, Y. Feng, Condensate oil-tolerant foams stabilized by an anionic-sulfobetaine surfactant mixture, *ACS Omega* 4(1) (2019) 1738–1747.
99. Erfani A., S. Khosharay, N.H. Flynn, J.D. Ramsey, C.P. Aichele, Effect of zwitterionic betaine surfactant on interfacial behavior of bovine serum albumin (BSA), *Journal of Molecular Liquids* 318 (2020) 114067.
100. Keshavarzi B., M. Mahmoudvand, A. Javadi, A. Bahramian, R. Miller, K. Eckert, Salt effect on formation and stability of colloidal gas aphrons produced by anionic and zwitterionic surfactants in xanthan gum solution, *Colloids and Interfaces* 4 (2020) 9.
101. Mushi S.J., W. Kang, H. Yang, P. Wang, X. Hou, Viscoelasticity and microstructural properties of zwitterionic surfactant induced by hydroxybenzoate salt for fracturing, *Journal of Molecular Liquids* 301 (2020) 112485.
102. Petkova B., S. Tcholakova, M. Cherkova, K. Golemanov, D. Throley, S. Stoyanov, Foamability of aqueous solutions: Role of surfactant type and concentration, *Advances in Colloid and Interface Science* 276 (2020) 102084.
103. Salazar-Arriaga A.B., H. Domiguez, Decane structure on a graphite surface with sodium dodecyl sulfate and betaine surfactant mixtures: A molecular dynamics study, *Chemical Physics* 539 (2020) 110945.
104. Sun H.-Q., Z.-Y. Guo, X.-L. Cao, Y.-W. Zhu, B.-L. Pan, M. Liu, L. Zhang, L. Zhang, Interfacial interactions between oleic acid and betaine molecules at decane-water interface: A study of dilational rheology, *Journal of Molecular Liquids* 316 (2020) 113784.
105. Zhou J., M. Scrivastava, R. Hahn, V. Dwarakanath, Evaluation of an amphoteric surfactant for CO<sub>2</sub> foam applications: A comparative study, *Proceedings – SPE Symposium on Improved Oil Recovery* (2020) 162753.
106. Zhou J., P.G. Ranjith, W.A.W. Wanniarachchi, different strategies of foam stabilization in the use of foam as a fracturing fluid, *Advances in Colloid and Interface Science* 276 (2020) 102104.
107. Birant S., Y. Duran, M. Gokalp, T. Akkoc, F. Seymen, Effects of different detergent-containing children's toothpastes on the viability, osteogenic and chondrogenic differentiation of human dental periodontal ligament stem cells and gingival stem cells in vitro, *Tissue and Cell* 72 (2021) 101538.
108. Creato E.J., B.C. Alvarenga, P.G. de Moura, A. Perez-Gramadegz, Viscosity-driven stabilization of CO<sub>2</sub>-in-brine foams using mixtures of cocamidopropyl hydroxysultaine and sodium dodecyl sulfate, *Journal of Molecular Liquids* 329 (2021) 115614.
109. Goral I., A. Stochmal, K. Wojciechowski, Surface activity of the oat, horse chestnut, cowherb, soybean, quinoa and soapwort extracts – Is it only due to saponins? *Colloid and Interface Science* 42 (2021) 100400.
110. Guo Z.-Y., X.-L. Cao, L.-L. Guo, L. Zhang, s. Zhao, Studies on interfacial interactions between petroleum sulfonate and sulfobetaine molecules by rheological measurements, *Journal of Dispersion Science and Technology* 42 (2021) 1106–1115.
111. Jamadagni S.N., X. Ko, J.B. Thomas, D.M. Elke, Salt- and pH- dependent viscosity of SDS/LAPB Solutions: Experiments and a semiempirical thermodynamic model, *Langmuir* 37 (2021) 8714–8725.
112. Li M., W. Kang, Z. Li, H. Yang, X. Kang, R. Jia, A. Xie, B. Sarsenbekula, M. Gabdullin, Fluid phase transition mechanism of a ternary component aqueous solution based on dynamic covalent bond, *Journal of Molecular Liquids* 332 (2021) 115849.

113. Li S., B. Zhao, H. Lin, H. Shuang, X. Kong, E. Yang, Review and prospects of surfactant-enhanced spray dust suppression: Mechanisms and effectiveness, *Process Safety Environmental Protection* 154 (2021) 410–424.
114. Li W., K. Wang, W. Zheng, Static and flow behaviors of supercritical CO<sub>2</sub> foam stabilized with betaine surfactant for mobility control application, *Oil Gas Sci. Tech.* 76 (2021) 58.
115. Liu Q., Y. Bai, S. Dong, J. Li, Z. Song, S. Chen, J. Zhang, G. Chen, Preparation and the foaming activity study of hydroxymethyl cetyltrimethyl ammonium chloride, *Tenside, Surfactants, Detergents* 58 (2021) 153–160.
116. Molchanov V.S., A.I. Kuklin, A.S. Orekhov, E.S. Khudoleeva, N.A. Arkharova, Networks of micellar chains in nanoplates, *Polymer Science* 63 (2021) 170–180.
117. Molchanov V.S., A.I. Kuklin, A.S. Orekhov, N.A. Arkharova, O.E. Philippova, Temporally persistent networks of long-lived mixed wormlike micelles of zwitterionic and anionic surfactants, *Journal of Molecular Liquids* (2021) 116955.
118. Moldes A.B., L. Rodriguez-Lopez, M. Rincon-Fontan, A. Lopez-Prieto, X. Vecino, J.M. Cruz, Synthetic and bio-derived surfactants versus microbial biosurfactants in the cosmetic industry: An overview, *International Journal of Molecular Sciences* 22 (2021) 2371.
119. Ntasi G., A. Tsarbopoulos, E. Mikros, Targeted metabolomics: The lc-ms/ms based quantification of the metabolites involved in the methylation biochemical pathways, *Metabolites* 11 (2021) 416.
120. Politova-Brinkova N., M. Hristova, V. Georgiev, M. Grandl, F. Achenbach, Role of surfactant adsorption and surface properties for the efficiency of PDMS-silica antifoams, *Colloids and Surfaces A* 610 (2021) 125747.
121. Roncoroni M.A., P. Romero, J. Montes, L.F. Mazadiego, M.F. Garcia-Mayoral, Enhancement of a foaming formulation with a zwitterionic surfactant for gas mobility control in harsh reservoir conditions, *Petroleum Science* 18 (2021) 1409–1426.
122. Wei H., R. Zhang, Z. Lei, L. Dang, Synergistic effect of cocamidopropyl betaine and sodium lauroyl sarcosinate, *Transactions of Tianjin University* 27 (2021) 366–376.
123. Yea D., Y. Lee, K. Park, J. Kim, Synthesis of eco-friendly fatty acid based zwitterionic biosurfactants from coconut oil sources and characterization of their interfacial properties, *Journal of Industrial and Engineering Chemistry* 97 (2021) 287–298.
124. Zhao J., Z. Pan, D. Synder, H.A. Stone, T. Emrick, chemically triggered coalescence and reactivity of droplet fibers, *Journal of the American Chemical Society* 143 (2021) 5558–5564.
125. Zhou J., P.G. Ranjith, Insights into interfacial behaviours of surfactant and polymer: A molecular dynamics simulation, *Journal of Molecular Liquids* (2021).
126. Zhu W., X. Zheng, Alkyl glycine surfactant: An efficient high-temperature resistant and biodegradable foaming agent for colloidal gas aphron (CGA) drilling fluid, *Petroleum Chemistry* 61 (2021) 1305–1318.
127. Ameer H.A.H.A., Spectrophotometric determination of micro amount for Zn(II) and Cr(III), PhD Thesis, University of Kerbala, 2022.
128. Corazza E., A. Abruzzo, B. Giordani, T. Cerchiara, F. Bigucci, B. Vitali, M. Pio di Cagno, B. Luppi, Human lactobacillus biosurfactants as natural excipients for nasal drug delivery of hydrocortisone, *Pharmaceutics* 14 (2022) 524.
129. Dong J., S. Dong, Z. Miao, Q. Wang, Y. Li, C. Qu, G. Chen, Development of a high efficient compound surfactant for foam rainage in gas wells, *Petroleum Chemistry* 62 (2022) 1047–1054.
130. Han W., J. Fan, H. Lv, Y. Yan, C. Liu, S. Dong, Excellent foaming properties of anionic-zwitterionic-Gemini cationic compound surfactants for gas well deliquification: Experimental and computational investigations, *Colloids and Surfaces A* 653 (2022) 129944.
131. Li W., B. Jiao, S. Li, S. Faisal, A. Shi, W. Fu, Y. Chen, Q. Wang, Recent advances on Pickering emulsions stabilized by diverse edible particles: Stability mechanism and applications, *Frontiers in Nutrition* 9 (2022) 864943.
132. Ma K., P. Li, Z. Wang, Y. Chen, M. Campana, J. Douth, R. Dagliesh, A. Maestro, R.K. Thomas, J. Penfold, Strong synergistic interactions in zwitterionic–anionic surfactant mixtures at the air–water interface and in micelles: The role of steric and electrostatic interactions, *Journal of Colloid and Interface Science* 613 (2022) 297–310.
133. Ouverney Ferreira M., H.F. Camara de Assis, A.M. Percedom, Cocamidopropyl betaine can behave as a cationic surfactant and electrostatically associate with polyacids of high molecular weight, *Colloids and Surfaces A* 654 (2022) 130123.
134. Park K., J. Lim, Synthesis of phospholipid based zwitterionic surfactant from coconut oil source and characterization of their interfacial, antiseptic and antiviral properties, *Journal of Industrial and Engineering Chemistry* 115 (2022) 241–250.

135. Parus A., N. Lisiecka, J. Zembrzuska, G. Framski, M. Wozniak-Karczewska, M. Niemczak, Evaluation of the influence of different cations on the mobility and performance of dicamba-based ionic liquids. *Journal of Environmental Chemical Engineering* 10 (2022) 108397.
136. Tazikeh S., A. Shafiei, T. Yerkenov, A. Abenov, N. Seitmaganbetov, T.Sh. Atabaev, A systematic and critical review of asphaltene adsorption from macroscopic to microscopic scale: Theoretical, experimental, statistical, intelligent, and molecular dynamics simulation approaches, *Fuel* 329 (2022) 125379.
137. Towesend V.J., Misturas de bis-(2-hidroxietyl) cocoalquilamina (C12) e outros surfactantes para obtenção de espumas estáveis contendo CO<sub>2</sub> em condições de salinidade, alta pressão e temperatura, PhD Thesis, PUC, Rio de Janeiro, Brasil, 2022.
138. Towesend V.J., E.J. Creatto, L.G. Pedroni, A. Perez-Gramatges, Synergism in binary surfactant mixtures containing a pH-responsive surfactant towards enhanced foam stability in brine at high pressure and high temperature conditions, *Colloid Surfaces A* 648 (2022) 129433.
139. Warszynski P., L. Szyk-Warszynska, K.A. Wilk, Lamch, Adsorption of cationic multicharged surfactants at liquid-gas interface, *Current Opinion in Colloid and Interface Science* 59 (2022) 101577.
140. Xiong D., S. Ahmed, W. Alameri, E.W. Al-Shalabi, Experimental evaluation of amphoteric and switchable surfactants for improving foam performance under harsh reservoir conditions, *Offshore Technology Conference Asia, Virtual and Kuala Lumpur, Malaysia, March 2022. Paper Number: OTC-31334-MS.*
141. Zhou J., P.G. Panjith, Insights into interfacial behaviours of surfactant and polymer: A molecular dynamics simulation, *Journal of Molecular Liquids* 346 (2022) 117865.
142. Dong J., S. Dong, Z. Miao, Q. Wang, Y. Li, C. Qu, G. Chen, Разработка вискоэффективного комплексного поверхностно-активного вещества для пенного дренажа в газовых скважинах, *Нефтехимия* 62 (2022) 884–892.
143. Anagnosti L., Advanced aesthetics and cosmetic science: Development quality control and safety of new cosmetic products, PhD Thesis, University of West Athica, Greece, 2023.
144. Al-Darweesh J., M.S. Aljavad, M. Al-Ramadan, S. Elkatatny, M. Mahmoud, S. Patil, Review of underbalanced drilling techniques highlighting the advancement of foamed drilling fluids, *Journal of Petroleum Exploration and Production Technology* 13 (2023) 929–958.
145. Benzemra N., L. Tennouga, B. Bouras, K. Madjahed, H. Abdelkader, Ion pair [NaCMC-CAPB] complex formed via interaction of carboxymethylcellulose sodium salt (NaCMC) with cocamidopropyl betaine (CAPB), *Physical Chemistry Research* 11 (2023) 549–558.
146. Cui X.-L., Y. Pan, F.-T. Hu, L. Han, X.-Y. Zhu, L. Zhang, Z.-H. Zhou, G. Li, G.-Y. Ma, L. Zhang, Dynamic interfacial tensions of surfactant and polymer solutions related to high-temperature and high-salinity reservoir, *Molecules* 28 (2023) 1279.
147. Grady B.P., Surfactant mixtures: A short review, *Journal of Surfactants and Detergents* 26 (2023) 237–250.
148. Kim D. S. Hayashi, H. Matsuoka, Y. Saruwatari, Effect of Hydrophobicity and Salt on the Temperature Responsiveness of Polymeric Micelles Consisting of Hydrophobic and Sulfobetaine Chains, *Langmuir* 39 (2023) 1444–1455.
149. Lai L., T. Zhang, C. Zheng, Study of foam drainage agent base on g-C<sub>3</sub>N<sub>4</sub> nanosheets reinforced stabilization, *Colloids Surfaces A* 657 (2023) 130607.
150. Li S., Z. Zhang, Y. Liu, J. Wang, K. Yang, D. Chen, Z. Liang, Z. Li, Antibacterial and biodegradable keratin-based quaternary ammonium salt surfactant potential as hair care additive, *Journal of Dispersion Science and Technology* 44 (2023) 2555–2564.
151. Lv S., Q. Liu, S. Dong, J. Li, J. Zhang, M. Wang, G. Chen, Preparation and the foaming activity hydroxymethyl octadecyltrimethyl ammonium chloride, *Tenside Surfactants Detergents* 60 (2023) 182–189.
152. Sun X., J. Ge, X. Shi, Surfactant–polymer binary oil-displacement agents suitable for multiple oilfield blocks, *Journal of Dispersion Science and Technology* 44 (2023) 1607–1617.
153. Wei Z., H. Fan, J. Zhang, S. Liu, Y. Yang, L. Yang, S. Liu, J. Li, J. Liu, Synergistic effects of surfactant and polymer on the viscosity and oil displacement efficiency, *Colloids and Surfaces A* 676 (2023) 132245.
154. Xiong D., S. Ahmed, W. Alameri, E.W. Al-Shalabi, Experimental Evaluation of Zwitterionic and Cationic Surfactants to Optimize Bulk Foam Properties for Gas Mobility Control in High-Salinity Carbonates, *Energy and Fuels* 37 (2023) 260–272.
155. Xu D., W. Lian, S. Chen, Y. Yi, W. Kang, Rheology, microelasticity and structural properties of OAPB-SDS mixtures at different temperature and pH conditions, *Journal of Molecular Liquids* 386 (2023) 122570.
156. Liu Q.C., Q.H. Zhang, Z.H. Ren, Z.P. Deng, Q.L. Wu, J.Q. Wang, Effect of glycerol on micellization of quasi-binary mixture of zwitterionic cocamidopropyl hydroxysultaine and cetyltrimethylammonium bromide in aqueous solution, *Colloids and Surfaces A* 683 (2024) 133063.
157. Kou X., M. Hong, F. Pan, X. Huang, M. Qingran, Y. Zhang, Q. Ke, Inhibitory effects of nobiletin-mediated interfacial instability of bile salt emulsified oil droplets on lipid digestion, *Food Chemistry* 444 (2024) 138751.

158. Zhu Z., J. Zhang, F. Wang, W. Leng, L. Dang, H. Wei, Synergistic Effect and Phase Behavior of SCG-CAPB-H<sub>2</sub>O Ternary Compound System, *Applied Science* 14 (2024) 3081.
  159. Jiang J., M. Shi, Z. Xia, Y. Cheng, Z. Chu, W. Zang, J. Li, J. You, X. Zhang, Efficient pure-red perovskite light-emitting diodes with strong passivation via ultrasmall-sized molecules, *Science Advances* 10 (2024) .
  160. Baigadilov A., S. Colombano, M. Cochenec, D. Davarzani, F. Lion, L. Oxarango, H. Bodiquel, Surfactant foam injection for remediation of diesel-contaminated soil: A comprehensive study on the role of co-surfactant in foaming formulation enhancement, *Science of the Total Environment* 930 (2024) 172631.
- 110 J.K. Angarska, B.S. Dimitrova, K.D. Danov, P.A. Kralchevsky, K.P. Ananthapadmanabhan, A. Lips, Detection of the hydrophobic surface force in foam films by measurements of the critical thickness of the film rupture, *Langmuir* 20 (2004) 1799–1806. (брой: 83)**
1. Postema M., P. Marmottant, C.T. Lancee, S. Hilgenfeldt, N.D. Jong, Ultrasound-induced microbubble coalescence, *Ultrasound Medicine Biology* 30 (10) (2004) 1337–1344.
  2. Rimmer H.W., Establishment of the Center for Advanced Separation Technologies, Ann. Pechnical Progress Report, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA, 2004.
  3. Wang L., R.–H. Yoon, Hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: effect of electrolyte, *Langmuir* 20(26) (2004) 11457–11464.
  4. Geyl L., Drop through liquid flm, Thesis, Royal Institute of Technology, Department of Signals, Sensors and Systems, Stockholm, 2005.
  5. Hull C.E., Crosscutting technology development at the center for advenced separation technologies, Technical Report DE-FC26-02NT41607, Ceneter for Advenced Separaton Technologies, Virginia Polytechnic Institute, 2005.
  6. Tcholakova S., N.D. Denkov, D. Sidzhakova, I.B. Ivanov, B. Campbell, Effects of electrolyte concentration and pH on the coalescence skontogtability of  $\beta$ -lactoglobulin emulsions: experiment and interpretation, *Langmuir* 21(11) (2005) 4842–4855.
  7. Wang L.G., R.–H. Yoon, Hydrophobic forces in thin aqueous films and their role in film thinning, *Colloids Surfaces A* 263(1–3) (2005) 267–274.
  8. Wang L.G., R.–H. Yoon, Hydrophobic interactions between the air bubbles in water, in: C.A. Young, J.J. Kellar, M.L. Free, J. Drelich, P. King (Eds.), *Innovations in Natural Resource Processing: Proceedings of the Jan D. Miller Symposium*, Publisher: Society of Mining Metallurgy and Exploration, Littleton Co, USA, 2005, pp. 125–138.
  9. Wang L.G., R.–H. Yoon, Stability of foams and froths in the presence of ionic and non-ionic surfactants, *Australasian Institute of Mining and Metallurgy Publication Series* (2005) 635–641.
  10. Zhang J., R.–H. Yoon, M. Mao, W.A. Ducker, Effects of degassing and ionic strength on AFM force measurements in octadecyltrimethylammonium chloride solutions, *Langmuir* 21(13) (2005) 5831–5841.
  11. Grassia P., S.J. Neethling, C. Cervantes, H.T. Lee, The growth, drainage and bursting of foams, *Colloids Surfaces A* 274(1–3) (2006) 110–124.
  12. Wang L., R.–H. Yoon, Role of hydrophobic force in the thinning of foam films containing a nonionic surfactant, *Colloids Surfaces A* 282–283 (2006) 84–91.
  13. Wang L., R.–H. Yoon, Stability of foams in the presence of ionic and non-ionic surfactants, *IMPC 2006, Proceedings*, 2006, 453–458.
  14. Wang L., Surface Forces in Foam Films, PhD Thesis, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA, 2006.
  15. Wang L.G., R.–H. Yoon, Stability of foams and froths in the presence of ionic and non-ionic surfactants, *Minerals Engineering* 19(6–8) (2006) 539–547.
  16. Zhao H., F.–S. Lu, P.–Q. Li, Effect of different factors on phase behavior in cyhalothrin microemulsion, *Acta Phys. Chim. Sin.* 22(4) (2006) 475–480.
  17. Eriksson J.C., U. Henriksson, Bridging-cluster model for hydrophobic attraction, *Langmuir* 23(20) (2007) 10026–10033.
  18. Froth Flotation: a century of innovation, Fuerstenau M.C., Jameson C., Yoon R.–H., Eds., 2007, p. 170.
  19. Karakashev S.I., A.V. Nguyen, E.D. Manev, A novel technique for improving interferometric determination of emulsion film thickness by digital filtration, *J. Colloid Interface Science* 306(2) (2007) 449–453.
  20. Karakashev S.I., V.A. Nguyen, Effect of sodium dodecyl sulphate and dodecanol mixtures on foam film drainage: examining influence of surface rheology and intermolecular forces, *Colloids Surfaces A* 293(1–3) (2007) 229–240.



21. Stubenrauch C., D. Langevin, D. Exerowa, E. Manev, P.M. Claesson, L.B. Boinovich, R.V. Klitzing, Comment on "hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: Effect of electrolyte" and subsequent criticism, *Langmuir* 23(24) (2007) 12457–12460.
22. Wang L., R.-H. Yoon, Effects of surface forces and film elasticity on foam stability, *International Journal of Mineral Processing* 85 (4) (2008) 101–110.
23. Weon B.M., J.H. Je, Y. Hwu, G. Margaritondo, Stable freestanding thin films of pure water, *Appl. Phys. Letters* 92 (2008) Pap. No. 104101.
24. Yoon R.-H., L. Wang, A response to the comment on "hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: Effect of electrolyte", *Langmuir* 24(9) (2008) 5194–5196.
25. Henry C., Bubbles, Thin Films and Ion Specificity, PhD Thesis, The Australian National University, 2009.
26. Karakashev S.I., V.A. Nguyen, Do liquid films rupture due to the so-called hydrophobic force or migration of dissolved gases? *Langmuir* 25(6) (2009) 3363–3368.
27. Pan L., Hydrophobic forces in wetting films, Thesis, Virginia polytechnic Institute and State University, 2009.
28. Qu X., L. Wang, S.I. Karakashev, A.V. Nguyen, Anomalous thickness variation of the foam films stabilized by weak non-ionic surfactants, *Journal of Colloid and Interface Science* 337(2) (2009) 538–547.
29. Qu X., L. Wang, A. Nguyen, Surface forces in thin foam films stabilized by nonionic surfactants, *Chemeca 2010, Engineering at the Edge*, 26-29 September 2010, Hiron Adelaide, South Australia, 2010, 1561–1572.
30. Wang L., R.-H. Yoon, Effect of pH and NaCl concentration on the stability of surfactant-free foam films, *Langmuir* 25(1) (2009) 294–297.
31. Wang L., R.-H. Yoon, Effect of pH and NaCl concentration on the stability of surfactant-free foam films, *SME Annual Meeting and Exhibit and CMA's 111th National Western Mining Conference 2009* 2 (2009) 810–814.
32. Nguyen P.T., A.V. Nguyen, Drainage, rupture, and lifetime of deionized water films: Effect of dissolved gases? *Langmuir* 26(5) (2010) 3356–3363.
33. Del Castillo L.A., S. Ohnishi, R.G. Horn, Inhibition of bubble coalescence: Effects of salt concentration and speed of approach, *J. Colloid Interface Sci.* 356(1) (2011) 316–324.
34. Mishchuk N.A., The model of hydrophobic attraction in the framework of classical DLVO forces, *Advances in Colloid and Interface Science* 168(1–2) (2011) 149–166.
35. Yoon R.-H., L. Wang, Hydrophobic forces in foam films, in: Tadros T.F. (ed) *Colloid Stability: The Role of Surface Forces*, Wiley, 2011, Ch. 7.
36. Do H., Predicting the critical rupture thickness of free foam films, *대한기계학회 2012년도 추계학술대회 논문집*, 11 (2012) 1520–1525.
37. Ochanda F.O., M.A. Samaha, H.V. Tafreshi, G.C. Tepper, M. Gad-El-Hak, Salinity effect on the degree of hydrophobicity and longevity for superhydrophobic fibrous coatings, *J. Applied Polymer Science* 124(6) (2012) 5021–5026.
38. Wang L., Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants, *Int. Journal of Mineral Processing* 102–103 (2012) 58–68.
39. Wang L., Inter-bubble attractions in aqueous solutions of flotation frothers, *Separation Technologies for Minerals, Coal, and Earth Resources, International Symposium* (2012) 35–45.
40. Wang L., X. Qu, Impact of interface approach velocity on bubble coalescence, *Mineral Engineering* 26(1) (2012) 50–56.
41. Bournival G., Z. Du, S. Ata, G.J. Jameson, Foaming and gas dispersion properties of non-ionic surfactants in the presence of an inorganic electrolyte, *Chemical Engineering Science* 116 (2014) 536–546.
42. Firuozzi M., Drainage and stability of foam films during bubble coalescence in aqueous salt solutions, PhD Thesis, School of Chemical Engineering, University of Queensland, AU, 2014.
43. Park C., A systematic analysis of foam drainage and stability: Measurements, mechanisms, and implications for anaerobic digester foaming, PhD Thesis, Graduate Division, University of Berkeley, 2014.
44. Rio E., A.-L. Biance, Thermodynamic and mechanical timescales involved in foam film rupture and liquid foam coalescence, *ChemPhysChem* 15(17) (2014) 3692–3707.
45. Shahalami S., Study of non-equilibrium interactions between an air bubble and a hydrophilic/hydrophobic solid surface with the non-linearized Stokes-Reynolds-Young-Laplace model (NSRYL model), PhD Thesis, Department of Chemical and Material Engineering, University of Alberta, 2014.
46. Wang L., Modeling of bubble coalescence in saline water in the presence of flotation frothers, *International Journal of Mineral Processing* 134 (2015) 41–49.
47. Rane K., N.F.A. Van der Vegt, Understanding the influence of capillary waves on solvation at the liquid-vapor interface, *Journal of Chemical Physics* 114(11) (2016) 114111.

48. Rane K., N.F.A. Van der Vegt, Using grand canonical Monte Carlo simulations to understand the role of interfacial fluctuations on solvation at the water-vapour interface, *Journal of Physical Chemistry B* 120(36) (2016) 9697–9707.
49. Wang L., Prediction of the critical rupture thickness of foam films formed from saline water in the presence of flotation frothers, *IMPC 2016*, 135047.
50. Azadzadeh Shahir A., D. Arabadzieva, H. Petkova, S.I. Karakashev, A.V. Nguyen, E. Mileva, Effect of under-monolayer adsorption on foamability, rheological characteristics, and dynamic behavior of fluid interfaces: Experimental evidence for the Guggenheim extended interface model, *Journal of Physical Chemistry C* 121(21) (2017) 11472–11487.
51. Bournival G. S. Ata, G.J. Jameson, Bubble and froth stabilizing agents in froth flotation, *Mineral Processing and Extractive Metallurgy Review* 38(6) (2017) 366–387.
52. Firouzi M., A.V. Nguyen, The Gibbs-Marangoni stress and nonDLVO forces are equally important for modeling bubble coalescence in salt solution, *Colloids Surfaces A* 515 (2017) 62–68.
53. Gao Y., L. Pan, Measurement of instability of thin liquid films by synchronized tri-wavelength reflection interferometry microscope, *Langmuir* 34 (2018) 14215–14225.
54. Langley K.R., E.Q. Li, S.T. Toroddsen, High-speed interferometry under impacting drops, in: *The Micro-World Observed by Ultra High-Speed Cameras*, Springer, 2018, 321–341.
55. Park S., K. Huang, R.-H. Yoon, Predicting bubble coarsening in flotational froth: Effect of contact angle and particle size, *Mineral Engineering* 127 (2018) 256–264.
56. Rane K., Fluctuations and adsorption at liquid-vapor interfaces, *Physical Chemistry of Gas-Liquid Interfaces* (2018) 59–78.
57. Schwehr K.A. C. Xu, M.-H. Chiu, A. Quigg, P.H. Santschi, Protein: Polysaccharide ratio in exopolymeric substances controlling the surface tension of seawater in the presence or absence of surrogate Macondo oil with and without Corexit, *Marine Chemistry* 206 (2018) 84–92.
58. Shahir A.A., K. Khristov, K.T. Nguyen, A.V. Nguyen, E. Mileva, Combined sum frequency generation and thin liquid film study of the specific effect of monovalent cations on the interfacial water structure, *Langmuir* 34 (2018) 6844–6855.
59. Langley K.R., Air entrapment under a liquid drop impacting onto a solid or liquid surface, PhD Thesis, KAUST, Kingdom of Saudi Arabia, 2019.
60. Rasitha T.P., S.C. Vanithakumari, P.P. George, J. Philip, Template-free one-step electrodeposition method for fabrication of robust superhydrophobic coating on ferritic steel with self-cleaning ability and superior corrosion resistance, *Langmuir* 35 (2019) 12665–12679.
61. Rivera J.L., J.F. Douglas, Influence of film thickness on the stability of free-standing Lenard-Jones fluid films, *Journal of Chemical Physics* 150(14) (2019) 144705.
62. Chatzigiannakis E., J. Vermant, Breakup of thin liquid films: From stochastic to deterministic, *Physical Review Letters* 125 (2020) 158001.
63. Chatzigiannakis E., P. Veenstra, D. Ten Bosch, J. Vermant, Mimicking coalescence using a pressure-controlled dynamic thin film balance, *Soft Matter* 16 (2020) 9410–9422.
64. Manoj T.P., T.P. Rasitha, S.C. Vanithakumari, B. Anandkumar, R.P. George, J. Philip, A simple, rapid and single step method for fabricating superhydrophobic titanium surfaces with improved water bouncing and self cleaning properties, *Applied Surface Science* 512 (2020) 145636.
65. Roberto P.-G., B.-T. Arturo, Coalescence of air bubbles: Effect of the electrical double layer, *Minerals Engineering* 150 (2020) 106310.
66. Bournival G., F. Zhang, S. Ata, Coal flotation in saline water: Effects of electrolytes on interfaces and industrial practice, *Mineral Processing and Extractive Metallurgy Review* 42 (2021) 53–73.
67. Chatzigiannakis E., N. Jaensson, J. Vermant, Thin liquid films: Where hydrodynamics, capillarity, surface stresses and intermolecular forces meet, *Current Opinion in Colloid and Interface Science* 53 (2021) 101441.
68. Chatzigiannakis E., Thin liquid films: Where hydrodynamics, capillary, interfacial stresses, and intermolecular forces meet, Ph.D. Thesis, ETH Zurich, 2021.
69. Gonzalez-Mijangos J.A., E. Lima, R. Guerra-Gonzalez, R.I. Ramfrez-Zavaleta, J.L. Rivera, Critical thickness of free-standing nanothin films made of melted polyethylene chains via molecular dynamics, *Polymers* 13 (2021) 3515.
70. Pan Y., Synergistic and antagonistic effects of frothers, collector and salt on the stability of bubbles under static and dynamic conditions, PhD Thesis, Faculty of Engineering, School of Minerals and Energy Resources Engineering, Australia, 2021.
71. Vanithakumari S.C., A. K. Choubey, C. Trinaharan, R.K. Gupta, R.P. George, R. Kaul, K.S. Bindra, J. Philip, Laser patterned titanium surfaces with superior antibiofouling, superhydrophobicity, self-cleaning and durability: Role of line spacing, *Surface and Coating Technology* 418 (2021) 127257.

72. Zhou Y., Z. Han, C. He, Q. Feng, K. Wang, Y. Wang, N. Luo, G. Doddiba, Y. Wei, A. Otsuki, T. Fujita, long-term stability of different kinds of gas nanobubbles in deionized and salt water, *Materials* 14 (2021) 1808.
  73. Carrera C.A.S., Determinación de tiempos de coalescencia de burbujas en un sistema dinámico de burbujeo mediante técnicas computacionales de procesamiento de imágenes, PhD Thesis, Universidad del Bio-Bio Chile.
  74. Li Y., C. Pan, On the rupture of bubble foam in subcooled flow boiling of seawater in a vertical annulus, *Journal of Heat and Mass Transfer* 194 (2022) 123061.
  75. Hassan E., A.T. Abbas, K.M. Abbas, A.H. Mohammadi, Experimental investigation of foam flooding using anionic and nonionic surfactants: A screening scenario to assess the effects of salinity and pH on foam stability and foam height, *ACS Omega* 7 (2022) 14832–14847.
  76. Ramfrez-Zavaleta F.I., Torres-Domiguez V.M., Viramontes-Gamboa G., Rivera J.L., Interfacial forces in free-standing layers of melted polyethylene, from critical to nanoscopic thicknesses, *Polymers* 14 (2022) 3865.
  77. Yoon R.-H., L. Wang, Hydrophobic forces in foam films, *Colloids and Interface Science Series* 6 (2014) 161–186.
  78. Dai Y., M. Li, B. Ji, X. Wang, S. Yang, P. Yu, S. Wang, C. Hao, Z. Wang, Liquid metal droplets bouncing higher on thicker water layer, *Nature Communications* 14 (2023) 3532.
  79. Han Z., H. Chen, C. He, G. Doddiba, A. Otsuki, Y. Wei, T. Fujita, Nanobubble size distribution measurement by interactive force apparatus under an electric field, *Scientific Reports* 13 (2023) 3663.
  80. Vanithakumari S.C., C.C. Johnson, J. Philip, Facile fabrication of superhydrophobic steel surfaces with self-cleaning ability using nickel myristate/PDMS bilayer coating, *Surface and Coatings Technology* 467 (2023) 129712.
  81. Xu M., F. Guo, X. Bao, X. Gui, Y. Xing, Y. Cao, Study on the Strengthening Mechanism of a MIBC-PEG Mixed Surfactant on Foam Stability, *ACS Omega* 8 (2023) 27429–27438.
  82. Zhang Y., S. Yan, Z. Bai, Effect of salt addition on the coalescence process of droplets on fiber, *Chemical Engineering Science* 274 (2023) 118628.
  83. Deng W., R. Wang, S. Zhu, M. Hu, G. Chen, L. Wang, Y. Su, Eco-friendly and facile method of superhydrophobic surface fabricating on 304 stainless steel substrates with fluorine-free agents, *Surface and Coating Technology* 478 (2024) 130445.
- 109 K.D. Tachev, K.D. Danov, P.A. Kralchevsky, On the mechanism of stomatocyte–echinocyte transformations of red blood cells: experiment and theoretical model, *Colloids Surfaces B* 34 (2004) 123–140. (брой: 62)**
1. Gonzales L.J., The influence of membrane lipid order on cell shape and microvesiculation in human erythrocytes, PhD Thesis, Brigham University, 2006.
  2. Pawlowski P.H., B. Burzynska, P. Zielenkiewicz, Theoretical model of reticulocyte to erythrocyte shape transformation, *J. Theoretical Biology* 243(1) (2006) 24–38.
  3. Goršek J., Osmotic volume changes in human erythrocyte due to effects of  $Hg^{2+}$ ,  $Pb^{2+}$  and  $Cd^{2+}$  on membrane channels, PhD Thesis, Biotechnical Faculty, University of Ljubljana, Slovenia, 2007.
  4. Zhongliang G., Y. Zhong, T. Jianping, Research on the influence of hemotocrit on the stability of blood lubrication, *Lubrication Engineering* 32(2) (2007) 23–25.
  5. Camilla K., Aplicação de técnicas ópticas em amostras biológicas, PhD Thesis, UFMG, 2008.
  6. Fisher T.H., C.R. Valeri, C.J. Smith, C.M. Scull, E.P. Merricks, T.C. Nichols, M. Demcheva, J.N. Vournakis, Non-classical processes in surface hemostasis: Mechanisms for the poly-N-acetyl glucosamine-induced alteration of red blood cell morphology and surface prothrombogenicity, *Biomedical Materials* 3 (1) (2008) 015009.
  7. Kabanov D.S., A.Yu. Ivanov, M. Melzer, I.R. Prokhorenko, Effects of surface proteins of human erythrocyte membrane on the interaction with lipopolysaccharides from *Escherichia coli* O55:B5, *Biochemistry, Supplemental Series A* 2(2) (2008) 128–132.
  8. Kabanov D.S., A.Yu. Ivanov, M. Melzer, I.R. Prokhorenko, Influence of human erythrocyte surface proteins on their interaction with lipopolysaccharides from *Escherichia coli* O55:B5, *Biologicheskie Membrany* 25 (2008) 117–121.
  9. Maya G.C., Utilidad clinica del extendido de sangre periferica: los eritrocitos, *Medicina & Laboratorio* 14(7-8) (2008) 311–357.
  10. Sebastian J.L., S. Munoz, M. Sancho, G. Alvarez, Polarizability of shelled particles of arbitrary shape in lossy media with an application to hematic cells, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 78(5) (2008) 051905.
  11. Smith C.J., J.B. Vournakis, M. Demcheva, T.H. Fisher, Differential effect of materials for surface hemostasis of red blood cell morphology, *Microscopy Research and Technique* 71 (2008) 721–729.

12. Cechovska-Pasko M., Endoplasmic reticulum chaperons, *Postepy Bichemii* 55(4) (2009) 416–424.
13. He J., J. Lin, J. Li, J.–H. Zhang, X.–M. Sun, C.–M. Zeng, Dual effects of Ginkgo biloba leaf extract on human red blood cells, *Basic and Clinical Pharmacology and Toxicology* 104(2) (2009) 138–144.
14. Huang B., J. He, J. Ren, X.–Y. Yan, C.–M. Zeng, Cellular membrane disruption by amyloid fibrils involved intermolecular disulfide cross–linking, *Biochemistry* 48(25) (2009) 5794–5800.
15. Rudenko S.V., Characterization of morphological response of red cells in a sucrose solution, *Blood Cells, Molecules, and Diseases* 42(3) (2009) 252–261.
16. Rudenko S.V., Low concentration of extracellular hemoglobin affects shape of RBC in low ion strength sucrose solution, *Bioelectrochemistry* 75(1) (2009) 19–25.
17. Stasiuk M., G. Kijanka, A. Kozubek, Transformation of erythrocytes shape and its regulation, *Postepi Biochemii* 55(4) (2009) 426–433.
18. Yijing X., W. Jiugen, Review of blood rheology and integrated surface texture of artificial liver, 2009, paper.edu.cn.
19. Munoz S., J.L. Sebastian, M. Sancho, G. Martinez, Analysis of radiofrequency energy stored in the altered shapes: Stomatocyte–echinocyte of human erythrocytes, *Bioelectrochemistry* 77(2) (2010) 158–161.
20. Rudenko S.V., Erythrocyte morphological states, phases, transitions and trajectories, *Biochimica et Biophysica Acta – Biomembranes* 1798(9) (2010) 1767–1778.
21. Rudenko S.V., M.K. Saeid, Reconstruction of erythrocyte shape during modified morphological response, *Biochemistry–Moscow* 75(8) (2010) 1025–1031.
22. Siposan D.G., S. Bobe, Effect of hene laser on stored blood, *Laser Therapy* 19 (2010) 245–255.
23. Xie Y., J. Wang, Review of blood rheology and integrated surface texture of artificial liver, *Highlights of Science Paper* 3(4) (2010) 320–325.
24. Suwalski M., M. Manrique-Moreno, J. Howe, K. Brandenburg, F. Vilena, Molecular interactions of mefenamic acid with lipid bilayers and red blood cells, *Journal of Brazilian Chemical Society* 22(12) (2011) 2243–2249.
25. Калянов А.Л., Полнополная сканирующая низкокогерентная микроинтерферометрия, Дисертация, Саратовский Гос. Техн. Университет, 2011.
26. Bonarska-Kujawa D., H. Kleszczynska, S. Przestalski, The location of organotins within erythrocyte membrane in relation to their toxicity, *Ecotoxicology and Environmental Safety* 78(1) (2012) 232–238.
27. Davidson R.M., S. Seneff, The initial common pathway of inflammation, disease, and sudden death, *Entropy* 14(8) (2012) 1399–1342.
28. Fan W., W. Yan, Z. Xu, H. Ni, Erythrocytes load of low weight chitosan nanoparticles as a potential vascular drug delivery system, *Colloids Surfaces B* 95 (2012) 258–265.
29. Rojas-Aguirre Y., F. Hernandez-Luis, C. Mendoza-Martines, C.P. Sotomayor, L.F. Aguilar, F. Villena, I. Castillo, D.J. Hernandez, M. Suwalsky, Effect of an antimalarial quinazoline derivative on human erythrocytes and on cell membrane molecular models, *Biochimica et Biophysica Acta – Biomembranes* 1818(3) (2012) 738–746.
30. Rudenko S.V., M.K. Saeed, Do two types of cells exist in population of human erythrocytes? *Дни науки* 2012.
31. Wloch A., J. Oszmianski, J. Sarapuk, H. Kleszczynska, The effect of Hypericum perforatum extract on the properties of erythrocyte membrane, *J. Medical Plants Research* 6(21) (2012) 3766–3773.
32. Hajjawi O.S., Ionic and osmotic equilibria of human red blood cells, *American Journal of Scientific Research* 86 (2013) 177–187.
33. Larkin T.J., G. Pages, B.E. Chapman, J.E.J. Rasko, P.W. Kuchel, NMR q-space analysis of canonical shapes of human erythrocytes: stomatocytes, discocytes, spherocytes, and echinocytes, *European Biophysical Journal* 42(1) (2013) 3–16.
34. Talafova K., E. Hrabarova, D. Chorvat, J. Nahalka, Bacterial inclusion bodies as potential synthetic devices for pathogen recognition and a therapeutic substance release, *Microbial Cell Factories* 12 (2013) 16.
35. Cines D.B., T. Lebedeva, C. Nagaswami, V. Hayes, W. Massefski, R.I. Litvinov, L. Rauova, T.J. Lowery, J.W. Weisel, Clot contraction: Compression of erythrocytes into tightly packed polyhedra and redistribution of platelets and fibrin, *Blood* 123(10) (2014) 1596–1603.
36. Pretorius E., J. Bester, N. Vermeulen, B. Lipinski, G.S. Gericke, D.B. Kell, Profound morphological changes in the erythrocytes and fibrin networks of patients with hemochromatosis or with hyperferritinemia, and their normalization by iron chelators and other agents, *PLoS ONE* 9(1) (2014) e85271.
37. Andrews J., S. Das, Effect of finite ion sizes in electric double layer mediated interaction force between two soft charged plates, *RSC Advances* 5(50) (2015) 46873–46880.
38. Chen G., S. Das, Electrostatics of soft charged interfaces with pH-dependent charge density: Effect of consideration of appropriate hydrogen ion concentration distribution, *RSC Advances* 5(6) (2015) 4493–4501.



39. Fathi-Azarbayjani A., A. Joyban, Surface tension in human pathophysiology and its application as a medical diagnostic tool, *BioImpacts* 5(1) (2015) 29–44.
40. Jaferzadeh K., I. Moon, Quantitative investigation of red blood cell three-dimensional geometric and chemical change in the storage lesion using digital holographic microscopy, *Journal of Biomedical Optics* 20(11) (2015) 111218.
41. McDaniel K., F. Valcius, J. Andrews, S. Das, Electrostatic potential distribution of a soft spherical particle with a charged core and pH-dependent charge density, *Colloids Surfaces B* 127 (2015) 143–147.
42. Jian Y., F. Li, Y. Liu, L. Chang, Q. Liu, L. Yang, Electrokinetic energy conversion efficiency of viscoelastic fluids in a polyelectrolyte-grafted nanochannel, *Colloids and Surfaces B* 156 (2017) 405–413.
43. Tsivadza A.Yu., M.Sh. Khubutiya, E.K. Evseev. I.V. Goroncharovskaya, A.I. Shapiro, O.V. Batishchev, M/M/ Goldin, Electrochemical activity and morphology of human erythrocytes at optically transparent ITO electrode, *Doklady Physical Chemistry* 477(1) (2017) 201–204.
44. Balanant M.A., Experimental studies of red blood cells during storage, PhD Thesis, School of Chemistry, Queensland University of Technology, 2018.
45. Sun J.-S., U.-H. Kim, Ion size effect on electrostatic and electroosmotic properties in soft nanochannels with pH-dependent charge density, *Physical Chemistry Chemical Physics* 20(35) (2018) 22961–22971.
46. Tutwiler V., A.R. Mukhitov, A.D. Peshkova, G. LeMinh, R.R. Khismatullin, J. Viksman, C. Nagaswami, R.I. Litvinov, J.W. Weisel, Shape changing of erythrocytes during blood clot contraction and the structure of polyhedrocytes, *Scientific Reports* 8(1) (2018) 17907.
47. Li F., Y. Jian, Solute dispersion generated by alternating current electric field through polyelectrolyte-grafted nanochannel with interfacial slip, *International Journal of Heat and Mass Transfer* 141 (2019) 1066–1077.
48. Geekiyanage N.M., M.A. Balanant, E. Sauret, S. Saha, R. Flower, C.T. Lim, Y.T. Gu, A coarse-grained red blood cell membrane model to study stomatocyte-discocyte-echinocyte morphologies, *PLoS ONE* 14(4) (2019) e0215447.
49. Goktas P., I.O. Sukharevsky, S.-J. Jang, S.-H. Yun, A. Altintas, Cell morphology-based classification in red blood cells by angle-resolved electromagnetic scattering approach, 2018 IEEE APSURSI 2018 (2019) 8608366.
50. Geekiyanage N.M., E. Sauret, S. Saha, R. Flower, Y.T. Gu, Deformation behaviour of stomatocyte, discocyte and echinocyte red blood cell morphologies during optical tweezers stretching, *Biomechanics and Modeling in Mechanobiology* 19 (2020) 1827–1843.
51. Logviniuk D., M. Fridman, Serum prevents interactions between antimicrobial amphiphilic aminoglycosides and plasma membranes, *ACS Infection Diseases* 6 (2020) 3212–3223.
52. Evseev A.K., A.I. Kolesnikova, I.V. Goroncharovskaya, E.V. Trusova, A.I. Kostin, A.K. Shabanov, M.M. Goldin, S.S. Petrikov, The use of optically transparent electrodes to assess the quality of erythrocytes during their storage, *Tsitologiya* 63 (2021) 500–508.
53. Manriquo-Moreno M., M. Suwalsky, E. Patino-Gonzalez, E. Fandino-Devia, M. Jemiola-Rzeminska, Interaction of the antimicrobial peptide  $\Delta$ M3 with the *Staphylococcus aureus* membrane and molecular models, *Biochimica et Biophysica Acta – Biomembranes* 1863 (2021) 183498.
54. Evseev A.K., A.I. Kolesnikova, I.V. Goroncharovskaya, E.V. Trusova, A.I. Kostin, A.K. Shabanov, M.M. Goldin, S.S. Petrikov, The use of optically transparent electrodes to assess the quality of erythrocytes during storage, *Cell and Tissue Biology* 16 (2022) 184–191.
55. Jimenez-Martin J., K. Las Heras, A. Etxabide, J. Uranga, K. de la Caba, P. Guerrero, M. Igartua, E. Santos-Vizcaino, R.M. Hernandez, Green hemostatic sponge-like scaffold composed of soy protein and chitin for the treatment of epistaxis, *Materials Today Bio* 15 (2022) 100273.
56. Tampio J., M. Markowicz-Piasecka, A. Montaser, J. Rysa, A. Kauppinen, K.M. Huttunen, L-type amino acid transporter 1 utilizing ferulic acid derivatives show increased drug delivery in the mouse pancreas along with decreased lipid peroxidation and prostaglandin production, *Molecular Pharmaceutics* 19 (2022) 3806–3819.
57. Denisenko O.D., S.A. Perepelitsa, V.A. Sergunova, S.S. Lyapunova, L.S. Litvinova, Morphological changes in erythrocytes of newborns after perinatal hypoxia, *Cell and Tissue Biology* 17 (2023) 682–691.
58. Denisenko O.D., S.A. Perepelitsa, V.A. Sergunova, S.S. Lyapunova, L.S. Litvinova, Morphological changes in erythrocytes in neonates with perinatal hypoxia, *Tsitologiya* 65 (2023) 384–694.
59. Giosheva I., V. Strijkova, R. Komsa-Penkova, S. Krumova, A. Langari, A. Danailova, S.G. Taneva, T. Stoyanova, L. Topalova, E. Gartchev, G. Georgieva, S. Todinova, Membrane lesions and reduced life span of red blood cells in pre-eclampsia as evidenced by atomic force microscopy, *Molecular Science* 24 (2023) 7100.
60. Kusumawati I., S. Rullyansyah, M.F. Warsito, M. Zdulgornain, F. Nuraini, A.F. Rizka, Y.A. Pratama, R. Widyawati, E.P. Hestianah, K. Matsunami, Acute toxicity assessment of *graptophyllum oictum* (L.) gruff

- leaves ethanolic extract and its nanoformulations: Comparative study of phytosome and cyclodextrin inclusion complex, *Farmacia* 71 (2023) 72–82.
61. Wang J., F. Li, Electroosmotic flow and heat transfer through a polyelectrolyte-grafted microchannel with modulated charged surfaces, *International Journal of Heat and Mass Transfer* 216 (2023) 124545.
  62. Wang Z., P. Servio, A.D. Rey, Pattern formation, structure and functionalities of wrinkled liquid crystal surfaces: A soft matter biomimicry platform, *Frontiers in Soft Matter* 3 (2023) 1123324.
- 108 P.S. Denkova, V.S. Dimitrov, S.M. Bakalova, J. Kaneti, K.D. Danov, Application of the model-free approach to low molecular weight systems with hindered internal rotation: cinnamoylmesitylene, *Magn. Reson. Chem.* 41 (2003) 989–995. (брой: 2)**
1. Ludwig R., Nuclear spin relaxation, *Nuclear Magnetic Resonance*, Vol. 34 (2005) 217–252.
  2. Zhang W., M.-Y. Li, J. Quyang, W.-H. Lin, Z.-W. Deng, Effect of chemical exchange on NMR signals for structure analysis of omeprazole, *Journal of Beijing Normal University (Natural Science)* 42(2) (2006) 166–170.
- 107 K.D. Danov, D.S. Valkovska, P.A. Kralchevsky, Hydrodynamic instability and coalescence in trains of emulsion drops or gas bubbles moving through a narrow capillary, *J. Colloid Interface Sci.* 267 (2003) 243–258. (брой: 25)**
1. Yan L., Stability, Transport and Applications of Polyaphrons in Porous Media, PhD Thesis, Department of Chemical Engineering, Louisiana State University, Baton Rouge, 2005.
  2. Fingas M., L. Ka'ahue, Oil spill dispersion stability and oil re-surfacing, *Environment Canada Arctic and Marine Oil Spill Program Technical Seminar (AMOP) Proceedings* 2 (2006) 729–819.
  3. Yan L., K.E. Thompson, K.T. Valsaraj, A numerical study on the coalescence of emulsion droplets in a constricted capillary tube, *J. Colloid Interface Sci.* 298(2) (2006) 832–844.
  4. Kannan E.Y., Development of silsesquioxane-polyurethane nanocomposites for use in microvascular networks, PhD Thesis, University College London, 2007.
  5. Li Y., W.Z. Jia, Y.Y. Song, X.H. Xia, Superhydrophobicity of 3D porous copper films prepared using the hydrogen bubble dynamic template, *Chemistry of Materials* 19(23) (2007) 5758–5764.
  6. Oztaskin M.C., M. Worner, H.S. Soyhan, Numerical investigation of the stability of bubble train flow in a square minichannel, *Physcis of Fluids* 21(4) (2009) 042108.
  7. Allouch A., Microfluidique diphasique: reseaux de micro-bulles a defauts controles pour la photonique, PhD Thesis, , 2011.
  8. Azevedo B.N., M.S. Carvalho, interaction of two drops flowing through a microcapillary, *COBEM* 2013, 7212–7219.
  9. Guo X., X. Li, Y. Zheng, C. Lai, W. Li, B. Luo, D. Zhang, Effects of surfactants on high regularity of 3D porous nickel for  $Zn^{2+}$  adsorption application, *Journal of Nanomaterials* 2014 (2014) 358312.
  10. Saulnier L., J. Boos, C. Stubenrauch, E. Rio, Comparison between generations of foams and single vertical films-single mixed surfactant systems, *Soft Matter* 10(29) (2014) 5280–5288.
  11. Talley M.L., Bubble coalescence control development for level set interface tracking method, PhD Theses, Nuclear Engineering, North Carolina State University, 2014.
  12. Arjmandi-Tash O., N. Kovalchuk, A. Trybala, V. Starov, Foam drainage placed on a porous substrate, *Soft Matter* 11(18) (2015) 3643–3652.
  13. Galluccio L., A. Lombardo, G. Morabito, S. Palazzo, C. Panarello, G. Schembra, On the trendoff between data rate and error probability in discrete microfluidic, *ACM NANOCOM*, 2015. Code117617.
  14. Wang X., Numerical simulation of two-dimensional bubble dynamics and evaporation, PhD Thesis, Faculty of Engineering Science, KU Leuven, 2015.
  15. Wang X., B. Klaasen, J. Degreve, A. Mahulkar, G. Heynderickx, M.-F. Reyniers, B. Blanpain, F. Verhaeghe, Volume-of-fluid simulations of bubble dynamics in a vertical Helle-Shaw cell, *Physcis of Fluids* 28(5) (2016) 053304.
  16. Galluccio L., A. Lombardo, G. Morabito, S. Palazzo, G. Schembra, Capacity of a binary droplet-based microfluidic channel with memory and anticipation for flow-induced molecular communication, *IEEE Transactions on Communications* 66(1) (2018) 194–208.
  17. Kovalchuk N.M., E. Roumpea, E. Nowak, M. Chinaud, P. Angeli, M.J.H. Simmons, Effect of surfactants on emulsification in microchannels, *Chemical Engineering Science* 176 (2018) 139–152.
  18. Fingas M., Surface chemistry and oil-in-water emulsion stability, *Proceedings – 42 AMOP Technical Seminar on Environmental Contamination and Response*, 2019, 940–1023.
  19. Wang F., H. Li, D. Du, X. Dong, Investigation of dynamic texture and flow characteristics foam transport in porous media based on fractal theory, *Fractals* 27 (2019) 1940013.

20. Wang F., D. Du, H. Chen, C. Zhang, Simulation of evolution mechanism of dynamic interface of aqueous foam in narrow space base on level set method, *Colloids Surfaces A* 574 (2019) 1–11.
  21. Zhang C., F. Wang, Z. Li, H. Chen, Dynamic simulation and experimental verification of foam transport in porous media based on level set method, *Energy Science and Engineering* 7(5) (2019) 1795–1807.
  22. Wang C., Y. Mehmani, K. Xu, Capillary equilibrium of bubbles in porous media, *PNAS* 118 (2021) e2024069118.
  23. Mehmani Y., K. Xu, Pore-network modeling of Ostwald ripening in porous media: How do trapped bubbles equilibrate? *Journal of Computational Physics* 457 (2022) 111041.
  24. Munir B., D. Du, Dynamics of two unequal micron-sized viscous emulsion drops flowing in a two-dimensional constricted microcapillary channel: A numerical study, *Journal of Molecular Liquids* 390 (2023) 123158.
  25. Yu Y., C. Wang, J. Liu, S. Mao, Y. Mehmani, K. Xu, Bubble coarsening kinetics in porous media, *Geophysical Research Letter* 50 (2023) e2022GL100757.
- 106 T.D. Gurkov, S.C. Russev, K.D. Danov, I.B. Ivanov, B. Campbell, Monolayers of globular proteins on the air/water interface: applicability of the Volmer equation of state, *Langmuir* 19 (2003) 7362–7369. (брой: 30)**
1. Freer E.M., K.S. Yim, G.G. Fuller, C.J. Radke, Interfacial rheology of globular and flexible proteins at the hexadecane/water interface: comparison of shear and dilatation deformation, *J. Phys. Chem. B* 108(12) (2004) 3835–3844.
  2. McClements D.J., *Food emulsions: Principles, practices, and techniques* (2004) 1–609.
  3. Wierenga P.A., Basics of macroscopic properties of adsorbed protein layers formed at air–water interface based on molecular parameters, PhD Thesis, Wageningen University, The Holland, 2005.
  4. Kralchevsky P.A., N.D. Denkov, Ivan B. Ivanov: remarkable figure in colloid science, *Colloids Surfaces A* 282–283 (2006) 1–7.
  5. Coloidal particles at liquid interfaces, *PCCP* 9 (2007) 6298–6299.
  6. Hannisdal A., R. Orr, J. Sjöblom, Viscoelastic properties of crude oil components at oil–water interfaces. 2: Comparison of 30 oils, *J. Dispersion Science Technology* 28(3) (2007) 361–369.
  7. Robazzi W.S., Emprego de modelos de campo médio para descrição termodinâmica de monocamadas de Langmuir, PhD Thesis, Instituto de Física de São Carlos (IFSC), 2007.
  8. Tcholakova S., N. Denkov, A. Lips, Comparison of solid particles, globular proteins and surfactants as emulsifiers, *Physical Chemistry Chemical Physics* 10 (12) (2008) 1608–1627.
  9. Blijdenstein T.B.J., P.W.N. DeGroot, S.D. Stoyanov, On the link between foam coarsening and surface rheology: Why hydrophobins are so different, *Soft Matter* 6(8) (2010) 1799–1808.
  10. Jin Z., W. Feng, S. Zhu, H. Sheardown, J.L. Brash, Protein-resistant polyurethane by sequential grafting of poly(2-hydroxyethyl methacrylate) and poly(oligo(ethylene glycol) methacrylate) via surface-initiated ATRP, *Journal of Biomedical Material Research A* 95(4) (2010) 1223–1232.
  11. Olsen E., R. Guntupalli, I. Sorkulova, R. Long, W. Neely, V. Vodyanoy, Phage Langmuir–Blodgett films for biosensing application, *Proceedings of IEEE Sensors* (2010) 5690208, 401–406.
  12. Angarska Z.K., A.A. Elenskyi, G.P. Yampolskaya, K.D. Tachev, Foam films from mixed solutions of bovine serum albumin and n-dodecyl- $\beta$ -D-maltoside, *Colloid and Surfaces* 382(1–3) (2011) 102–112.
  13. Erni P., E.J. Windhab, P. Fisher, Emulsion drops with complex interfaces: Globular versus flexible proteins, *Macromolecular Materials and Engineering* 296(3–4) (2011) 249–262.
  14. Guntupalli R., I. Sorokulova, R. Long, E. Olsen, W. Neely, V. Vodyanoy, Phage Langmuir monolayers and Langmuir–Blodgett films, *Colloid and Surfaces B* 82(1) (2011) 182–189.
  15. Petkova R., S. Tcholakova, N.D. Denkov, Foamig and foam stability for mixed polymer-surfactant solutions: Effects of surfactant type and polymer charge, *Langmuir* 28(11) (2012) 4996–5009.
  16. Rudiuk S., L. Cohen-Tannoudji, S. Huille, C. Tribet, Importance of the dynamics of adsorption and of a transient interfacial stress on the formation of aggregates of IgG antibodies, *Soft Matter* 8(9) (2012) 2651–2661.
  17. Anton N., P. Pierrat, L. Lebeau, T.F. Vandamme, P. Bouriart, A study of insoluble monolayers by deposition at a bubble interface, *Soft Matter* 9(42) (2013) 10081–10091.
  18. Delahaije R.J.B.M., Wierenga P.A., van Nieuwenhuijzen, Giuseppin M.L.F., Gruppen H., Protein concentration and protein-exposed hydrophobicity as dominant parameters determining the flocculation of protein-stabilized oil-in-water emulsions, *Langmuir* 29(37) (2013) 11567–11574.
  19. Delahaije R.J.B.M., H. Gruppen, M.L.F. Giuseppin, P.A. Wierenga, Toward predicting the stability of protein-stabilized emulsions, *Advances Colloid Interface Science* 219 (2015) 1–9.
  20. Shieh I.C., A.R. Patel, Prediction of the agitation-induced aggregation of monoclonal antibodies using surface tensiometry, *Molecular Pharmaceutics* 12(9) (2015) 3184–3193.

21. Duffus L.J., J.E. Norton, P. Smith, I.T. Norton, F. Spyropoulos, A comparative study on the capacity of a range of food-grade particles to form stable O/W and W/O Pickering emulsions, *Journal of Colloid and Interface Science* 473 (2016) 9–21.
  22. Kirbi S.M., X. Zhang, P.S. Russo, S. Anna, L.M. Walker, Formation of a rigid hydrophobin film and disruption by an anionic surfactant at an air/water interface, *Langmuir* 32(22) (2016) 5542–5551.
  23. Marczak W., M. Rogalski, A. Moddaressi, E. Rogalska, A model of compression isotherms for analysing particle layers, *Colloids and Surfaces A* 489 (2016) 128–135.
  24. Muth M., R.P. Schmidt, K. Schnitzlein, Ellipsometric study of molecular orientation of *Thermomyces lanuginosus* lipase at the air-water interface by simultaneous determination of refractive index and thickness, *Colloids Surfaces B* 140 (2016) 60–66.
  25. Sarkar A., H. Singh, Emulsions and foams stabilized by milk proteins, *Advanced Dairy Chemistry* (2016) 133–153.
  26. Tien Y.S., Z. Zhang, N.J. Wagner, Competitive surface activity of monoclonal antibodies and nonionic surfactants at the air-water interface determined by interfacial rheology and neutron reflectometry, *Langmuir* 36 (2020) 7814–7823.
  27. Anton N., P. Pierrat, G.A. Brou, T.F. Vandamme, P. Bouriat, The pH-induced specific area Changes of unsaturated lipids deposited onto a bubble interface, *Langmuir* 37 (2021) 2586–2595.
  28. Al-Alwani A.J., V.N. Mironyuk, M.V. Pozharov, M.V. Gavrikov, E.G. Glukhovskoy, Formation and phase behavior of porphyrin/arachidic acid mixed systems and morphology study of Langmuir-Schaefer thin films, *Soft Materials* 20 (2022) 310–321.
  29. Lajnaf R., H. Attia, M.A. Ayadi, Pendant drop tensiometer: A valuable tool for the characterization of the foamig properties and the interfacial rheology of protein solutions, in: *Nutrition and Food Science*, MedPress (2022).
  30. Noskov B., G. Loglio, R. Miller, O. Milyaeva, M. Panaeva, A. Bykov, Dynamic surface properties of  $\alpha$ -lactalbumin fibril dispersions, *Polymers* 15 (2023) Ar. No. 3970.
- 105 K.D. Danov, S.D. Kralchevska, P.A. Kralchevsky, G. Broze, A. Mehreteab, Effect of nonionic admixtures on the adsorption of ionic surfactants at fluid interfaces. 2. Sodium dodecylbenzene sulfonate and dodecylbenzene, *Langmuir* 19 (2003) 5019–5030. (брой: 11)**
1. Wenseleers W., I.I. Vlasov, E. Goovaerts, E.D. Obraztsova, A.S. Lobach, A. Bouwen, Efficient isolation and solubilization of pristine single-walled nanotubes in bile salt micelles, *Adv. Funct. Mater.* 14(11) (2004) 1105–1112.
  2. Hristova E., Khr. Khristov, D. Exerowa, Foam film characterization of commercial surfactants and their mixtures, *Tenside, Surfactants, Detergents* 42(4) (2005) 217–225.
  3. Ivanov I.B., K.P. Ananthapadmanabhan, A. Lips, Adsorption and structure of the adsorbed layer of ionic surfactants, *Adv. Colloid Interface Sci.* 123–126 (2006) 189–212.
  4. Weiss E., Etude cinétique de la dégradation électrochimique de composés organiques sur l'anode de diamant dope au bore: Application à la dépollution d'effluents aqueux, PhD Thesis, Université Paul Sabatier–Toulouse III, 2006.
  5. Weiss E., K. Groenen–Serrano, A. Savall, Electrochemical mineralization of sodium dodecylbenzenesulfonate at boron doped diamond anodes, *J. Applied Electrochemistry* 37(11) (2007) 1337–1344.
  6. Chanda S., D. Das, J. Das, K. Ismail, Adsorption characteristics of sodium dodecylsulfate and cetylpyridinium chloride at air/water, air/formamide and air/water formamide interfaces, *Colloid Surfaces A* 399 (2012) 56–61.
  7. Basarova P., H. Suchanova, K. Souskova, T. Vachova, Bubble adhesion at hydrophobic surfaces in solutions of pure and technical grade surfactants, *Colloids Surfaces A* 522 (2017) 485–493.
  8. Mchedlov-Petrosyan N.O., The Davies equation of state of ionic surfactant adsorbed monolayer and related problems, *Colloids Surfaces A* 537 (2018) 325–333.
  9. Ab Rahman M.F., E.P. Neo, A.A. Rashid, Comparison of different types of dispersing agents on zeta potential and particle size analysis of sago starch dispersion as bio-filter for natural rubber latex films, *International Journal of Current Science, Engineering & Technology* 1(S1) (2018) 551–555.
  10. Vatanparas H., F. Shahabi, A. Bahramian, A. Javadi, R. Miller, The role of electrostatic repulsion on increasing surface activity of anionic surfactants in the presence of hydrophilic silica nanoparticles, *Scientific Reports* 8 (2018) 7251.
  11. Basarova P., J. Zawala, M. Zednikova, Interactions between a small bubble and a greater solid particle during the flotation process, *Mineral Processing and Extractive Metallurgy Review* 40 (2019) 410–426.
- 104 P.A. Kralchevsky, K.D. Danov, V.L. Kolev, G. Broze, A. Mehreteab, Effect of nonionic admixtures on the adsorption of ionic surfactants at fluid interfaces. 1. Sodium dodecyl sulfate and dodecanol, *Langmuir* 19 (2003) 5004–5018. (брой: 71)**



1. Liggiery L., F. Ravera, M. Ferrary, Surface rheology investigation of the 2-D phase transition in n-dodecanol monolayers at the water-air interface, *Langmuir* 19(24) (2003) 10233–10240.
2. Angarska J.T., K.D. Tachev, N.D. Denkov, Composition of mixed adsorption layers and micelles in solutions of sodium dodecyl sulfate and dodecyl acid diethanol amide, *Colloids Surface A* 233(1–3) (2004) 193–201.
3. Wenseleers W., I.I. Vlasov, E. Goovaerts, E.D. Obraztsova, A.S. Lobach, A. Bouwen, Efficient isolation and solubilization of pristine single-walled nanotubes in bile salt micelles, *Adv. Funct. Mater.* 14(11) (2004) 1105–1112.
4. Dominguez H., M. Rivera, Mixtures of sodium dodecyl sulfate/dodecanol at the air/water interface by computer simulations, *Langmuir* 21(16) (2005) 7257–7262.
5. Gurkov T.D., D. Todorova, K.G. Marinova, C. Bilke-Crause, C. Gerber, I.B. Ivanov, Ionic surfactants on fluid interfaces: determination of the adsorption; role of the salt and the type of the hydrophobic phase, *Colloids Surfaces A* 261(1–3) (2005) 29–38.
6. Dominguez H., Computer studies on the effects of long chain alcohols on sodium dodecyl sulfate (SDS) molecules in SDS/dodecanol and SDS/hexadecanol monolayers at the air/water interface, *J. Phys. Chem. B.* 110(26) (2006) 13151–13157.
7. Ivanov I.B., K.P. Ananthapadmanabhan, A. Lips, Adsorption and structure of the adsorbed layer of ionic surfactants, *Adv. Colloid Interface Sci.* 123–126 (2006) 189–212.
8. Jarek E., P. Wydro, A. Warszynski, M. Paluch, Surface properties of mixtures of surface-active sugar derivatives with ionic surfactants: theoretical and experimental investigations, *J. Colloid Interface Sci.* 293(1) (2006) 194–202.
9. Lopez-Diaz D., L. Garcia-Mateos, M.M. Velazquez, Surface properties of mixed monolayers of sulfobetaines and ionic surfactants, *J. Colloid Interface Sci.* 299(2) (2006) 858–866.
10. Para G., E. Jarek, P. Warszynski, The Hofmeister series effect in adsorption of cationic surfactants-theoretical description and experimental results, *Adv. Colloid Interface Sci.* 122(1–3) (2006) 39–55.
11. Yuan S., L. Ma, X. Zhang, I. Zheng, Molecular dynamics studies on monolayer of cetyltrimethylammonium bromide surfactant formed at the air/water interface, *Colloids Surfaces A* 289(1–3) (2006) 1–9.
12. Angarska J., C. Stubenrauch, E. Manev, Drainage of foam films stabilized with mixtures of non-ionic surfactants, *Colloids Surfaces A* 309(1–3) (2007) 189–197.
13. Case F.H., Predicting dynamic mesoscale structure of commercially relevant surfactant solutions, in: *Multiscale Simulation Methods for Nanomaterials*, 2007.
14. Day J.P.R., R.A. Campbell, O.P. Russell, C.D. Bain, Adsorption kinetics in binary surfactant mixtures studied with external reflection FTIR spectroscopy, *J. Phys. Chem. C* 111(25) (2007) 8757–8774.
15. Howes A.J., C.J. Radke, Monte Carlo simulations of Lennard-Jones nonionic surfactant adsorption at the liquid/vapor interface, *Langmuir* 23(4) (2007) 1835–1844.
16. Karakashev S.I., V.A. Nguyen, Effect of sodium dodecyl sulphate and dodecanol mixtures on foam film drainage: examining influence of surface rheology and intermolecular forces, *Colloids Surfaces A* 293(1–3) (2007) 229–240.
17. Mittica G., Individualizzazione e separazione di nanotubi di carbonio a parete singola, PhD Thesis, Università degli Studi di Messina, 2007.
18. Para G., P. Warszynski, Cationic surfactant adsorption in the presence of divalent ions, *Colloids Surfaces A* 300(3) (2007) 346–352.
19. Rusanov A.I., The essence of the new approach to the equation of the monolayer state, *Colloid Journal* 69(2) (2007) 131–143.
20. Wojciechowski K., Hydrogen bonding between fatty acids and azacrown ethers at fluid-fluid interfaces, in: *Progress in Surface Science Research*, 2007, ch. 5.
21. Case, F., In: *Multiscale Simulation Methods for Nanomaterials*, R.B. Ross and S. Mohanty, Eds., Wiley-Interscience, New York, 2008; p. 268.
22. Fernandez-Leyes M.D., P.C. Schulz, P.V. Messina, pH and surface tension dependence of mixed sodium deoxycholate-sodium dehydrocholate pre-micellar aggregation in aqueous solution, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 329(1–2) (2008) 24–30.
23. Burden D.K., A.M. Johnson, G.M. Nathanson, HCl Uptake through Films of Pentanoic Acid and Pentanoic Acid/Hexanol Mixtures at the Surface of Sulfuric Acid, *J. Phys. Chem. A* 113 (2009) 14131–14140.
24. Liu F., Q. Shen, Y. Su, S. Han, G. Xu, D. Wang, Transcriptive synthesis of Mg(OH)<sub>2</sub> hollow nanospheres and the non-equilibrium shell fusion assisted by catanionic vesicles, *Journal of Physical Chemistry B* 113(33) (2009) 11362–11366.

25. Tagashira H., Y. Takata, A. Hyono, H. Ohshima, Adsorption of surfactant ions and binding of their counterions at an air/water interface, *J. Oleo Sci.* 58(6) (2009) 285–293.
26. Wang H.H., Q. Shen, X.P. Li, F.L. Liu, Fabrication of Copper Oxide Dumbbell-Like Architectures via the Hydrophobic Interaction of Adsorbed Hydrocarbon Chains, *Langmuir* 25(5) (2009) 3152–3158.
27. Dominguez H., Structure of the SDS/1-dodecanol surfactant mixture on a graphite surface: A computer simulation study, *J. Colloid Interface Sci.* 345(2) (2010) 293–301.
28. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Adsorption layer characteristics of mixed oxyethylated surfactant solutions, *Jornal of Physical Chemistry B* 144(13) (2010) 4503–4508.
29. Fainerman V.B., E.V. Aksenenko, S.V. Lylyk, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of mixed sodium dodecyl sulfate/C nEOm solutions 1. Dynamic and equilibrium surface tension, *Langmuir* 26(1) (2010) 284–292.
30. Javadi A., N. Mucic, D. Vollhardt, V.B. Fainerman, R. Miller, Effects of dodecanol on the adsorption kinetics of SDS at the water–hexane interface, *J. Colloid Interface Science* 351(2) (2010) 537–541.
31. Ангарска Ж., Д. Иванова, К. Щубенрах, Гибсова еластичност и адсорбционни слоеве от смесени разтвори на n-додецил- $\beta$ -D-малтозид с додеканол, Годишник на Шуменския Университет, 2010.
32. Ivanova D.S., Z. Angarska, S.I. Karakashev, E.D. Manev, Drainage of foam films stabilized by n-dodecyl- $\beta$ -d-maltoside or dodecyl trimethylammonium bromide and their mixtures, *Colloid and Surfaces A* 382(1–3) (2011) 93–101.
33. Chanda S., D. Das, J. Das, K. Ismail, Adsorption characteristics of sodium dodecylsulfate and cetylpyridinium chloride at air/water, air/formamide and air/water formamide interfaces, *Colloid Surfaces A* 399 (2012) 56–61.
34. Chang C.-C., Adsorption kinetics of dioctyl sodium sulfosuccinate in aqueous NaCl solution, MSc. Thesis, National Taiwan University of Science and Technology, 2012.
35. Le N.T., Influence of the molecular structure on the adsorption of surfactants at water/air interface, PhD Thesis, Curtin University, 2012.
36. Liao Y.-C., Adsorption kinetics of sodium dodecylsulfate aqueous solution with NaCl, MSc. Thesis, National Taiwan University of Science and Technology, 2012.
37. Kuo C.-C., A theoretical study of ionic surfactant adsorption kinetics, National Taiwan University of Science and Technology, 2013.
38. Xu H., P.X. Li, K. Ma, R.K. Thomas, J. Penfold, J.R. Lu, Limitations in the application of Gibbs equation to anionic surfactants at the air/water interface: sodium dodecylsulfate and sodium dodecylmonooxyethylenesulfate above and below the CMC, *Langmuir* 29(30) (2013) 9335–9351.
39. Aranda-Bravo C.G., J.G. Mendez-Bermudez, H. Domínguez, Desorption of decane molecules from a graphite surface produced by sodium alpha olefin sulfate/betaine mixtures: a computer simulation study, *Journal of Molecular Liquids* 200 B (2014) 465–473.
40. Lin C.-H., A study on the adsorption kinetics of ionic surfactants and evaporation behavior of sessile drop, MS Thesis, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2014.
41. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междупазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
42. Dey J., N. Sultana, S. Kumar, V.K. Aswal, S. Shoudhury, K. Ismail, Controlling the aggregation of sodium dodecylsulphate poly(ethylene glycol) solutions, *RSC Advances* 5(91) (2015) 74744–74752.
43. Lin Y.-C., A study of the adsorption kinetics of decanoic acid and dodecylamine, MS Thesis, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2015.
44. Nguyen K.-L., Agrégation de tensioactifs anioniques à une interface solide-aqueux induite par l'oxydation d'une monocouche auto-assemblée de ferrocenylalkanethiolates, PhD Thesis, Montreal University, 2015.
45. Nguyen K.-L., E.R. Dionne, A. Badia, Redox-controlling ion-pairing association of anionic surfactant to ferrocene-terminated self-assembled monolayers, *Langmuir* 31(23) (2015) 6393–6394.
46. Shaloski M.A., T.B. Sobyra, G.M. Nathanson, DCI transport through dodecyl sulfate films on salty glycerol: Effects of seawater ions on gas entry, *Journal of Physical Chemistry A* 119(50) (2015) 12357–12366.
47. Kharchenko A.Y., N.N. Kamneva, N.O. Mchedlov-Petrosyan, The properties and composition of the SDS-1-butanol mixed micelles as determined via acid-base indicators, *Colloids and Surfaces A* 507 (2016) 243–254.
48. Kharchenko A.Yu., Composition of the sodium dodecylsulfate-1-pentanol mixed micelles as determined using acid-base indicators, *Kharkov University Bulletin, Chemical Series* 27(50) (2016) 5–15.
49. Qu G., C. Xue, Y. Han, S. Liang, J. Cheng, W. Ding, Molecular dynamics study of n-dodecyl-n,n-dimethyl-3-ammonio-1-propanesulfonate mono-layer adsorbed at the air/water Interface, *Journal of Dispersion Science and Technology* 37(8) (2016) 1067–1075.

50. Summerton E., G. Zimbitas, M. Britton, S. Bakalis, Crystallization of sodium dodecyl sulfate and the corresponding effect of 1-dodecanol addition, *Journal of Crystal Growth* 455 (2016) 111–116.
  51. Zeng Y.-H., Advancing/receding contact angles measurement and the adsorption kinetics of ionic surfactants, MSc Thesis, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2016.
  52. Basarova P., H. Suchanova, K. Souskova, T. Vachova, Bubble adhesion at hydrophobic surfaces in solutions of pure and technical grade surfactants, *Colloids Surfaces A* 522 (2017) 485–493.
  53. Martinez-Balbuena L., A. Artega-Jimenez, E. Hernandez-Zapata, C. Marquez-Beltran, Application of Gibbs adsorption isotherm to the analysis of experimental surface-tension data for ionic and nonionic surfactants, *Advances in Colloid and Interface Science* 247 (2017) 178–184.
  54. Slavchov R., I.B. Ivanov, Adsorption parameters and phase behavior of non-ionic surfactants at liquid interfaces, *Soft Matter* 13(46) (2017) 8829–8848.
  55. Sultana N., Role of ammonium ion on the aggregation and adsorption properties of sodium dodecylsulfate, *Journal of Dispersion Science and Technology* 39(1) (2018) 92–99.
  56. Basarova P., J. Zawala, M. Zednikova, Interactions between a small bubble and a greater solid particle during the flotation process, *Mineral Processing and Extractive Metallurgy Review* 40 (2019) 410–426.
  57. Lewandowski A., K. Szymczyk, Adsorption of monoterpene alcohols at the water-air interface, *Adsorption* 25 (2019) 301–308.
  58. Li W., N.R. Gupta, Bouyancy-driven motion of bubbles in the presence of soluble surfactants in a Newtonian fluid, *Industrial and Engineering Chemistry Research* 58 (2019) 7640–7649.
  59. Petrovic L., *Primena Sistema hitozan-jonska povrinski aktivna materija za dobijanje uljnog sadrzaja*, PhD Thesis, Novi Sad University, 2019.
  60. Peng M., A.V. Nguyen, Adsorption of ionic surfactants at the air/water interface: The gap between theory and experiment, *Advances in Colloid and Interface Science* 275 (2020) 102052.
  61. Petkova B., S. Tcholakova, M. Chenkova, K. Golemanov, D. Throley, S. Stoyanov, Foamability of aqueous solutions: Role of surfactant type and concentration, *Advances in Colloid and Interface Science* 276 (2020) 102084.
  62. Salazar-Arriaga A.B., H. Domiguez, Decane structure on a graphite surface with sodium dodecyl sulfate and betaine surfactant mixtures: A molecular dynamics study, *Chemical Physics* 539 (2020) 110945.
  63. Bussonniere A., I. Cantat, Local origin of visco-elasticity of a millimetric elementary foam, *Journal of Fluid Dynamics* 922 (2021) A25.
  64. Katev V., Z. Vinarov, S. Tcholakova, Mechanism of drug solubilization by polar lipids in biorelevant media, *European Journal of Pharmaceutical Sciences* 159 (2021) 105733.
  65. Correia E.L., N. Brown, A. Ervin, D.V. Papavassiliou, S. Razavi, Contamination in sodium dodecyl sulfate solutions: Insights from the measurements of surface tension and surface rheology, *Langmuir* 38 (2022) 7179–7189.
  66. Geppert J., P. Rose, S. Szioska, D. Escalera-Lopez, A. Boubnov, E. Saraci, S. Cherevko, J.-D. Grunwaldt, U. Krewer, Microkinetic analysis of the oxygen evolution performance at different stages of iridium oxide degradation, *Journal of the American Chemical Society* 144 (2022) 13205–13217.
  67. Penfold J., R.K. Thomas, Neutron reflection and the thermodynamics of the air-water interface, *Physical Chemistry Chemical Physics* 24 (2022) 8553–8577.
  68. Tsarkova L.A., T. Gurkov, Volatile surfactants: Characterization and areas of application, *Current Opinion in Colloid and Interface Science* 60 (2022) 101592.
  69. Warszynski P., L. Szyk-Warszynska, K.A. Wilk, Lamch, Adsorption of cationic multicharged surfactants at liquid-gas interface, *Current Opinion in Colloid and Interface Science* 59 (2022) 101577.
  70. Falciani G., E. Chiavazzo, An overview on modelling approaches for photochemical and photoelectrochemical solar fuels processes and technologies, *Energy Conversion and Management* 292 (2023) 117366.
  71. Dos Santos V.M., F. Uliana, R.P.W. Lima, E.A.S. Filho, Thermodynamics of the polymerisation of polyglycerols in an acidic and micellar environment, *Polimeros* 34(1) (2024).
- 103 V.L. Kolev, I.I. Kochijashky, K.D. Danov, P.A. Kralchevsky, G. Broze, A. Mehreteab, Spontaneous detachment of oil drops from solid substrates: governing factors, *J. Colloid Interface Sci.* 257 (2003) 357–363. (брой: 82)**
1. von Bahr M., F. Tiberg, B. Zhmud, Oscillations of sessile drops of surfactants solutions on solid substrate with differing hydrophobicity, *Langmuir* 19(24) (2003) 10109–10115.
  2. Chengara A., A.D. Nikolov, D.T. Wasan, A. Trokhymchuk, D. Henderson, Spreading of nanofluids driven by the structural disjoining pressure gradient, *J. Colloid Interface Sci.* 280(1) (2004) 192–201.
  3. Gokhale S.J., S. Dasgupta, J.L. Plawsky, P.C. Wayner Jr., Reflectivity-based evaluation of the coalescence of two condensing drops and shape evolution of the coalesced drop, *Phys. Rev. E* 70(5) (2004) 051610.

4. Pumphrey K.M., C.V. Chrysikopoulos, Non-aqueous phase liquid drop formation within a water saturated fracture, *Colloids Surfaces A* 240(1–3) (2004) 199–209.
5. Vaz D.A., *Formulaciones Detergentes Biodegradables: Ensayos de Lavado*, PhD Thesis, Granada University, 2004.
6. Duo W., C. Jianqiu, W. Dong, L. Bin, The preparation of the new type environmentally friendly water soluble metal washing agents, *Lubrication Engineering* 6, 2005.
7. Hongmei M.A., Z.H.U. Zhiliang, Research progress and application of surfactants in chemical cleaning, *Cleaning World* 21(4) (2005) 22–27.
8. Xiaofeng L., G. Boqin, T. Shandong, H. Chuanqing, Safety assessment method of flanged joints at elevated temperature, *Lubrication Engineering* 6, 2005.
9. Iliev S., N. Pesheva, On the quasi-static relaxation of a drop in a combined model of dissipation, *Langmuir* 22(4) (2006) 1580–1585.
10. Valentim I.B., I. Joekes, Adsorption of sodium dodecylsulfate on chrysotile, *Colloids Surfaces A* 290(1–3) (2006) 106–111.
11. Progress in the research of wettability reversal mechanism, *Journal of Xi'an Shiyou University* 22(6) (2007) 78–84.
12. Chengara A.V., A.D. Nikolov, D.T. Wasan, In: *Interfacial Processes and Molecular Aggregation of Surfactants*, R. Narayanan, Ed.; Springer, Berlin, 2008; pp. 117–142.
13. Jyao Q., T. Yang, H. Song, Strengthening environment – protecting cleaning and accomplishing energy conservation and discharge reduction, *Cleaning World* 11, 2008.
14. Zhang J., Q.P. Nguyen, A.K. Flaaten, G.A. Pope, Mechanisms of enhanced natural imbibition with novel chemicals, *SPE – DOE Improved Oil Recovery Symposium Proceedings* 2 (2008) 865–876.
15. Causse J., S. Faure, Acidic surfactant solutions for tributylphosphate removal in nuclear fuel reprocessing plants: A formulation study, *Chemical Engineering Journal* 147(2–3) (2009) 180–187.
16. Fetzer R., M. Ramiasa, J. Ralston, Dynamics of liquid-liquid displacement, *Langmuir* 25(14) (2009) 8069–8074.
17. Guo B., X. Yu, M. Khoshgahdam, A simple analytical model for predicting productivity of multifractured horizontal well, *SPE Reservoir Evaluation and Engineering* 12(6) (2009) Art. No. 114452-PA.
18. Houmard M., *Revetemens sol-gel TiO<sub>2</sub>-SiO<sub>2</sub> naturellement super-hydrophiles visant a developper des surfaces a nettoyabilite accrue*, Ph.D Thesis, 2009, Institut Polytechnique de Grenoble.
19. Jiang P., G.C. Zhang, J.J. Ge, H.T. Liu, T. Ma, Q. Zhang, The method of measurement for oil film shrink velocity, *Shiyou Huagong Gaodeng Xuexiao Xuebao/Journal of Petrochemical Universities* 22(1) (2009) 61–64.
20. Zhang J., Q.P. Nguyen, A.K. Flaaten, G.A. Pope, Mechanisms of enhanced natural imbibition with novel chemicals, *SPE Reservoir Evaluation and Engineering* 12(6) (2009) 912–920.
21. Илиев, Станимир Димитров, Статика и динамика при малки капиларни числа на течности, частично омокрящи твърдо тяло: вариационен подход, Дисертация за научната степен “доктор на науките”, Ин-т по Механика, БАН, София, 2009 г.
22. Ren W.Q., D. Hu, E. Weinan, Continuum models for the contact line problem, *Physics of Fluids* 22(10) (2010) Art. 102103.
23. Taylor S.E., Design and technical evaluation of a conceptual process for transferring solvent precipitated asphaltenes into water utilising surfactant phase behaviour, *Chemical Engineering Research and Design* 88(1) (2010) 61–72.
24. Wang L., J. Liang, W. Xu, D. Han, Effect of nanometer far-infrared materials on the cleanability of ceramic glazes, 6th East Asian Symposium on Functional Ion Application Technology and 2010 International Forum on Ecological Environment Functional Materials and Industry; Shanghai; 24 September 2010 through 25 September 2010; Code 83509.
25. Kondiparty K., A. Nikolov, D. Wasan, Wetting and spreading of nanofluids on solid surfaces driven by the structural disjoining pressure: Statics analysis and experiments, *Langmuir* 27(7) (2011) 3324–3335.
26. Ramiasa M., J. Ralston, R. Fetzer, R. Sedev, Contact line friction in liquid-liquid displacement on hydrophobic surfaces, *Journal of Physical Chemistry C* 115(50) (2011) 24975–24986.
27. Wang L., J. Liang, W. Xu, D. Han, Effect of nanometer far-infrared materials on the cleanability of ceramic glazes, *Advanced Materials Research* 178 (2011) 103–108.
28. Wasan D., A. Nikolov, K. Kondiparty, The wetting and spreading of nanofluids on solids: Role of the structural disjoining pressure, *Current Opinion in Colloid and Interface Science* 16(4) (2011) 344–349.
29. Kang I.-S., Detergency of particulate soil of PET fabric finished with hydrophilic and hydrophobic chemicals, *Journal of the Korean Society of Clothing and Textiles* 36(11) (2012) 1237–1245.
30. Liu K.-L., K. Kondiparty, A.D. Nikolov, D. Wasan, Dynamic spreading of nanofluids on solids: II. Modeling, *Langmuir* 28(47) (2012) 16274–16284.



31. Liu Q., S. Yuan, H. Yan, X. Zhao, Mechanics of oil detachment from a silica surface in aqueous surfactant solutions: Molecular dynamics simulations, *Journal of Physical Chemistry B* 116(9) (2012) 2867–2875.
32. Zhu D.Y., X.M. Liao, P.Q. Dai, Theoretical analysis of reactive solid-liquid interface energies, *Chinese Science Bulletin* 57(34) (2012) 4517–4524.
33. Chini S.F., V. Bertola, A. Amirfazli, A methodology to determine the adhesion force of arbitrarily shaped drops with convex contact lines, *Colloid Surfaces A* 436 (2013) 425–433.
34. Mahani H., S. Berg, D. Ilic, W.-B. Bartels, V. Joekear-Niasar, Kinetics of the low salinity waterflooding effect studied in a model system, *EORC* 2013, 457–470.
35. Radiom M., C. Yang, W.K. Chan, Dynamic contact angle of water-based titanium oxide nanofluid, *Nanoscale Research Letters* 8(1) (2013) 1–9.
36. Wang F.-C., H.-A. Wu, Enhanced oil droplet detachment from solid surfaces in charged nanoparticle suspensions, *Soft Matter* 9(33) (2013) 7974–7980.
37. Wu S., A. Nikolov, D. Wasan, Cleansing dynamics of oily soil using nanofluids, *J. Colloid Interface Sci.* 396 (2013) 293–306.
38. Yesudhasan P., M. Al-Busaidi, W.A.K. Al-Rahbi, A.S. Al-Waili, A.K. Al-Nakhaili, N.A. Al-Mazrooei, S.H. Al-Habsi, Distribution patterns of toxic metals in the marine oyster *Saccostrea cucullata* from the Arabian Sea in Oman: spatial, temporal, and size variations, *Springer Plus* 2(1) (2013) 1–11.
39. Zhong J., X. Wang, J. Du, Wang L., Y. Yan, Zhang J., Combined molecular dynamics and quantum mechanics study of oil droplet adsorption on different self-assembly monolayers in aqueous solution, *Journal of Physical Chemistry C* 117(24) (2013) 12510–12519.
40. Andruk T., D. Monaenkova, B. Rubin, W.-K. Lee, K.G. Kornev, Meniscus formation in a capillary and the role of contact line friction, *Soft Matter* 10(4) (2014) 609–615.
41. Lin F., L. He, B. Primkulov, Z. Xe, Dewetting dynamics of solid microsphere by emulsion drop, *The Journal of Physical Chemistry C* 118(25) (2014) 13552–13562.
42. Mercade-Prieto R., S. Bakalis, Methodological study on the removal of solid oil and fat strains from cotton fabrics using abrasion, *Textile Research Journal* 84(1) (2014) 52–65.
43. Ramiasa M., J. Ralston, R. Fetzer, R. Sedev, The influence of topography on dynamic wetting, *Advances in Colloid Interface Science* 206 (2014) 275–293.
44. Wasan D., A. Nikolov, G. Sedhumadhavan, Role of structural forces in cleaning soiled surfaces, in: *Oil Spill Remediation: Chemistry-Based Principles and Solutions*, 2014, Ch. 16.
45. Yue P., F. Zhang, H.L. Fan, Study of oil displacement performance of hydroxyl sulfobetaine surfactant, *Advanced Materials Research* 853 (2014) 223–228.
46. Zhang P. Z. Xu, Q. Liu, S. Yuan, Mechanism of oil detachment from hybrid hydrophobic and hydrophilic surface in aqueous solution, *Journal of Chemical Physics* 140(16) (2014) 164702.
47. Lamorgese A., R. Mauri, On the buoyancy-driven detachment of a wall-bound pendant drop: Results of phase-field simulations, *Chemical Engineering Transactions* 43 (2015) 1849–1854.
48. Mahani H., S. Berg, D. Ilic, W.-B. Bartels, V. Joekear-Niasar, Kinetics of low-salinity-flooding effect, *SPE Journal* 20(1) (2015) 8–20.
49. Wang S., Z. Li, B. Liu, X. Zhang, Q. Yang, Molecular mechanism of surfactant-aided oil removal from a solid surface, *Applied Surface Science* 359 (2015) 98–105.
50. Basarova P., T. Vachova, L. Bartovska, A typical wetting behavior of alcohol-water mixtures on hydrophobic surfaces, *Colloids and Surfaces A* 489 (2016) 200–206.
51. Bai Q., Y. Gou, J. Chen, L. Lu, Q. Zhang, F. Zhang, H. Zhao, X. Yuan, Y. Liang, Research and development of ultra-clean manufacturing, *Journal of Mechanical Engineering* 52(19) (2016) 145–153.
52. Hou B., Y. Wang, X. Cao, J. Zhang, X. Song, M. Ding, W. Chen, Mechanisms of enhanced oil recovery by surfactant-induced wettability alteration, *Journal of Dispersion Science and Technology* 37(9) (2016) 1259–1267.
53. Lamorgese A., R. Mauri, Critical conditions for the buoyancy-driven detachment of a wall-bound pendant drop, *Physics of Fluids* 28(3) (2016) 032103.
54. Xie W., Y. Sun, H. Liu, H. Fu, Y. Liang, Conformational change of oil contaminants adhered onto crystalline alpha-alumina surface in aqueous solution, *Applied Surface Science* 360 (2016) 184–191.
55. Yuan S., S. Wang, X. Wang, M. Guo, Y. Wang, D. Wang, Molecular dynamics simulation of oil detachment from calcite surface in aqueous surfactant solution, *Computational and Theoretical Chemistry* 1092 (2016) 82–89.
56. Li Y., Q. Yang, R.A. Mei, M. Cai, J.Y.Y. Heng, Z. Yang, Controlling the accumulation of water at oil-solid interfaces with gradient coating, *Journal of Physical Chemistry B* 121(27) (2017) 6766–6772.
57. Xie W., H. Liu, Y. Liang, Conformation evolution of oil contaminants onto aluminum oxide surface in aqueous solution: The effect of surface coverage, *Applied Surface Science* 392 (2017) 747–759.

58. Zhao L. Z. Wang, X. Wu, J. Yang, L. Feng, Synthesis and performance evaluation of surfactant system with thermal stability and salt resistance of decreasing injection pressure, *Speciality Petrochemicals* 34 (2017) 1–5.
59. Duan M., Z. Ding, H. Wang, Y. Xiong, S. Fang, P. Shi, S. Liu, Evolution of oil/water interface in the presence of SDBS detected by dual polarization interferometry, *Applied Surface Science* 427 (2018) 917–926.
60. Frank F., C. Liu, A. Scanziani, F.O. Alpak, B. Riviere, An energy-based equilibrium contact angle boundary condition on jagged surfaces for phase-field methods, *Journal of Colloid and Interface Science* 523 (2018) 282–291.
61. Tang J., Z. Qu, J. Luo, L. He, P. Wang, P. Zhang, X. Tang, Y. Pei, B. Ding, B. Peng, Y. Huang, Molecular dynamics simulations of the oil-detachment from the hydroxylated silica surface: Effects of surfactants, electrostatic interactions, and water flows on the water molecular channel formation, *Journal of Physical Chemistry B* 122(6) (2018) 1905–1918.
62. Xiang B., Q. Liu, J. Long, Probing bitumen liberation by a quartz crystal microbalance with dissipation, *Energy and Fuels* 32 (2018) 7451–7457.
63. Kim M.-S., T.-J. Ko, Y.-A. Lee, K. H. Oh, M.-W. Moon, Multiple air-bubble enhanced oil rupture on nanostructured cellulose fabric for easy-oil cleaning fouled in a dry state, *Scientific Reports* 9 (2019) 14538.
64. Zheng W., C. Sun, B. Wen, B. Bai, Moving mechanism of the three-phase contact line in a water-deccane-silica system, *RSC Advances* 9 (2019) 3092–3101.
65. Da Silva G.C.O., R. Giro, B.A.C. Horta, R.F. Neumann, M. Engel, M.B. Steiner, Effect of additives on oil displacement in nanocapillaries: A mesoscale simulation, *Journal of Molecular Liquids* 312 (2020) 112953.
66. Li R., R. Manica, Y. Lu, Z. Xu, Role of surfactants in spontaneous displacement of high viscosity oil droplets from solid surfaces in aqueous solutions, *Journal of Colloid and Interface Science* 579 (2020) 898–908.
67. Lin F., Efficient recovery of extra-heavy oil using a naturally abundant green solvent: Toward a more sustainable oil-solid-water separation, *Sustainable Materials and Technologies* 25 (2020) e00185.
68. Xia D., K. He, Z.-Y. Zhang, F.-S. Zhang, Effect of steam jet on oil reclamation and purification from layered oily sludge, *Fuel* 263 (2020) 116731.
69. Xiang B., Fundamental understanding of sodium citrate in bitumen liberation, PhD Thesis, University of Alberta, 2020.
70. Yakshaveh J.S., A. Jafari, Z. Tohidi, R.P. Salehi, Nano-scale simulation of oil-water-nanosilica-rock system: Wettability and rheological properties alteration using charged nanoparticles, *Journal of Petroleum Science and Engineering* 195 (2020) 197724.
71. Li L., J. Chen, X. Jin, Z. Wang, Y. Wu, C. Dai, Novel polyhydroxy anionic surfactants with excellent water-solid interfacial wettability control capability for enhanced oil recovery, *Journal of Molecular Liquids* (2021) 116973.
72. Li R., Y. Lu, R. Manica, Spreading and receding of oil droplets on silanized glass surfaces in water: Role of three-phase contact line flow direction in spontaneous displacement, *Journal of Colloid and Interface Science* 587 (2021) 672–682.
73. Maiki E.P., R. Sun, H. Cao, Y. Huang, S. Ren, Experimental and theoretical investigation of low salinity water injection timing in high water cut sandstone reservoirs for enhanced oil recovery, *Journal of Chemistry Letters* 2 (2021) 73–81.
74. Chueh C.-C., R. Mauri, A. Bertei, The detachment of a wall-bound pendant drop suspended in a sheared fluid and subjected to an external force field, *Physics of Fluids* 34 (2022) 073306.
75. Iravani R., C. An, M. Mohammadi, K. Lee, K. Zhang, Experimental and modeling studies of the effects of nanoclay on the oil behaviors in a water–sand system, *Environmental Science and Pollution Research* 29 (2022) 50540–50551.
76. Li L., J. Chen, J. Liu, Z. Xu, Y. Wu, M. Zhao, G. Zhao, C. Dai, Anionic surfactant based on oil-solid interfacial interaction control for efficient residual oil development, *Colloid Surfaces A* 648 (2022) 129396.
77. Tsompou A., V. Kocherbitov, The effects of water purity on removal of hydrophobic substances from solid surfaces without surfactants, *Journal of Colloid and Interface Science* 608 (2022) 1929–1941.
78. Shang X., Z. Luo, G. Hu, B. Bai, Role of surfactant-induced Marangoni effects in droplet dynamics on a solid surface in shear flow, *Colloids and Surfaces A* 654 (2022) 130142.
79. Tsompou A., V. Kocherbitov, Surface and bulk mechanisms repeating treatment of solid surfaces by purified water, *Heliyon* 9 (2023) e17163.
80. Chen J., X. Jin, L. Li, C. Dai, G. Zhao, Construction and performance evaluation of novel compound oil displacement system for enhanced oil recovery, *Journal of Molecular Liquids* 387 (2023) 122618.

81. Maiki E.P., R. Sun, S. Ren, A.M. AlRassas, H. Cao, Enhancing Oil Extraction in Sandstone Reservoir with High Water Cut: Exploring the Impact of Low Salinity Sodium Chloride and Molecular Dynamics Consequences, Springer Series in Geomechanics and Geoengineering (2024) 1639–1657.
  82. Li Q., D. Sun, F. Chen, H. Xu, Z. Xu, New insights into interaction between oil and solid during hydrothermal treatment of oily sludge, Journal of Hazardous Materials 471 (2024) 134358.
- 101 P.A. Kralchevsky, K.D. Danov, N.D. Denkov, Chemical physics of colloid systems and interfaces, in: K.S. Birdi (Ed.), Handbook of Surface and Colloid Chemistry, Second Edition, CRC Press, New York, 2002, pp. 137–344. (брой: 62)**
1. Taylor C.D., D.S. Valkovska, C.D. Bain, A simple and rapid method for the determination of the surface equations of state and adsorption isotherms for efficient surfactants, Phys. Chem. Chem. Phys. 5(21) (2003) 4885–4891.
  2. Cao G., Nanostructures and Nanomaterials: Synthesis, Properties and Applications, Imperial College Press, London, 2004, p. 327.
  3. Kirby B.J., E.F. Hasselbrink Jr., The zeta potential of microfluidic substrates. 2. Data for polymers, Electrophoresis 25 (2004) 203–213.
  4. Kirby B.J., E.G. Hasselbrink Jr., Zeta potential of microfluidic substrates: 1. Theory, experimental techniques, and effects on separations, Electrophoresis 25 (2004) 187–202.
  5. Sekine M., R.A. Campbell, D.S. Valkovska, J.P.R. Day, T.D. Curwen, L.J. Martin, S.A. Holt, J. Eastoe, C.D. Bain, Adsorption kinetics of ammonium perfluorononanoate at the air–water interface, Phys. Chem. Chem. Phys. 6(21) (2004) 5061–5065.
  6. Valkovska D.S., G.C. Shearman, D. Colin, C.D. Bain, C. Richard, R.C. Darton, J. Eastoe, Adsorption of ionic surfactants at an expanding air–water interface, Langmuir 20(11) (2004) 4436–4445.
  7. Evdokimov I.N., N.Yu. Eliseev, V.A. Iktisanov, Excess density in oilfield water–crude oil dispersions, J. Colloid Interface Sci. 285(2) (2005) 795–803.
  8. Glomm W.R., Functionalized gold nanoparticles for applications in bionanotechnology, J. Dispersion Science and Technology 26(3) (2005) 389–414.
  9. Horozov T.S., B.P. Binks, Particle behaviour at horizontal and vertical fluid interfaces, Colloids Surfaces A 267(1–3) (2005) 64–73.
  10. Horozov T.S., R. Aveyard, B.P. Binks, J.H. Clint, Structure and stability of silica particle monolayers at horizontal and vertical octane–water interfaces, Langmuir 21(16) (2005) 7405–7412.
  11. Schramm L.L. (Ed.), Emulsions, Foams, and Suspensions: Fundamentals and Applications, InterScience, Wiley, 2005, p. 410.
  12. Basheva E.S., T.D. Gurkov, N.C. Christov, B. Campbell, Interactions in oil/water/oil films stabilized by  $\beta$ -lactoglobulin; role of the surface charge, Colloids Surfaces A 282–283 (2006) 99–108.
  13. Croy S.R., G.S. Kwon, Polymeric micelles for drug delivery, Current Pharmaceutical Design 12(36) (2006) 4669–4684.
  14. Fingas M., L. Ka’aihue, Oil spill dispersion stability and oil re–surfacing, Environment Canada Arctic and Marine Oil Spill Program Technical Seminar (AMOP) Proceedings 2 (2006) 729–819.
  15. Magueijo V., V. Semiao, M.N. de Pinto, Integrated modelling of lysozyme ultrafiltration, Journal Membrane Sci. 286(1–2) (2006) 133–143.
  16. Matsubara H., M. Aratono, K.M. Wilkinson, C.D. Bain, Lattice model for the wetting transition of alkanes on aqueous surfactant solutions, Langmuir 22(3) (2006) 982–988.
  17. Rahman M.A., T. Heidrick, B. Fleck, Conference Information: 2nd US–European Fluids Engineering Division Summer Meeting, JUL 17–20, 2006 Miami, FL; Proceedings of the ASME Fluids Engineering Division Summer Conference, Vol. 1, Parts A and B, 2006; pp. 1125–1127.
  18. Sosnowski T., Efekty dynamiczne w układach ciecz–gaz z aktywną powierzchnią międzyfazową, Prace Widzialu Inżynieri Chemichnei 30(2) (2006) 3–141.
  19. Texter J., Electroacoustic characterization of electrokinetics in concentrated pigment dispersions: 3–Cyano–4–(4’–butanesulfonamidophenyl)–5–furylidene–furan–2–one, Colloids Surfaces A 282–283 (2006) 475–482.
  20. Kanouni M., H. Rosano, In: Multiple Emulsions: Technology and Applications, A. Aserin Ed., Wiley, New York, 2007; pp. 68 and 83.
  21. Raccurt O., J. Berthier, P. Clementz, M. Borella, M. Plissonnier, On the influence of surfactants in electrowetting systems, Journal of Micromechanics and Microengineering 17(11) (2007) 2217–2223.
  22. Bormashenko E., D. Aurbach, G. Whyman, T. Stein, Y. Bormashenko, R. Pogreb, On the role of the Plateau borders in the pattern formation occurring in thin evaporated polymer layers, Colloids and Surfaces A: Physicochemical and Engineering Aspects 312(2–3) (2008) 245–248.

23. Jutz G., Mineralized Bionanoparticle Pickering Emulsions, PhD Thesis, Bayreuth University, Germany, 2008.
24. Nan Wang, Preparation and morphological study of composite nano-particles made of homopolymers, M.Sc. Thesis, Queen's University, Kingston, Ontario, Canada, 2008.
25. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
26. Sherwood D.J., C.L. Crawford, T.L White, C.E. Duffey, T.B. Calloway, Impact of antifoam agent addition on hydrogen formation in the hanford waste treatment and immobilization plant, *Nuclear Science and Engineering* 158(1) (2008) 88–96.
27. Bormashenko E., R. Pogreb, G. Whyman, A. Musin, Surface tension of liquid marbles, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 351 (2009) 78–82.
28. Kwak H.S., H. Kim, J.M. Hyun, T.H. Song, Thermal control of electroosmotic flow in a microchannel through temperature-dependent properties, *J. Colloid Interface Sci.* 335(1) (2009) 123–129.
29. Tagashira H., Y. Takata, A. Hyono, H. Ohshima, Adsorption of surfactant ions and binding of their counterions at an air/water interface, *J. Oleo Sci.* 58(6) (2009) 285–293.
30. Dukhin A.S., S.S. Dukhin, Rapid Brownian and gravitational coagulation, *Colloids and Interface Science Series vol. 1* (2010) 345–378.
31. Foudazi R., I. Masalova, A. Y.A. Malkin, The role of interdroplet interaction in the physics of highly concentrated emulsions, *Colloid Journal* 72(1) (2010) 74–92.
32. Foudazi R., I. Masalova, A.Y. Malkin, Effect of interdroplet interaction on elasticity of highly concentrated emulsions, *Applied Rheology* 20(4) (2010) 209–218.
33. Liu, S.Q.; Tang, Z.Y., *J. Materials Chemistry* 20(1) (2010) 24–35.
34. Nikolov A., K. Kondiparty, D. Wasan, Nanoparticle self-structuring in a nanofluid film spreading on a solid surface, *Langmuir* 26(11) (2010) 7665–7670.
35. Paciejewska K.M., *Untersuchung des Stabilitätsverhaltens von binären kolloidalen Suspensionen*, PhD Thesis, Technical University, Dresden, 2010.
36. Bormashenko E., Liquid marbles: Properties and applications, *Current Opinion in Colloid and Interface Science* 16(4) (2011) 266–271.
37. Illy E., L. Navarini, Neglected Food Bubbles: The Espresso Coffee Foam, *Food Biophysics* 6(3) (2011) 335–348.
38. Kim K. N.S. Kwak, T.-H. Song, A numerical model for simulating electroosmotic micro-and nanochannel flows under non-Boltzmann equilibrium, *Fluid Dynamics Research* 43(4) (2011) 041401.
39. Masalova A., R. Foudazi, Y.A. Malkin, The rheology of highly concentrated emulsions stabilized with different surfactants, *Colloid Surfaces A: Physicochemical and Engineering Aspects* 375(1–3) (2011) 76–86.
40. Biswas S., O.S. Vaze, S. Movassaghian, V.P. Torchilin, Polymer micelles for the delivery of poorly soluble drugs, *Drug Delivery Strategies for Poorly Water-Soluble Drugs* (2013) 411–476.
41. May S., A. Fahr, Self-assembled delivery vehicles for poorly water-soluble drugs: basic theoretical considerations and modeling concepts, *Drug Delivery Strategies for Poorly Water-Soluble Drugs* (2013) 1–35.
42. Zhou L., L. Wei, X. Du, Y. Yang, P. Jiang, B. Wang, Effects of nanoparticle behaviors and interfacial characteristics on subcooled nucleate pool boiling over microwire, *Experimental Thermal and Fluid Science* 57 (2014) 310–316.
43. Bak A., W. Podgorska, Interfacial and surface tensions of toluene/water and air/water systems with nonionic surfactants Tween 20 and Tween 80, *Colloids and Surfaces A* 403 (2016) 414–425.
44. Capeletto C.A., C. Sayer, P.H.H. Araujo, Post-modification of preformed polymer latex, *Chemical Engineering and Processing* 103 (2016) 80–86.
45. Foudazi R., I. Masalova, A.Y. Malkin, Modeling of osmotic pressure and shear modulus of highly concentrated emulsions in the presence of inter-droplet interactions, *5<sup>th</sup> International Symposium of Food rheology and Structure* (2016) 150–153.
46. Multanen V., R. Pogreb, Y. Bormashenko, E. Shutzinger, F. Whyman, M. Frenkel, E. Bormashenko, Under-liquid self-assembly of submerged buoyant polymer particles, *Langmuir* 32(23) (2016) 5714–5720.
47. Macas R.D.O., FORMULACIÓN DE UN RECUBRIMIENTO COMESTIBLE ANTIFÚNGICO A BASE DE GELATINA, GLICEROL Y NATAMICINA ENCAPSULADA EN LIPOSOMAS DE FOSFATIDILCOLINA PARA SU APLICACIÓN EN FRESA (*Fragaria vesca*), PhD Thesis, Escuela Politécnica Nacional, Argentina, 2017.
48. Rusu V., Stratul dublu electric al montmoril onitului. II. Analize comparative ale modelelor, *Studia Universitatis Moldaviae* 101(1) (2017) 108–117.



49. Cacinovic N., Electrochemical synthesis of colloidal silver with sodium citrate, PhD Thesis, Split University, 2019.
50. Fingas M., Surface chemistry and oil-in-water emulsion stability, Proceedings – 42 AMOP Technical Seminar on Environmental Contamination and Response, 2019, 940–1023.
51. Alhodali M.A., Description of the preliminary proposals and modeling for applying the mechanical foam breakers techniques in the processing trays columns, Journal of Environmental Chemical Engineering 8 (2020) 104344.
52. Bormashenko E., A.A. Fedorets, M. Frenkel, L.A. Dombrovsky, M. Nosonovsky, Clustering and self-organization of in small-scale natural and artificial systems, Phil. Trans. Royal Soc. A 378 (2020) 2167.
53. Cinelli G., M. Cofelice, F. Venditti, Veiled extra virgin olive oils: Role of emulsion, water and antioxidants, Colloids and Interfaces 4 (2020) 0038.
54. Jajetic H., Sinteza i karakterizacija koloidnog srebra dobivenoelektrokemijskom metodom niskog naponaistosmjerne struje, PhD Thesis, University of Split, 2020.
55. Regis R.J., Application of micellar enhanced ultrafiltration for the removal of soluble organic compounds present in produced water, PhD Thesis, Federal niversity of Santa Catarina, 2020.
56. Chernysheva M.G., A.V. Shnitko, H.S. Skrabkova, G.A. Badun, Peculiarities of alkylamidopropyltrimethylbenzylammonium (Miramistin) in the relationship to lysozyme in comparison with quaternary ammonium surfactants: coadsorption at the interfaces, enzymatic activity and molecular docking, Colloids Surfaces A (2021) 127503.
57. Rekhviashvili S.S., V.V. Narozhnov, M.O. Mamchuev, D.S. Gaev, Study of the hardening kinetics of a mineral binder using electrical and optical methods, Industrial laboratory. Diagnostics of materials 87 (2021) 32–37.
58. Li H., S.C. Mahavadi, A. Anton, S.I. Andersen, Estimating reservoir fluid interfacial tension: An insight into the role of polar species of crude oil, Journal of Dispersion Science and Technology 43 (2022) 1825–1837.
59. Tian H., B. He, Y. Yin, L. Liu, J. Shi, L. Hu, G. Jiang, Chemical nature of metals and metal-based materials in inactivation of viruses, Nanomaterials 12 (2022) 2345.
60. Guo Z., Nonlinear coupling effects of the thermocapillarity and insoluble surfactants to droplet migration under Poiseuille flow, Physical Review Fluids 8 (2023) 024001.
61. Stagnoli S., C. Garro, O. Ertekin, S. Heid, S. Seyferth, G. Soria, N. Mariano Correa, A. Leal-Egana, A.R. Boccaccini, Topical systems for the controlled release of antineoplastic Drugs: Oxidized Alginate-Gelatin Hydrogel/Unilamellar vesicles, Journal of Colloid and Interface Science 629 (2023) 1066–1080.
62. Farshadfar H., H.S. Armandi, R. Gharibshahi, A. Jafari, Simultaneous electromagnetic radiation and nanofluid injection and their interactions in EOR operations: A comprehensive review, Journal of Magnetism and Magnetic Materials 580 (2023) 170863.

**100 V.L. Kolev, K.D. Danov, P.A. Kralchevsky, G. Broze, A. Mehreteab, Comparison of the van der Waals and Frumkin adsorption isotherms for sodium dodecyl sulfate at various salt concentrations, Langmuir 18 (2002) 9106–9109. (брой: 89)**

1. Horanyi G., Radiotracer Studies of Interfaces (The Interface Science and Technology Series), Academic Press, London, 2004, p. 160.
2. Horanyi G., Study of liquid/fluid interfaces, Interface Science and Technology, 3(C) (2004) 141–161.
3. Iwaura R., H. Minamikawa, T. Shimizu, Sodium chloride-induced self-assembly of microfibers from nanofiber components, J. Colloid Interface Sci. 277(2) (2004) 299–303.
4. Lopez J., R. Iturbe, L.G. Torres, Washing of soil contaminated with PAHs and heavy petroleum fractions using two anionic and one ionic surfactant: effect of salt addition, J. Environmental Science Health A 39(9) (2004) 2293–2306.
5. Schlarmann J., Zum Grenzflächenverhalten nichtionischer Tenside, Cuvillier Verlag Göttingen, 2004.
6. Hong Y., U.B. Patri, S. Ramakrishnan, D. Roy, S.V. Babu, Utility of dodecyl sulfate surfactants as dissolution inhibitors in chemical mechanical planarization of copper, J. Materials Research 20(12) (2005) 3413–3424.
7. Pradines V., D. Lavabre, J.–C. Micheau, V. Pimienta, Determining the association constant and adsorption properties of ion pairs in water by fitting surface tension data, Langmuir 21(24) (2005) 11167–11172.
8. Bivas I., Electrostatic and mechanical properties of a flat lipid bilayer containing ionic lipids. Possibility for formation of domains with different surface charges, Colloids Surfaces A 282–283 (2006) 423–434.
9. Ivanov I.B., K.P. Ananthapadmanabhan, A. Lips, Adsorption and structure of the adsorbed layer of ionic surfactants, Adv. Colloid Interface Sci. 123–126 (2006) 189–212.
10. Jarek E., P. Wydro, A. Warszynski, M. Paluch, Surface properties of mixtures of surface-active sugar derivatives with ionic surfactants: theoretical and experimental investigations, J. Colloid Interface Sci. 293(1) (2006) 194–202.

11. Keswani M.K., H. Lee, S. Babu, U. Patri, Y. Hong, L. Ekonomikos, M. Goldstein, L. Borucki, A. Philipossian, Y. Zhuang, Study of inhibition characteristics of slurry additives in copper CMP using force spectroscopy, *ECS Transactions* 2(2) (2006) 515–522.
12. Para G., E. Jarek, P. Warszynski, The Hofmeister series effect in adsorption of cationic surfactants—theoretical description and experimental results, *Adv. Colloid Interface Sci.* 122(1–3) (2006) 39–55.
13. Philipossian A., H. Lee, S.V. Babu, U. Patri, Y. Hong, L. Ekonomikos, M. Goldstein, Y. Zhuang, L. Borucki, Study of inhibition characteristics of slurry additives in copper CMP using force spectroscopy, *ECS Transactions* 2(2) (2006) 515–522.
14. Hong Y., V.K. Devarapalli, D. Roy, S.V. Babu, Synergistic roles of dodecyl sulfate and benzotriazole in enhancing the efficiency of CMP of copper, *J. Electrochemical Society* 154(6) (2007) 444–453.
15. Lee H., A. Phillipossian, S.V. Babu, U.B. Patri, Y.-K. Hong, L. Ekonomikos, M. Goldstein, Study of inhibition characteristics of slurry additives in copper CMP using force spectroscopy, *Transactions on Electrical and Electronic Materials* 8(1) (2007) 5–10.
16. Saiki Y., R.G. Horn, C.A. Prestidge, Rheological transition of concentrated emulsions during successive shearing cycles, *Journal of Colloid and Interface Science* 327(2) (2008) 440–445.
17. Song S.L., Z.G. Hu, Q.K. Wang, G. Cheng, X.H. Liu, Physicochemical properties and surface tension prediction of mixed surfactant systems: Triton X–100 with dodecylpyridinium bromide and Triton X–100 with sodium dodecylsulfonate, *Journal of Dispersion Science and Technology* 29(5) (2008) 763–768.
18. Davis C.A., Investigating the impact of microbial interactions with geological media on geophysical properties, PhD Thesis, Misuri University of Science and Technology, 2009.
19. James O.O., K.O. Ajanaku, O.K. Oguniran, O.O. Ajani, M.O. John, Adsorption behaviour of [(4-hydroxy-6-methyl-2-oxo-2Hpyran-3-yl)-(4-methyl-phenyl)-methyl-urea on stainless steel in phosphoric media, *Portugaliae Electrochimica Acta* 27(5) (2009) 591–598.
20. Tagashira H., Y. Takata, A. Hyono, H. Ohshima, Adsorption of surfactant ions and binding of their counterions at an air/water interface, *J. Oleo Sci.* 58(6) (2009) 285–293.
21. Varela L.M., J. Carrete, M. Turmine, E. Rilo, O. Cabeza, Pseudolattice theory of the surface tension of ionic liquid – water mixtures, *Journal of Physical Chemistry B* 113(37) (2009) 12500–12505.
22. Pradines V., V.B. Fainerman, E.V. Aksenenko, J. Kragel, N. Mucic, R. Miller, Adsorption of alkyl trimethylammonium bromides at the water/air and water/hexane interfaces, *Colloid and Surfaces A* 371(1–3) (2010) 22–28.
23. Takata Y., H. Tagashira, A. Hyono, H. Ohshima, Effect of counterion and configurational entropy on the surface tension of aqueous solutions of ionic surfactant and electrolyte mixtures, *Entropy* 12(4) (2010) 983–995.
24. Stanimirova R., K. Marinova, S. Tcholakova, N.D. Denkov, S. Stoyanov, E. Pelan, Surface rheology of saponin adsorption layers, *Langmuir* 27(20) (2011) 12486–12498.
25. Chanda S., D. Das, J. Das, K. Ismail, Adsorption characteristics of sodium dodecylsulfate and cetylpyridinium chloride at air/water, air/formamide and air/water formamide interfaces, *Colloid Surfaces A* 399 (2012) 56–61.
26. Chang C.-C., Adsorption kinetics of dioctyl sodium sulfosuccinate in aqueous NaCl solution, MSc. Thesis, National Taiwan University of Science and Technology, 2012.
27. Dey J., Studies on the micellization behavior of surfactants in selected solvent media, PhD Thesis, North-Eastern University, Australia, 2012.
28. Dey J., U. Thapa, K. Ismail, Aggregation and adsorption of sodium dioctylsulfosuccinate in aqueous ammonium chloride solution: Role of mixed counterions, *J. Colloid Interface Sci.* 367(1) (2012) 305–310.
29. Frackowiak R., G. Para, P. Warszynski, K.A. Wilk, New environmental friendly dicephalic amine dichlorides: Nonequivalent adsorption and interactions with model polyelectrolyte, *Colloid Surfaces A* 413 (2012) 108–114.
30. Le N.G., Influence of molecular structure on the adsorption of surfactants at water/air interface, PhD Thesis Department of Chemistry, Curtin University, 2012.
31. Liao Y.-C., Adsorption kinetics of sodium dodecylsulfate aqueous solution with NaCl, MSc. Thesis, National Taiwan University of Science and Technology, 2012.
32. Musa A.Y., A.A.H. Kadhum, A.B. Mohamad, M.S. Takriff, E.P. Chee, Inhibition of aluminum corrosion by phthalazinone and synergistic effect of halide ion in 1.0 M HCl, *Current Applied Physics* 12(1) (2012) 325–330.
33. Petkova R., S. Tcholakova, N.D. Denkov, Foamig and foam stability for mixed polymer-surfactant solutions: Effects of surfactant type and polymer charge, *Langmuir* 28(11) (2012) 4996–5009.
34. Barnaba C., M.A. Garcia-Alvarado, I.G. Medina-Meza, K.M. Tajero-Andrade, Langmuir adsorption isotherms for different organic solutions of cholesterol, *Revista Mexicana de Ingenieria Qumica* 12(2) (2013) 283–292.

35. Chang C.-C., Adsorption kinetics of dioctyl sodium sulfosuccionate in aqueous NaCl solution, National Taiwan University of Science and Technology, 2013.
36. Kuo C.-C., A theoretical study of ionic surfactant adsorption kinetics, National Taiwan University of Science and Technology, 2013.
37. Liu F., D. Wang, W. Liu, X. Wang, A. Bai, L. Huang, Ionic liquid-based ultrahigh pressure extraction of five tanshinones from *Salvia miltiorrhiza* Bunge, *Separation and Purification Technology* 110 (2013) 86–92.
38. Mucic N., V. Pradines, A. Javadi, A. Sharipova, Kraegel J., Leser M.E., Aksenenko E.V., Fainerman V.B., Miller R., Adsorption characteristics of ionic surfactants at water/hexane interface obtained by PAT and ODBA, *Emulsion Formation and Stability* 2013 98–108.
39. Randles E.G., Photo-induced release of liposome-encapsulated molecules, PhD Thesis, Boston University, 2013.
40. Takata Y., H. Tagashira, A. Hyono, H. Ohshima, Effect of counterion and configurational entropy on the surface tension of aqueous solutions of ionic surfactant and electrolyte mixtures, *Entropy* 115(4) (2013) 983–995.
41. Chen M., X. Lu, X. Liu, Q. Hou, Y. Zhu, H. Zhou, Temperature-dependent phase transition and desorption free energy of sodium dodecyl sulfate at the water/vapor interface: Approaches from Molecular dynamics simulations, *Langmuir* 30(35) (2014) 10600–10607.
42. De Keersmaecker M., D. Depl, K. Verbeken, A. Andriaensa, Electrochemical and surface study of neutralized dodecanoic acid on a lead substrate, *Journal of the Electrochemical Society* 161(3) (2014) C126–C137.
43. Lin C.-H., A study on the adsorption kinetics of ionic surfactants and evaporation behavior of sessile drop, MS Thesis, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2014.
44. Mchedlov-Petrosyan N.O., Adsorption of ionic surfactants on water/air interface: One more transformation of the Gibbs equation, *Surface Engineering and Applied Electrochemistry* 50(2) (2014) 173–182.
45. Anachkov S.E., S. Tcholakova, D.T. Dimitrova, N.D. Denkov, N. Subrahmaniam, P. Bhunia, *Colloids and Surfaces A* 468 (2015) 18–27.
46. Zielinski W., K.A. Wilk, G. Para, K. Ciszewski, J. Palus, P. Warszynski, Synthesis, surface activity and antielectrostatic properties of new soft dichain cationic surfactants, *Colloids and Surfaces A* 400 (2015) 63–70.
47. Botcher S., S. Drusch, Interfacial properties of saponin extracts and their impact on foam characteristics, *Food Biophysics* 11(1) (2016) 91–100.
48. Li N.N., R.K. Thomas, A.R. Rennie, Neutron reflectometry of anionic surfactants on sapphire: A strong maximum in the adsorption near the critical micelle concentration, *Journal of Colloid and Interface Science* 471 (2016) 81–88.
49. Zeng Y.-H., Advancing/receding contact angles measurement and the adsorption kinetics of ionic surfactants, MS Thesis, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2016.
50. Botcher S., S. Dursch, Saponins-Self-assembly and behavior at aqueous interfaces, *Advances in Colloid and Interface Science* 243 (2017) 105–113.
51. Kinoshita K., E. Parra, D. Needham, Adsorption of ionic surfactants at microscopic air-water interfaces using the micropipette interfacial area-expansion method: Measurement of the diffusion coefficient and renormalization of the mean ionic activity for SDS, *Journal of Colloid and Interface Science* 504 (2017) 765–779.
52. Sresht V., E.P. Lewandowski, D. Blankshtein, A. Jusufi, Combined molecular dynamics simulation-molecular-thermodynamic theory framework for predicting surface tension, *Langmuir* 33(33) (2017) 8319–8329.
53. Vatanparast H., A. Samiee, A. Bahramian, A. Javadi, Surface behavior of hydrophilic silica nanoparticle-SDS surfactant solutions: I. Effect of nanoparticle concentration on foamability and foam stability, *Colloids and Surfaces A* 513 (2017) 430–441.
54. Cho H.J., V. Sresht, E.N. Wang, Predicting surface tensions of surfactant solutions from statistical mechanics, *Langmuir* 34(6) (2018) 2386–2395.
55. Gugala-Fetner D., The effect of adenine adsorption on Zn(II) electroreduction in acetate buffer, *Acta Chim Slov.* 65 (2018) 1–8.
56. Hua X., J. Frechette, M.A. Bevan, Nanoparticle adsorption dynamics at fluid interfaces, *Soft Matter* 14(19) (2018) 3818–3828.
57. Hua X., M.A. Bevan, J. Frechette, Competitive adsorption between nanoparticles and surface active ions for the oil water interface, *Langmuir* 34(16) (2018) 4830–4842.

58. Jiang N., Y. Sheng, C. Li, S. Lu, Surface activity, foam properties, and aggregation behaviour of mixtures of short-chain fluorocarbon and hydrocarbon surfactants, *Journal of Molecular Liquids* 268 (2018) 249–255.
59. Lapucha J., Liquid content predictors for aqueous foams, PhD Thesis, Tulane University, 2018.
60. Lee J.G., L.L. Larive, K.T. Valsaraj, B. Bharti, Binding of lignin nanoparticles at oil-water interfaces: An eco-friendly alternative to oil spill recovery, *ACS Applied Materials and Interfaces* 10(49) (2018) 43282–43289.
61. Llamas S., E. Santini, L. Liggieri, L. Cristofolini, F. Ravera, Adsorption of sodium dodecyl sulfate at water-dodecane interface in relation to the oil in water emulsion properties, *Langmuir* 34 (2018) 5978–5989.
62. Mchedlov-Petrosyan N.O., The Davies equation of state of ionic surfactant adsorbed monolayer and related problems, *Colloids Surfaces A* 537 (2018) 325–333.
63. Sultana N., Role of ammonium ion on the aggregation and adsorption properties of sodium dodecylsulfate, *Journal of Dispersion Science and Technology* 39(1) (2018) 92–99.
64. Forth J., P.Y. Kim, G. Xie, X. Liu, B.A. Helms, T.P. Russell, Building reconfigurable devices using complex liquid-fluid interfaces, *Advances Materials* 31 (2019) 1806370.
65. Saxena N., A. Kumar, A. Mandal, Adsorption analysis of natural anionic surfactants for enhanced oil recovery: The role of mineralogy, salinity, alkalinity and nanoparticles, *Journal of Petroleum Science and Engineering* 173 (2019) 1264–1283.
66. Chen Y., C.S. Dutscher, Size dependent droplet interfacial tension and surfactant transport in liquid-liquid systems, with applications in shipboard oily bilgewater emulsions, *Soft Matter* 16 (2020) 2994–3004.
67. Chorlay A., A.R. Thiam, Neutral lipids regulate amphipathic helix affinity for model lipid droplets, *Journal of Cell Biology* 219 (2020) e201907099.
68. Machale J., S.K. Majumder, P. Ghosh, T.K. Sen, A. Saeedi, Impact of mineralogy, salinity, and temperature on the adsorption characteristics of a novel natural surfactant for enhanced oil recovery, *Chemical Engineering Communications* (2020).
69. Peng M., A.V. Nguyen, Adsorption of ionic surfactants at the air/water interface: The gap between theory and experiment, *Advances in Colloid and Interface Science* 275 (2020) 102052.
70. Seo H.W., N. Jung, C.S. Yoo, Oscillation dynamics of colloidal particles caused by surfactant in an evaporating drop, *Journal of Mechanical Science and Technology* 34(2) (2020) 801–808.
71. Werkhoven B., Static and dynamic solid water interfaces. Charge regulation, diffusio-osmosis and heterogeneous electrokinetics, PhD Thesis, Utrecht University, 2020.
72. Wolanin J., L. Barre, C. Dalmazzone, H. Perrot, D. Bauer, Insight into kinetics and mechanisms of AOT vesicle adsorption on silica in unfavorable conditions, *Langmuir* 36 (2020) 1937–1949.
73. Giri S.S., Application of Microbial Biosurfactants in the Pharmaceutical Industry, in: *Microbial Biosurfactants*, 2021, 251–269.
74. Le S.-T., Y. Gao, T.C.G. Kibbey, W.C. Glamore, D.M. O'Carroll, A new framework for modeling the effect of salt on interfacial adsorption of PFAS in environmental systems, *Science of the Total Environment* 796 (2021) 148893.
75. Lee J.G., Adsorption and transport of colloids at interface and bulk, PhD Thesis, Department of Chemical Engineering, North Carolina State University, 2021.
76. Ware N.A., Transfer kinetics and analysis of solid-solid electrochemical interfaces, PhD Thesis, California University 2021.
77. Li Y., W. Xu, H. Li, J. Lai, S. Giang, Corrosion inhibition mechanism of Xanthium sibiricum inhibitor and its comprehensive effect on concrete performance: Experimental analysis and theoretical calculation, *Construction and Building Materials* 348 (2022) 128672.
78. Li Y., W. Xu, J. Lai, S. Qiang, Inhibition effect and mechanism explanation of perilla seed extract as a green corrosion inhibitor on Q235 carbon steel, *Materials* 15 (2022) 5394.
79. Machale J., S.K. Majumder, P. Ghosh, T.K. Sen, A. Saeedi, Impact of mineralogy, salinity, and temperature on the adsorption characteristics of a novel natural surfactant for enhanced oil recovery, *Chemical Engineering Communications* 209 (2022) 143–157.
80. Warszynski P., L. Szyk-Warszynska, K.A. Wilk, Lamch, Adsorption of cationic multicharged surfactants at liquid-gas interface, *Current Opinion in Colloid and Interface Science* 59 (2022) 101577.
81. Chen L., Y. Shi, S. Xu, J. Xiong, F. Gao, S. Zhang, H. Li, Enhanced adsorption of target branched compounds including antibiotic norfloxacin frameworks on mild steel surface for efficient protection: An experimental and molecular modelling study, *Chinese Journal of Chemical Engineering* 60 (2023) 212–227.
82. Costa S.N., F.W.Q. Almeida-Neto, E.S. Marinho, O.S. Campos, A.N. Correia, P. de Lma-Neto, Inhibition of Copper Corrosion in Acid Medium by Imidazole-Based Compounds: Electrochemical and Molecular Approaches, *Journal of the Brazilian Chemical Society* 34 (2023) 309–324.



83. Gao Y., S.T. Le, W. Glamore, D.M. O'Carroll, A fundamental model for calculating interfacial adsorption of complex ionic and nonionic PFAS mixtures in the presence of mixed salts, *Environmental Science: Processes and Impacts* 25 (2023) 1830–1838.
  84. Lovric M., Simulation of adsorption at rotating disk, *Tenside, Surfactants, Detergents* 60 (2023) 519–526.
  85. Pavlovich M., H.K. Ramiya Ramesh Babu, S. Djalali, Z. Pavlovich, M. Vranes, L. Zeininger, Dynamic In Situ Monitoring of the Salt Counter-ion Effect on Surfactant Effectiveness Using Reconfigurable Janus Emulsions, *Langmuir* 39 (2023) 2152–2160.
  86. Rajabi H., Modelling surface active species transport during a foam fractionation process with reflux, PhD Thesis, Department of Chemical and Process Engineering, University of Strathclyde, 2023.
  87. Rajabi H., P. Grassia, Transport of soluble surfactant on and within a foam film in the context of a foam fractionation process, *Chemical Engineering Science* 265 (2023) 118171.
  88. Ren W., Y. Shi, L. Chen, S. Yang, S. Zhang, X. Liu, X. Ren, H. Li, Multi-fluorous-included Counter Anions-based Ionic Copolymers: Synthesis and Enhanced Hydrophobic Adsorption Films on Copper Surface for Super Protection, *Chemical Research in Chinese Universities* 39 (2023) 845–856.
  89. Wu X., G. Bordia, R. Streubel, J. Hasnain, C.C.S. Pedrozo, B.E. Cohen, B. Rad, P. Ashby, A.K. Omar, P.L. Geissler, D. Wang, H. Xue, Ballistic Ejection of Microdroplets from Overpacked Interfacial Assemblies, *Advanced Functional Materials* 33 (2023) 2213844.
- 99 N.C. Christov, D.N. Ganchev, N.D. Vassileva, N.D. Denkov, K.D. Danov, P.A. Kralchevsky, Capillary mechanisms in membrane emulsification: oil-in-water emulsions stabilized by Tween 20 and milk proteins, *Colloids Surfaces A* 209 (2002) 83–104. (брой: 113)**
1. Gijsbertsen–Abrahamse A.J., Membrane Emulsification: Process Principles, PhD Thesis, Wageningen University, The Netherlands, 2003.
  2. Kobayashi I., M. Nakajima, S. Mukataka, Preparation characteristics of oil-in-water emulsions using differently charged surfactants in straight-through microchannel emulsification, *Colloids Surfaces A* 229(1–3) (2003) 33–41.
  3. Kocherginsky N.M., C.L. Tan, W.F. Lu, Demulsification of water-in-oil emulsions via filtration through a hydrophilic polymer membrane, *J. Membrane Sci.* 220(1–2) (2003) 117–128.
  4. Charcosset C., I. Limayem, H. Fessi, The membrane emulsification process – a review, *J. Chem. Technol. Biot.* 79(3) (2004) 209–218.
  5. Geerken M.J., T.S. van Zonten, R.G.H. Lammertink, Z. Borneman, W. Nijdam, C.J.M. van Rijn, M. Wessling, Chemical and thermal stability of alkylsilane based coatings for membrane emulsification, *Adv. Eng. Materials* 6(9) (2004) 749–754.
  6. Gijsbertsen–Abrahamse A.J., A. van der Padt, R.M. Boom, Status of cross-flow membrane emulsification and outlook for industrial application, *J. Membrane Sci.* 230(1–2) (2004) 149–159.
  7. Lambrich U., G.T. Vladislavjevic, Emulsification using microstructured systems, *Chem. Ing. Tech.* 76(4) (2004) 376–383.
  8. McClements, D.J., *Food Emulsions: Principles, Practices and Techniques*, 2<sup>nd</sup> Ed., CRC Press, Boca Raton, FL, 2004; p. 553.
  9. Rayner M., G. Trägärth, C. Trägärth, P. Dejmeck, Using the surface evolver to model droplet formation processes in membrane emulsification, *J. Colloid Interface Sci.* 279(1) (2004) 175–185.
  10. Van der Graaf S., C.G.P.H. Schroën, R.G.M. van der Sman, R.M. Boom, Influence of dynamic interfacial tension on droplet formation during membrane emulsification, *J. Colloid Interface Sci.* 277(2) (2004) 456–463.
  11. Zimmermann T., E. Pöhler, T. Geiger, Cellulose fibrils for polymer reinforcement, *Advanced Engineering Materials* 6(9) (2004) 754–761.
  12. Astete R.C.E., Synthesis of Poly(DL-Lactide–Co–Glycolide) Nanoparticles with Entrapped Magnetite, PhD Thesis, The Department of Biological and Agricultural Engineering, Graduate Faculty of the Louisiana State University, USA, 2005.
  13. Charcosset C., H. Fessi, Membrane emulsification and microchannel emulsification processes, *Rev. Chem. Eng.* 21(1) (2005) 1–32.
  14. Holtze C.H.W., New influences and applications of microwave-radiation on miniemulsions and their composite polymers, PhD Thesis, Potsdam University, 2005.
  15. Jing W.H., J. Wu, W.H. Xing, N.P. Xu, Emulsions prepared by two-stage ceramic membrane jet-flow emulsification, *AIChE J.* 51(5) (2005) 1339–1345.
  16. Lambrich U., H. Schubert, Emulsification using microporous systems, *J. Membrane Sci.* 257(1–2) (2005) 76–84.

17. Liu R., G.H. Ma, Y.H. Wan, Z.G. Su, Influence of process parameters on the size distribution of PLA microcapsules prepared by combining membrane emulsification technique and double emulsion–solvent evaporation method, *Colloids Surfaces B* 45 (3–4) (2005) 144–153.
18. Lyklema J. (Ed.), *Fundamentals of Interface and Colloid Science*, Vol. 5: Soft Colloids, Elsevier, Amsterdam, 2005, p. 165.
19. Rayner M., G. Trägårdh, C. Trägårdh, The impact of mass transfer and interfacial expansion rate on droplet size in membrane emulsification processes, *Colloids Surfaces A* 266(1–3) (2005) 1–17.
20. Van der Graaf S., C.G.P.H. Schroen, R.M. Boom, Preparation of double emulsions by membrane emulsification – a review, *J. Membrane Sci.* 251(1–2) (2005) 7–15.
21. Van der Graaf S., M.L.J. Steegmans, R.G.M. van der Sman, C.G.P.H. Schroen, R.M. Boom, Droplet formation in a T-shaped microchannel junction: a model system for membrane emulsification, *Colloids Surfaces A* 266(1–3) (2005) 106–116.
22. Vladisavljević G.T., R.A. Williams, Recent developments in manufacturing emulsions and particulate products using membranes, *Adv. Colloid Interface Sci.* 113(1) (2005) 1–20.
23. Zhu J., D. Barrow, Analysis of droplet size during crossflow membrane emulsification using stationary and vibrating micromachined silicon nitride membranes, *J. Membrane Sci.* 261(1–2) (2005) 136–144.
24. Astete C.E., C.M. Sabliov, Synthesis and characterization of PLGA nanoparticles, *J. Biomaterials Sci. – Polymer Edition* 17(3) (2006) 247–289.
25. Bao D., J. Zheng, Y. Zhao, X. Ma, Q. Yuan, Membrane emulsification technique and its application, *Chemistry Bulletin/Huaxue Tongbao* 69(4) (2006) 241–246.
26. Cheng Cheng–Tso, Development of novel droplet formation platforms, M.Sc. Thesis, The Department of Engineering Sci., National Cheng Kung University, Tainan, Taiwan, 2006; p. 100.
27. Dickinson E., Structure formation in casein-based gels, foams, and emulsions, *Colloids Surfaces A* 288(1–3) (2006) 3–11.
28. Geerken M.J., Emulsification with micro–engineering devices, PhD Thesis, Twente University, 2006.
29. Hsiung S.K., C.T. Chen, G.B. Lee, Micro–droplet formation utilizing microfluidic flow focusing and controllable moving–wall chopping techniques, *J. Micromechanics and Microengineering* 16(11) (2006) 2403–2410.
30. Jing W.H., J. Wu, W.Q. Jin, W.H. Xing, N.P. Xu, Monodispersed W/O emulsion prepared by hydrophilic ceramic membrane emulsification, *Desalination* 191(1–3) (2006) 219–222.
31. Jorn M., Emulsification with micro–engineered devices, PhD Thesis, University of Twente, 2006.
32. Langevin, D., Oil–water Emulsions, In: *Encyclopedia of Surface and Colloid Science*, Vol. 6, 2nd Ed., P. Somasundaran, Ed., Taylor & Frances, New York, 2006; p. 4286.
33. Limayem Blouza I., C. Charcosset, S. Sfar, H. Fessi, Preparation and characterization of spirinolactone–loaded nanocapsules for paediatric use, *Int. J. Pharmaceutics* 325(1–2) (2006) 124–131.
34. Li N., D.-F. Chen, Membrane emulsification process and its application, *Membrane Science and Technology* 26 (4) (2006) 71–77.
35. Sumin L., H. Wang, Y. Ma, Influences of membrane parameters on membrane emulsification, *J. Chem. Ind. Eng.* 27(2) (2006) 32–37.
36. Tarko T., Predicting the stability of advocaat type EGG liqueurs on a base of selected evaluation indicators, *Acta Sci. Pol., Technol. Aliment.* 5(1) (2006) 37–45.
37. Van der Graaf S., Membrane Emulsification: Droplet Formation and Effects of Interfacial Tension, PhD Thesis, Wageningen University, The Netherlands, 2006.
38. Van der Graaf S., T. Nisisako, C.G.P.H. Schroën, R.G.M. van der Sman, R.M. Boom, Lattice Boltzmann simulations of droplet formation in a T-shaped microchannel, *Langmuir* 22(9) (2006) 4144–4152.
39. Van der Sman R.G.M., S. van der Graaf, Diffuse interface model of surfactant adsorption onto flat and droplet interfaces, *Rheologica Acta* 46(1) (2006) 3–11.
40. Van der Sman, R.G.M., Lattice Boltzmann Simulation of Microstructures, Chapter 2 in *Handbook of Food and Bioprocess Modeling Techniques*, S.S. Sablani et al. Eds., CRC Press, Boca Raton, 2006; p.15–39.
41. Chen D.-F., N. Li, J. Yang, Experimental study on the preparation of O/W emulsions by SPG membrane emulsification, *Airiti Library* 27(3) (2007) 10–14.
42. Geerken M.J., R.G.H. Lammertink, M. Wessling, Interfacial aspects of water drop formation at micro–engineered orifices, *J. Colloid Interface Sci.* 312(2) (2007) 460–469.
43. Geerken M.J., R.G.H. Lammertink, M. Wessling, Tailoring surface properties for controlling droplet formation at microsieve membranes, *Colloids Surfaces A* 292(2–3) (2007) 224–235.
44. Gu L., X.-M. Li, G.-G. Chen, Application of membrane emulsification technology to particulate delivery systems, *Chinese Journal of Pharmaceuticals* 38(11) (2007) 814.
45. Kukizaki M., M. Goto, Preparation and characterization of a new asymmetric type of Shirasu porous glass (SPG) membrane used for membrane emulsification, *J. Membrane Sci.* 299(1–2) (2007) 190–199.

46. Lee C.H., S.K. Hsiung, G.B. Lee, A tunable microflow focusing device utilizing controllable moving walls and its applications for formation of micro-droplets in liquids, *J. Micromechanics and Microengineering* 17(6) (2007) 1121–1129.
47. Tarko T., T. Tuszyński, Influence of selected additives on colloid stability of alcoholic emulsion creams, *Polish Journal of Food and Nutrition Sciences* 57(1) (2007) 17–24.
48. Wei F.L., Y.Z. Liu, X.F. Tang, J.R. Hou, X.A. Yue, C.M. Xiong, Gongneng Cailiao/Journal of Functional Materials 38(6) (2007) 961–964.
49. Zimmermann T., Cellulose fibrils in wood cell walls and their potential for technical application, PhD Thesis, University of Hamburg, 2007.
50. Charcosset C., Recent advances in membrane processes for the preparation of emulsion and particles, *Biotechnology: Research, Technology and Applications* (2008) 253–276.
51. Dragosavac M.M., M.N. Sovilj, S.R. Kosvintsev, R.G. Holdich, G.T. Vladisavljevic, Controlled production of oil-in-water emulsions containing unrefined pumpkin seed oil using stirred cell membrane emulsification, *J. Membrane Sci.* 322 (2008) 178–188.
52. Lepercq-Bost E., M.L. Giorgi, A. Isambert, C. Arnaud, Use of the capillary number for the prediction of droplet size in membrane emulsification, *Journal of Membrane Science* 314(1–2) (2008) 76–89.
53. Lin Y.-H., C.-H. Lee, G.-B. Lee, Droplet formation utilizing controllable moving-wall structures for double-emulsion applications, *Journal of Microelectromechanical Systems* 17(3) (2008) 573–581.
54. Sanchez L., E. Lacasa, M. Carmona, J.F. Rodrigues, P. Sanchez, Applying an experimental design to improve the characteristics of microcapsules containing phase change materials for fabric uses, *Industrial and Engineering Chemistry Research* 47(23) (2008) 9783–9790.
55. Slowicka A.M., Badanie metoda dynamiki molekularnej powstawanie wybranych nanostruktur w emulsjach, PhD Thesis, Instytut Podstawowych Problemów Techniki PAN, Warszawa, 2008.
56. Charcosset C., Preparation of emulsions and particles by membrane emulsification for the food processing industry, *Journal of Food Engineering* 92(3) (2009) 241–249.
57. Choi, Chang-Hyung; Jung, Jae-Hoon; Hwang, Taek-Sung; Lee, Chang-Soo., *Macromolecular Research* 17(3) (2009) 163–167.
58. Kukizaki M., M. Goto, A comparative study of SPG membrane emulsification in the presence and absence of continuous-phase flow, *J. Chemical Engineering of Japan* 42(7) (2009) 520–530.
59. Kukizaki M., Shirasu porous glass (SPG) membrane emulsification in the absence of shear flow at the membrane surface: Influence of surfactant type and concentration, viscosities of dispersed and continuous phases, and transmembrane pressure, *Journal of Membrane Science* 327(1–2) (2009) 234–243.
60. Lee C.Y., Y.H. Lin, G.B. Lee, A droplet-based microfluidic system capable of droplet formation and manipulation, *Microfluidics and Nanofluidics* 6(5) (2009) 599–610.
61. Lepercq-Bost T., M.-L. Giorgi, A. Isambert, C. Arnaud, Estimating the risk of coalescence in membrane emulsification, *Journal of Membrane Science* 357(1–2) (2010) 36–46.
62. Ma L.N., Y.N. Hui, Y.S. Wang, L. Zhang, J.X. Ma., Inhibition of migration but stimulation of proliferation of human retinal pigment epithelial cells cultured with uniform vesicles of silicone oil, *Graefe's Archive for Clinical and Experimental Ophthalmology* 248(4) (2010) 503–510.
63. Marino H., Phase inversion temperature emulsification: From batch to continuous processes, PhD Thesis, University of Bath, 2010.
64. Sanchez-Silva L., M. Carmona, A. De Lucas, P. Sanchez, J.F. Rodrigues, Scale-up of a suspension-like polymerization process for the microencapsulation of phase change materials, *Journal of Microencapsulation* 27(7) (2010) 583–593.
65. Zhang C., J. Liu, Y. Bai, J. Gu, Y. Sun, Preparation for emulsified diesel with ultrafiltration membrane, *Chemical Industry and Engineering Progress* 29(11) (2010) 2066.
66. Boom R.M., C.G.H.P. Schroen, Emulsification with micro-structured membranes and micro-engineered systems, *Progress in Colloid and Interface Science*, Vol. 2, 2011, 481–502.
67. Gu Y., H. Kojima, N. Miki, Theoretical analysis of 3D emulsion droplet generation by a device using coaxial glass tubes, *Sensors and Actuators, A: Physical* 169(2) (2011) 326–332.
68. Aschauer S.J., Kontinuierliche Isobutan/2-Buten Alkylierung in einem Tropfensäulenreaktor unter Verwendung von sauren ionischen Flüssigkeiten als Katalysatoren, PhD Thesis, University of Bayreuth, Faculty of Engineering Science, 2012.
69. Charcosset C., *Membrane Processes in Biotechnology and Pharmaceuticals*, 2012, 1–336.
70. Habib M., A.R. Memon, U. Habib, A. Khan, U. Amin, S. Naveed, S. Ali, Energy-Efficient and Environmentally Sound Technique of Emulsification and Phase Inversion for Producing Stable Droplets – Application of Membrane Emulsification to Polymerization: A Review, *Pak. J. Anal. Environ. Chem.* Vol. 13, No. 2 (2012) 87–102.

71. Hawley B., The Purification and Identification of Interactors to Elucidate Novel Connections in the HEK 293 Cell Line, PhD Thesis, University of Ottawa, Canada, 2012.
72. Liu Q., S. Yuan, H. Yan, X. Zhao, Mechanics of oil detachment from a silica surface in aqueous surfactant solutions: Molecular dynamics simulations, *Journal of Physical Chemistry B* 116(9) (2012) 2867–2875.
73. Pawlik A.K., I.T. Norton, Encapsulation stability of duplex emulsions prepared with SPG cross-flow membrane, SPG rotating membrane and rotor-stator techniques – a comparison, *Journal of Membrane Science* 415–416 (2012) 459–468.
74. Suarez M.A., Emulsificación con membranas: emulsiones monodispersas y parámetros de paso de escala, PhD Thesis, Universidad de Oviedo, 2012.
75. Suarez M.A., J. Coca, C. Pazos, Membrane emulsification: factors influencing the size and distribution of drops, *Ingeniería Química (Spain)* 44(505) (2012) 58–73.
76. Douaire M., Norton I.T., Designer colloids in structured food for the future, *Journal of the Science of Food and Agriculture* 93(13) (2013) 3147–3154.
77. Hancocks R.D., F. Spiropoulos, I.T. Norton, Comparisons between membranes for use in cross flow membrane emulsification, *Journal of Food Engineering* 116(2) (2013) 382–389.
78. Huck Iriart C., Propiedades fisicoquímicas de microemulsiones estabilizadas con caseinato de sodio, PhD Thesis, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, 2013.
79. Kenta S., V. Raikos, A. Vagena, D. Sevastos, J. Kapolos, A. Koliadima, G. Karaiskakis, Kinetic study of aggregation of milk protein and/or surfactant-stabilized oil-in-water emulsions by Sedimentation Field-Flow Fractionation, *Journal of Chromatography A* 1305 (2013) 221–229.
80. Matos M., M.A. Suarez, G. Gutierrez, J. Coca, C. Pazos, Emulsification with microfiltration ceramic membranes: a different approach to droplet formation mechanism, *Journal of Membrane Science* 444 (2013) 345–358.
81. Pawlik A.K., I.T. Norton, SPG rotating membrane technique for production of food grade emulsions, *Journal of Food Engineering* 114(4) (2013) 530–537.
82. Pradhan R., D.W. Lee, H.-G. Choi, C.S. Yong, J.O. Kim, Fabrication of a uniformly sized fenofibrate microemulsions by membrane emulsification, *Journal of Microencapsulation* 30(1) (2013) 42–48.
83. Schmidt J., Damm C., Romeis S., Peukert W., Formation of nanoemulsions in stirred media mills, *Chemical Engineering Science* 102 (2013) 300–308.
84. Suarez M.A., G. Gutierrez, J. Coca, C. Pazos, Stirred tank membrane emulsification using flat metallic membranes: a dimensional studies, *Chemical Engineering and Processing: Process Intensification* 69 (2013) 31–43.
85. Bishopp S., A solvent-free alternative for green liquid-liquid biphasic oxidations, PhD Thesis, University of Bath, 2014.
86. Intarasirisawat R., S. Benjakul, W. Visessanguan, Stability of emulsion containing skipjack roe protein hydrolysate modified by oxidised tannic acid, *Food Hydrocolloids* 41 (2014) 146–155.
87. Piacentini E., A. Imbrogno, E. Drioli, L. Giorno, Membranes with tailored wettability properties for the generation of uniform emulsion droplets with high efficiency, *Journal of Membrane Science* 459 (2014) 96–103.
88. Spyropoulos F., D. M. Lloid, R. D. Hancocks, A. K. Pawlik, Advances in membrane emulsification. Part A: Recent developments in processing aspects and microstructural design approaches, *Journal of the Science of Food and Agriculture* 94(4) (2014) 613–627.
89. Suarez M.A., G. Gutierrez, M. Matos, J. Coca, C. Pazos, Emulsification using tubular metallic membranes, *Chemical Engineering and Processing: Process Intensification* 81 (2014) 24–34.
90. Sun G., F. Qi, J. Wu, G. Ma, T. Ngai, Preparation of uniform particle-stabilized emulsions using SPG membrane emulsification, *Langmuir* 30(24) (2014) 7052–7056.
91. Zhang P. Z. Xu, Q. Liu, S. Yuan, Mechanism of oil detachment from hybrid hydrophobic and hydrophilic surface in aqueous solution, *Journal of Chemical Physics* 140(16) (2014) 164702.
92. Dejan C., Physico-chemical properties of mixed micelles of salt of nile acids and nonionic surfactants, PhD Thesis, University Novi Sad, 2015.
93. Mi Y., W. Zhou, Q. Li, F. Gong, R. Zhang, G. Ma, Z. Su, Preparation of water-in-oil emulsions using a hydrophobic polymer membrane with 3D bicontinuous skeleton structure, *Journal of Membrane Science* 490 (2015) 113–119.
94. Schmidt J., S. Romeis, C. Konerth, C. Damm, W. Peukert, Formation of nanoemulsions by stirred media milling, *Procedia Engineering* 102 (2015) 557–564.
95. Benson J.J., L.P. Wackett, A. Aksan, Production of monodisperse silica gel microspheres for bioencapsulation by extrusion into an oil cross-flow, *Journal of Microencapsulation* 33(5) (2016) 412–420.
96. Bertrandias A., Understanding drop generation mechanisms in transversally vibrating membrane emulsification, PhD Thesis, University Paris-Saclay, 2016.



97. Zhang L., D. Chen, M. Long, H. Chen, Y. Huang, Z. Dong, Study on the fluid flow in a semi-open-stream-poured beam blank continuous casting mold with submerged refractory funnels by multiphase modelling, *Metals* 6(5) (2016) 104.
  98. Obradovic S., Termodinamicka stabilnost binarnih mesovitih micela odabranih homologa iz grupa brij surfaktanata I polisorbata, PhD Thesis, University Novi Sad, 2017.
  99. Xu K., T. Liang, P. Zhu, P. Qi, J. Lu, C. Huh, M. Balhoff, A 2.5-D glass micromodel for investigation of multi-phase flow, *Lab on a Chip* 17(4) (2017) 640–646.
  100. Arouni H., U. Farouq, P. Goswami, N. Kapur, S.J. Russell, Limitations of monoolein in simulating water-in-fuel characteristics of EN590 diesel containing biodiesel in water separation testing, *SAE International Journal of Fuels and Lubricants* 11(3) (2018) 229–238.
  101. Luis P. Membrane contactors, *Fundamental Modeling of Membrane Systems: Membrane and Process Performance*, (2018) 153–10.
  102. Medina Limas M., High throughput manufacturing of nanoparticles by membrane emulsification-precipitation processes, PhD Thesis, Department of Chemical Engineering, Bath University, 2018.
  103. Arkoumanis P.G., I.T. Norton, F. Spyropoulos, Pickering particle and emulsifier co-stabilised emulsions produced via rotating membrane emulsification, *Colloids and Surfaces A* 568 (2019) 481–492.
  104. Obinu A., G. Rassu, P. Corona, M. Maestri, F. Riva, D. Miele, P. Giunchedi, E. Gavini, Poly (ethyl 2-cyanoacrylate) nanoparticles (PECA-NPs) as possible agents in tumor treatment, *Colloids and Surfaces B* 177 (2019) 520–528.
  105. Denk B., T. Neef, K. Schroen, J. de Ruiter, Mapping bubble formation and coalescence in a tubular cross-flow membrane foaming systems, *Membranes* 11 (2021) 710.
  106. Maleki M., C. de Loubens, K. Xie, E. Talansier, H. Bodiguel, M. Leonetti, Membrane emulsification for the production of suspensions of uniform microcapsules with tunable mechanical properties, 237 (2021) 116567.
  107. Feng J., Z. Valkova, E.E. Lin, E. Nourafkan, T. Wang, S. Tcholakova, R. Slavchov, S.K. Smoukov, Minimum surfactant concentration required for inducing self-shaping of oil droplets and competitive adsorption effects, *Soft Matter* 18 (2022) 6729–6738.
  108. Hu Y., X. Yan, T. Li, J. Chen, W. Wei, G. Ma, Effects of membrane pore activation on microporous membrane emulsification process and emulsion droplet formation, *Colloid and Polymer Science* 300 (2022) 297–307.
  109. Huang Z., I. Jurewicz, E. Munoz, R. Garriga, J.L. Keddie, Pickering emulsions stabilized by carboxylated nanodiamonds over a broad pH range, *Journal of Colloid and Interface Science* 608 (2022) 2025–2038.
  110. Zhou Z., J. Wang, G. Wang, Z. Chi, Y. Weng, Study on pore size of bubble maturation characteristics in porous media, *Chemical Industry and Engineering Progress* 41 (2022) 1265–1271.
  111. Guirguis N., Y. Zallagui, S. Matoori, Real-Time Tracking of In Situ-Forming Alginate Hydrogel by Contrast-Enhanced Computed Tomography, *The AAPS Journal* 25 (2023) 79.
  112. Heyse A., M.M. Goessmann, P. Giefer, P. Gaebel, U. Frisching, A.M. Wagemans, S. Drusch, Lipase adsorption during premix-membrane emulsification affects membrane surface properties and structural conformation of lipase, *Process Biochemistry* 132 (2023) 75–85.
  113. Ma G., *Novel Membrane Emulsification: Principles, Preparation, Processes, and Bioapplications*, 2023.
- 98 K.D. Danov, D.S. Valkovska, P.A. Kralchevsky, Adsorption relaxation for nonionic surfactants under mixed barrier–diffusion and micellization–diffusion control, *J. Colloid Interface Sci.* 251 (2002) 18–25. (брой: 30)**
1. Joos P., A. Tomoia–Cotisel, A.J. Sellers, M. Tomoia–Cotisel, Adsorption kinetics of some carotenoids at the oil/water interface, *Colloids Surfaces B* 37(3–4) (2004) 83–91.
  2. Spyridopoulos M.T., S.J.R. Simons, Effect of natural organic matter on the stability of a liquid film between two colliding bubbles, *Colloids Surfaces A* 235(1–3) (2004) 25–34.
  3. Tomoia–Cotisel M., P. Joos, Adsorption dynamics with interfacial reaction, *Rev. Roumaine de Chimie* 49(6) (2004) 539–553.
  4. Yang C., Y. Gu, Modeling of the adsorption kinetics of surfactants at the liquid–fluid interface of a pendant drop, *Langmuir* 20(6) (2004) 2503–2511.
  5. Padron G.A., Effect of surfactants on drop size distributions in a batch, rotor–stator mixer, PhD Thesis, University of Maryland, 2005.
  6. Rodriguez–Abreu C., H. Kunieda, Equilibrium and dynamic surface tension properties of aqueous solutions of sulfonated cationic–nonionic fluorocarbon surfactants, *J. Dispersion Sci. Technology* 26(4) (2005) 435–440.
  7. Fainerman V.B., V.D. Mys, A.V. Makievski, J.T. Petkov, R. Miller, Dynamic surface tension of micellar solutions in the millisecond and submillisecond time range, *J. Colloid Interface Sci.* 302(1) (2006) 40–46.

8. Gliere A., C. Delattre, Modeling and fabrication of capillary stop valves for planar microfluidic systems, *Sensors and Actuators A – Physical* 130–131 (2006) 601–608.
  9. Moorkanikkara S.N., D. Blankschtein, Short-time behavior of mixed diffusion-barrier controlled adsorption, *J. Colloid Interface Sci.* 296(2) (2006) 442–457.
  10. Song Q., A. Couzis, P. Somasundaran, C. Maldarelli, A transport model for the adsorption of surfactant from micelle solutions onto a clean air/water interface in the limit of rapid aggregate disassembly relative to diffusion and supporting dynamic tension experiments, *Colloids Surfaces A* 282–283 (2006) 162–182.
  11. Moorkanikkara S.N., Development of novel methodologies to analyze the adsorption kinetics of nonionic surfactants, PhD Thesis, MIT, 2007.
  12. Sharma S.C., L.K. Shrestha, K. Aramaki, Foam stability study of dilute aqueous nonionic fluorinated surfactant systems, *Journal of Nepal Chemical Society* 22 (2007) 47–54.
  13. Sharma S.C., L.K. Shrestha, K. Aramaki, Interfacial properties of aqueous nonionic fluorocarbon surfactant solutions, *J. Dispersion Sci. Technology* 28(4) (2007) 577–581.
  14. Yang M.-W., H.-H. Wei, S.-Y. Lin, A theoretical study on surfactant adsorption kinetics: effect of bubble shape on dynamic surface tension, *Langmuir* 23(25) (2007) 12606–12616.
  15. Fainerman V.B., J.T. Petkov, R. Miller, Surface dilational viscoelasticity of C<sub>14</sub>EO<sub>8</sub> micellar solution studied by bubble profile analysis tensiometry, *Langmuir* 24 (2008) 6447–6452.
  16. Picard C., L. Davoust, Transient aging of a liquid–gas interface stretched by standing waves: On the interplay of chemical kinetics, *Journal of Colloid and Interface Science* 327(2) (2008) 412–425.
  17. Shrestha L.K., Y. Matsumoto, K. Ihara, K. Aramaki, Dynamic surface tension and surface dilatational elasticity properties of mixed surfactant/protein systems, *J. Oleo Sci.* 57(9) (2008) 485–494.
  18. Tcholakova S., N.D. Denkov, A. Lips, Comparison of solid particles, globular proteins and surfactants as emulsifiers, *Physical Chemistry Chemical Physics* 10(12) (2008) 1608–1627.
  19. Miller, R.; Noskov, B.A.; Fainerman, V.B.; Petkov, J.T., In: *Highlights in Colloid Science*, D. Platikanov and D. Exerowa (Eds.), Wiley, New York, 2009.
  20. Bhole N.S., F. Huang, C. Maldarelli, Fluorescence visualization and modeling of a micelle-free zone formed at the interface between an oil and an aqueous micellar phase during interfacial surfactant transport, *Langmuir* 26(20) (2010) 15761–15778.
  21. Fainerman V.B., R. Miller, Maximum bubble pressure tensiometry: Theory, analysis of experimental constraints and application, in: *Bubble and Drop Interfaces*, R. Miller and L. Ligiery, Eds., 2011, Ch. V.
  22. Gurkov T., Adsorption kinetics under the influence of barriers at the subsurface layer, *Colloid and Polymer Science* 289(17–18) (2011) 1905–1915.
  23. Song Q., M. Yuan, Visualization of an adsorption model for surfactant transport from micelle solutions to a clean air/water interface using fluorescence microscopy, *J. Colloid Interface Sci.* 357 (2011) 179–188.
  24. Kazemzadeh A., P. Ganesan, F. Ibrahim, S. He, M.J. Madou, The effect of contact angles and capillary dimensions on the burst frequency of super hydrophilic and hydrophilic centrifugal microfluidic platforms, a CFD study, *PLoS ONE* 8(9) (2013) 73002.
  25. Choudhury S., S. Batabyal, P.K. Mondal, P. Singh, P. Lemmens, S.K. Pal, Direct observation of kinetics pathways of biomolecular recognition, *Chemistry – A European Journal* 21(45) (2015) 16172–16177.
  26. Iliev O., Z. Lakdawala, K.H.J.L. Nessler, T. Prill, Y. Vutov, Y. Yang, J. Yao, On the pore-scale modeling and simulation of reactive transport in 3D geometries, *Mathematical Modelling and Analysis* 22(5) (2017) 671–694.
  27. Muhamad R., M. Misran, Adsorption kinetics of partially ionized fatty acids at oil/water interface of their monomeric and liposomal solutions, *Colloids and Surfaces A* 528 (2017) 23–29.
  28. Onaizi S.A., Dynamic surface tension and adsorption mechanism of surfactin biosurfactant at the air–water interface, *European Biophysics Journal* 47 (2018) 631–640.
  29. Minkov I.L., D. Arabadzhieva, I.E. Salama, E. Mileva, R.I. Slavchov, Barrier kinetics of adsorption-desorption of alcohol monolayers on water under constant surface tension, *Soft Matter* 15(8) (2019) 1730–1746.
  30. Zhao Q., W. Ren, Z. Zhang, A thermodynamically consistent model and its conservative numerical approach for moving contact lines with soluble surfactants, *Computer Methods and Applied Mechanics and Engineering* 385 (2021) 114033.
- 97 **K. Danov, R. Danev, K. Nagayama, Reconstruction of the electric charge density in thin films from the contrast transfer function measurements, *Ultramicroscopy* 90 (2002) 85–95. (брой: 18)**
1. Van Aken R.H., C.W. Hagen, J.E. Barth, Low-energy foil aberration corrector, *Ultramicroscopy* 93(3–4) (2002) 321–330.
  2. Van Aken R.H., Low energy electron beams through ultra-thin foils, applications for electron microscopy, PhD Thesis, Applied Science, TU Delf, The Netherlands, 2005.

3. Kruit P., R.H. van Aken, Device with foil corrector for electron optical aberrations at low energy, Patent WO/2004/021391, PCT/NL2003/000612.
4. Wang W.-J., The fabrication of Zernike electrostatic phase plate and its application on the phase TEM, PhD Thesis, National Tsing Hua University, Taiwan, 2007.
5. Alloyeau D., W.K. Hsieh, E.H. Anderson, L. Hilken, G. Brenner, X. Meng, F.R. Chen, C. Kisielowski, Imaging of soft and hard materials using a Boersch phase plate in a transmission electron microscope, *Ultramicroscopy* 110(5) (2010) 563–570.
6. Azaiez M., B. Belgacem, F. Jelassi, The density function reconstruction of surface sources from a single Cauchy measurement, *Computers and Fluids* 43(1) (2011) 14–22.
7. Malac M., M. Beleggia, M. Kawasaki, P. Li, R.F. Egerton, Convenient contrast enhancement by a hole-free phase plate, *Ultramicroscopy* 118 (2012) 77–89.
8. Malac M., M. Bergen, M. Kawasaki, M. Beleggia, R. Egerton, H. Furukawa, M. Shimizu, Practical hole-free phase plate imaging: Principals, advantages, and pitfalls, *Microscopy and Microanalysis* 18 (2012) 484–485.
9. Hart J.L., S. Liu, A.C. Lang, A. Hubert, A. Zukauskas, C. Canalias, R. Beanland, A.M. Rappe, M. Arredondo, M.L. Taheri, Electron-beam-induced ferroelectric domain behavior in the transmission electron microscope: Toward deterministic domain patterning, *Physical Review B* 94 (2016) 174104.
10. Tsai C.-Y., Y.-C. Chang, I. Lobato, D. Van Dyck, F.-R. Chen, Hollow cone electron imaging for single particle 3D reconstruction of proteins, *Scientific Reports* 6 (2016) 27701.
11. Malac M., S. Hettler, M. Hayashida, M. Kawasaki, Y. Konyuba, Y. Okura, H. Iijima, I. Ishikawa, M. Beleggia, Computer simulations analysis for determining the polarity of charge generated by high energy electron irradiation of a thin film, *Micron* 100 (2017) 10–22.
12. Shiloh R., R. Remez, P.-H. Lu, Jin L., Y. Lereah, A.H. Tavabi, R.E. Tunin-Borkowski, A. Arie, Spherical aberration correction in a scanning transmission electron microscope using a sculpted thin film, *Ultramicroscopy* 189 (2018) 46–53.
13. Malac M., S. Hettler, M. Hayashida, R.F. Egerton, M. Beleggia, Phase plate in the transmission electron microscopy: Operating principles and applications, *Microscopy* 70 (2021) 75–115.
14. Bultema L.A., R. Bucker, E.C. Schulz, F. Tellkamp, J. Gonchior, R.J. Dwayne Miller, G.H. Kassier, The effect of secondary electrons on radiolysis as observed by in liquid TEM: The role of window material and electrical bias, *Ultramicroscopy* 240 (2022) 113579.
15. Hawkes P., E. Kasper, Principles of Electron Optics, Vol. 3. Fundamental Wave Optics, 2022.
16. Obermair M., S. Hettler, M. Dries, M. Hugenschmidt, R. Spiecker, D. Gerthsen, Carbon-film-based Zernike phase plates with smooth thickness gradient for phase-contrast transmission electron microscopy with reduced fringing artefacts, *Journal of Microscopy* 287 (2022) 45–58.
17. Zheng F., M. Beleggia, V. Migunov, G. Pozzi, R.E. Dunin-Borkowski, Electron-beam-induced charging of an Al<sub>2</sub>O<sub>3</sub> nanotip studied using off-axis electron holography, *Ultramicroscopy* 241 (2022) 113593.
18. Schaap W.J., A pulsed laser phase plate for transmission electron microscopy, PhD Thesis, Eindhoven University of Technology, 2023.

**96 D.S. Valkovska, K.D. Danov, I.B. Ivanov, Stability of draining plane-parallel films containing surfactants, Adv. Colloid Interface Sci. 96 (2002) 101–129. (брой: 84)**

1. Coons J.E., P.J. Halley, S.A. McGlashan, A review of drainage and spontaneous rupture in free standing thin films with tangentially immobile interfaces, *Adv. Colloid Interface Sci.* 105(1–3) (2003) 3–62.
2. Neethling S.J., J.J. Cilliers, Modeling flotation froths, *Int. J. Miner. Processes* 72(1–4) (2003) 267–287.
3. Arditty S., Fabrication, stabilité et propriétés rhéologiques des émulsions stabilisées par des particules colloïdales, PhD Thesis, Université Sciences et Technologies–Bordeaux I, 2004.
4. Leal L.G., Flow induced coalescence of drops in a viscous fluid, *Phys. Fluids* 16(6) (2004) 1833–1851.
5. Mileva E., B. Radoev, Hydrodynamic interactions and stability of emulsion films, in: D.N. Petsev (Ed.), *Emulsions: Structure, Stability and Interactions*, Elsevier, London, 2004, p. 215.
6. Neumann B., B. Vincent, R. Krustev, H.–J. Müller, Stability of various silicone oil/water emulsion films as a function of surfactant and salt concentration, *Langmuir* 20(11) (2004) 4336–4334.
7. Manev E.D., A.V. Nguyen, Critical thickness of microscopic thin liquid films, *Adv. Colloid Interface Sci.* 114–115 (2005) 133–146.
8. Manev E.D., J.K. Angarska, Critical thickness of thin liquid films: comparison of theory and experiment, *Colloids Surfaces A* 263(1–3) (2005) 250–257.
9. Narsimhan G., Z.B. Wang, Stability of thin stagnant film on a solid surface with a viscoelastic air–liquid interface, *J. Colloid Interface Sci.* 291(1) (2005) 296–302.
10. Ravera F., M. Ferrari, E. Santini, L. Liggieri, Influence of surface processes on the dilational visco-elasticity of surfactant solutions, *Adv. Colloid Interface Sci.* 117(1–3) (2005) 75–100.

11. Bremond N., M. Arora, S.M. Dammer, D. Lohse, Interaction of cavitation bubbles on a wall, *Phys. Fluids* 18(12) (2006) 121505.
12. Gramlich C., G.M. Homsy, Linear stability of an expanding spherical liquid film, *Colloids Surfaces A* 282–283 (2006) 11–23.
13. Grassia P., S.J. Neethling, C. Cervantes, H.T. Lee, The growth, drainage and bursting of foams, *Colloids Surfaces A* 274(1–3) (2006) 110–124.
14. Jang S.S., W.A. Goddard III, Structures and properties of newton black films characterized using molecular dynamics simulations, *J. Phys. Chem. B* 110(15) (2006) 7992–8001.
15. Kralchevsky P.A., N.D. Denkov, Ivan B. Ivanov: remarkable figure in colloid science, *Colloids Surfaces A* 282–283 (2006) 1–7.
16. Narsimhan G., Z. Wang, Rupture of equilibrium foam films due to random thermal and mechanical perturbations, *Colloids Surfaces A* 282–283 (2006) 24–36.
17. Narsimhan G., Z.B. Wang, Effect of interfacial mobility on rupture of thin stagnant films on a solid surface due to random mechanical perturbations, *J. Colloid Interface Sci.* 298(1) (2006) 491–496.
18. Wang L., R.–H. Yoon, Role of hydrophobic force in the thinning of foam films containing a nonionic surfactant, *Colloids Surfaces A* 282–283 (2006) 84–91.
19. Wang L., Surface Forces in Foam Films, PhD Thesis, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA, 2006.
20. Anton N., P. Bouriart, Different surface corrugations occurring during drainage of axisymmetric thin liquid films, *Langmuir* 23(18) (2007) 9213–9220.
21. Arditty S., Fabrication, stability and rheological properties of solid–stabilized emulsions, PhD Thesis, University of Science, Bordeaux, 2007.
22. Baldessari F., G.M. Homsy, L.G. Leal, Linear stability of a draining film squeezed between two approaching droplets, *J. Colloid Interface Sci.* 307(1) (2007) 188–202.
23. Hannisdal A., R. Orr, J. Sjoblom, Viscoelastic properties of crude oil components at oil–water interfaces. 2: Comparison of 30 oils, *J. Dispersion Sci. Technology* 28(3) (2007) 361–369.
24. Krasowska M., K. Malysa, Wetting films in attachment of the colliding bubble, *Adv. Colloid Interface Sci.* 134–135 (2007) 138–150.
25. Santini E., L. Liggieri, L. Sacca, D. Clausse, F. Ravera, Interfacial rheology of Span 80 adsorbed layers at paraffin oil–water interface and correlation with the corresponding emulsion properties, *Colloids Surfaces A* 309(1–3) (2007) 270–279.
26. Wang Z., G. Narishman, Rupture of draining foam films due to random pressure fluctuations, *Langmuir* 23(5) (2007) 2437–2443.
27. Golemanov K., N.D. Denkov, S. Tcholakova, M. Vethamuthu, A. Lips, Surfactant mixtures for control of bubble surface mobility in foam studies, *Langmuir* 24(18) (2008) 9956–9961.
28. Malysa K., K. Lunkenheimer, Foams under dynamic conditions, *Current Opinion in Colloid and Interface Science* 13(3) (2008) 150–162.
29. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
30. Simulesku V., J. Angarska, E. Manev, Drainage and critical thickness of foam films from aqueous solutions of mixed nonionic surfactants, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 319(1–3) (2008) 21–28.
31. Tcholakova S., N.D. Denkov, K. Golemanov, K.P. Ananthapadmanabhan, A. Lips, Theoretical model of viscous friction inside steadily sheared foams and concentrated emulsions, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 78(1) (2008) 011405.
32. Yoon R.–H., L. Wang, A response to the comment on "hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: Effect of electrolyte", *Langmuir* 24(9) (2008) 5194–5196.
33. Denkov N.D., S. Tcholakova, K. Golemanov, A. Lips, Jamming in Sheared Foams and Emulsions, Explained by Critical Instability of the Films between Neighboring Bubbles and Drops, *Physical Review Letters* 103(11) (2009) 118302.
34. Interfacial Rheology, R. Miller and L. Liggieri Eds., 2009, Ch. 5.
35. Karakashev S.I., V.A. Nguyen, Do liquid films rupture due to the so–called hydrophobic force or migration of dissolved gases? *Langmuir* 25(6) (2009) 3363–3368.
36. Kaur S., L.G. Leal, Three–dimensional stability of a thin film between two approaching drops, *Physics of Fluids* 21(7) (2009) 072101.
37. Kologianni E.P., E.M. Varka, T.D. Karapanstios, M. Kostoglou, E. Santini, L. Liggieri, F. Ravera, A multi–probe non–intrusive electrical technique for monitoring emulsification of hexane–in–water with the emulsifier C10E5 soluble in both phases, *Colloids Surfaces A* 354(1–3) (2010) 353–363.



38. Nguyen P.T., A.V. Nguyen, Drainage, rupture, and lifetime of deionized water films: Effect of dissolved gases? *Langmuir* 26(5) (2010) 3356–3363.
39. Ravera F., G. Loglio, V.I. Kovalchuk, Interfacial dilational rheology by oscillating bubble/drop methods, *Current Opinion in Colloid and Interface Science* 15(4) (2010) 217–228.
40. Thiam A.R., Emulsions adhesives et non adhesives, PhD Thesis, University Paris VI, 2010.
41. Tsekov R., D.S. Ivanova, R. Slavchov, B. Radoev, E.D. Manev, A.V. Nguyen, S.I. Karakashev, Streaming potential effect on the drainage of thin liquid films stabilized by ionic surfactants, *Langmuir* 26(7) (2010) 4703–4708.
42. Tzekov R., D. Ivanova, R. Slavchov, B. Radoev, E. Manev, A.V. Nguyen, S.I. Karakashev, A new model for kinetics of a drainage of thin liquid films with ionic surfactants, *Годишник на Шуменския Университет*, 2010.
43. Ангарска Ж., Д. Иванова, К. Щубенраух, Гибсова еластичност и адсорбционни слоеве от смесени разтвори на п-додецил- $\beta$ -D-малтозид с додеканол, *Годишник на Шуменския Университет*, 2010.
44. Chan D.Y.C., E. Klaseboer, R. Manica, Film drainage and coalescence between deformable drops and bubbles, *Soft Matter* 7(6) (2011) 2235–2264.
45. Gambaryan-Roisman T., Dynamics of free liquid films during formation of polymer foams, *Colloids and Surfaces A* 382(1-3) (2011) 113–117.
46. Ivanova D.S., Z. Angarska, S.I. Karakashev, E.D. Manev, Drainage of foam films stabilized by n-dodecyl- $\beta$ -D-maltoside or dodecyl trimethylammonium bromide and their mixtures, *Colloid and Surfaces A* 382(1–3) (2011) 93–101.
47. Liggieri L., M. Ferrari, F. Ravera, Recent developments in dilatational viscoelasticity of surfactant layers, *Colloid Stability: The Role of Surface Forces, Part II*, 2 (2011) 313–344.
48. Pan L., S. Jung, R.-H. Yoon, Effect of hydrophobicity on the stability of the wetting films of water formed on gold surfaces, *J. Colloid Interface Scie.* 361(1) (2011) 321–330.
49. Samanta S., P. Ghosh, Coalescence of air bubbles in aqueous solutions of alcohols and nonionic surfactants, *Chemical Engineering Science* 66(20) (2011) 4824–4837.
50. Yoon R.-H., L. Wang, Hydrophobic forces in foam films, in: *Colloid Stability: The Role of Surface Forces*, 2011, Ch. 7.
51. Han F., P. Wang, J. Song, Y. Zhou, B. Xu, A surface rheological study of a glucosamide-based trisiloxane gemini surfactant at the air/water interface, *Journal of Dispersion Science and Technology* 33(12) (2012) 1708–1714.
52. Han F., Y. Chen, Y. Zhou, B. Xu, A surface rheological study of silwet L-77 surfactant at the air-water interface, *J. Dispersion Science and Technology* 33(3) (2012) 396–402.
53. Pan L., R.-H. Yoon, S. Jung, Kinetics of thinning of wetting films formed on gold surfaces treated with potassium amyl xanthate, *Separation Technologies for Minerals, Coal, and Earth Resources, International Symposium* (2012) 57–64.
54. Wang L., Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants, *Int. Journal of Mineral Processing* 102–103 (2012) 58–68.
55. Wang L., Inter-bubble attractions in aqueous solutions of flotation frothers, *Separation Technologies for Minerals, Coal, and Earth Resources, International Symposium* (2012) 35–45.
56. Gerasimova A., J.K. Angarska, K.D. Tachev, G.P. Yampolskaya, Drainage and critical thickness of foam films from mixed solutions of bovine serum albumin and n-dodecyl- $\beta$ -D-maltose, *Colloid Surfaces A* 438 (2013) 4–12.
57. Ivanova D.S., J.K. Angarska, Drainage and critical thickness of foam films stabilized by n-dodecyl- $\beta$ -D-maltose, *Colloid Surfaces A* 438 (2013) 93–103.
58. Sett S., S. Sinha-Ray, A.L. Yarin, Gravitational drainage of foam films, *Langmuir* 29(16) (2013) 4934–4947.
59. Vitasari D., P. Grassia, P. Martin, Surfactant transport onto a foam lamella, *Chemical Engineering Science* 102 (2013) 405–423.
60. Manica R., M.H.V. Hendrix, R. Gupta, E. Klaseboer, C.-D. Ohl, D.Y.C. Chan, Modelling bubble rise and interaction with a glass surface, *Applied Mathematical Modelling* 38(17–18) (2014) 4249–4261.
61. Rio E., A.-L. Biance, Thermodynamic and mechanical timescales involved in foam film rupture and liquid foam coalescence, *ChemPhysChem* 15(17) (2014) 3692–3707.
62. Shahalami S., Study of non-equilibrium interactions between an air bubble and a hydrophilic/hydrophobic solid surface with the non-linearized Stokes-Reynolds-Young-Laplace model (NSRYL model), PhD Thesis, University of Alberta, 2014.
63. Vitasari D., P. Grassia, P. Martin, Surfactant adsorption and transport onto a foam lamella in a foam fractionation column with reflux, *Proceedings of the First International Conference on Engineering Technology and Applications*, 2014.

64. Leman M., Microfluidique en gouttes a l'échelle femtolitrique, PhD Thesis, University Pier and Marie Coutie, Paris, 2015.
  65. Wang L., Modeling of bubble coalescence in saline water in the presence of flotation frothers, *International Journal of Mineral Processing* 134 (2015) 41–49.
  66. Chock B.P., T.B. Jones, D.R. Harding, Effect of a surfactant on the electric-field assembly of oil-water emulsions for making foam targets, *Fusion Science and Technology* 70(2) (2016) 206–218.
  67. Zawala J., D. Kosior, T. Dabros, K. Malysa, Influence of bubble surface mobility on collision kinetics and attachment to hydrophobic solids, *Colloids and Surfaces A* 505 (2016) 47–55.
  68. Wang L., Prediction of the critical rupture thickness of foam films formed from saline water in the presence of flotation frothers, *IMPC 2016*, 135047.
  69. Bournival G., S. Ata, G.J. Jameson, Bubble and froth stailizing agents in rfoth flotation, *Mineral Processing and Extractive Metallurgy Review* 38(6) (2017) 366–387.
  70. Jin Q., Z. Cai, X. Li, M.P. Yadav, H. Zhang, Comparative viscoelasticity studies: Corn fiber gum versus commercial polysaccharide emulsifier in bulk and at air/liquid interfaces, *Food Hydrocolloids* 64 (2017) 85–98.
  71. Yuan Y., X. Li, J. Tu, Effects of spontaneous nanoparticle adsorption on the bubble-liquid and bubble-bubble interactions in multi-dispersed bubbly systems – A review, *International Journal of Heat and Mass Transfer* 120 (2018) 552–567.
  72. Rivera J.L., J.F. Douglas, Influence of film thickness on the stability of free-standing Lenard-Jones fluid films, *Journal of Chemical Physics* 150(14) (2019) 144705.
  73. Chatzigiannakis E., J. Vermant, Breakup of thin liquid films: From stochastic to deterministic, *Physical Review Letters* 125 (2020) 158001.
  74. Chatzigiannakis E., P. Veenstra, D. Ten Bosch, J. Vermant, Mimicking coalescence using a pressure-controlled dynamic thin film balance, *Soft Matter* 16 (2020) 9410–9422.
  75. Zawala J., K. Malysa, P.B. Kowalczyk, On importance of external conditions and properties of the interacting phases in formation and stability of symmetrical and unsymmetrical liquid films, *Advances in Colloid and Interface Science* 276 (2020) 102085.
  76. Chatzigiannakis E., J. Vermant, Dynamic stabilization during the drainage of thin film polymer solutions, *Soft Matter* 17 (2021) 4790–4803.
  77. Chatzigiannakis E., Thin liquid films: Where hydrodynamics, capillary, interfacial stresses, and intermolecular forces meet, Ph.D. Thesis, ETH Zurich, 2021.
  78. Janssen F., A.G.B. Wouters, E. Chatzigiannakis, J.A. Delcour, J. Vermant, Thin film drainage dynamics of wheat and rye dough liquors and oat batter liquor, *Food Hydrocolloids* 116 (2021) 106624.
  79. Pan Y., Synergistic and antagonistic effects of frothers, collector and salt on the stability of bubbles under static and dynamic conditions, PhD Thesis, Phaculty of Engineering, School of Minerals and Energy Resources Emgineering, Australia, 2021.
  80. Li Y., C. Pan, On the rupture of bubble foam in subcooled flow boiling of seawater in a vertical annulus, *Journal of Heat and Mass Transfer* 194 (2022) 123061.
  81. Pan C., G. Bournival, S.I. Karakashev, B. Yang, L. Wang, S. Ata, Effect of electrolyte and flotation collector on foam films in the presence of frothers, *Chemical Engineering Science* 264 (2022) 118176.
  82. Liggieri L., M. Ferrari, F. Ravera, Recent developments in dilatational viscoelasticity of surfactant layers, *Colloids and Interface Science Series* 6 (2014) 313–344.
  83. Yoon R.-H., L. Wang, Hydrophobic forces in foam films, *Colloids and Interface Science Series* 6 (2014) 161–186.
  84. Machale J., S.K. Majumder, P. Ghosh, T.K. Sen, A. Saeedi, The role of adsorption of a natural surfactant at oil–water interface in enhanced oil recovery: interfacial rheology, and structural, and emulsifying analyses, *Chemical Engineering Communications* 210 (2023) 2189–2203.
- 95 K.D. Danov, B. Pouligny, P.A. Kralchevsky, Capillary forces between colloidal particles confined in a liquid film: the finite-meniscus problem, *Langmuir* 17 (2001) 6599–6609. (брой: 48)**
1. Bowden N.D., A.W. Terfort, K.D. Carbeck, G.M. Whitesides, Self-assemnly of mesoscale objects, US Patent and Trademark Office Granted Patent, January 2003.
  2. Foret L., A. Wurger, Electric-field induced capillary interaction of charged particles at a polar interface, *Phys. Rev. Lett.* 92(5) (2004) 0583021–0583024.
  3. Stancik E.J., G.G. Fuller, Connect the drops: using solids as adhesives for liquids, *Langmuir* 20(12) (2004) 4805–4808.
  4. Stancik E.J., M. Kouhkan, G.G. Fuller, Coalescence of particle-laden fluid interfaces, *Lagmuir* 20(1) (2004) 90–94.

5. Fiegel J., F. Jin, J. Hanes, K. Stebe, Wetting of a particle in a thin film, *J. Colloid Interface Sci.* 291(2) (2005) 507–514.
6. Hong S.-H., J.H. Moon, J.-M. Lim, S.-H. Kim, S.-M. Yang, Fabrication of spherical colloidal crystals using electrospray, *Langmuir* 21(23) (2005) 10416–10421.
7. Li T., R.B. Xing, W.H. Huang, Y.C. Han, A self-assembly approach to fabricate the patterned colloidal crystals with a tunable structure, *Colloids Surfaces A* 269(1–3) (2005) 22–27.
8. Camahan D.L., Apparatus and method for nanoscale pattern generation, US Patent and Trademark Office Granted Patent, March 2006.
9. Gracias D.H., J. Tien, G.M. Whitesides, Self-assembled electrical networks, US Patent and Trademark Office Granted Patent, March 2006.
10. Kaptay G., On the equation of the maximum capillary pressure induced by solid particles to stabilize emulsions and foams and on the emulsion stability diagrams, *Colloids Surfaces A* 282–283 (2006) 387–401.
11. Shinto H., D. Komiyama, K. Higashitani, Lateral capillary forces between solid bodies on liquid surface: a lattice Boltzmann study, *Langmuir* 22(5) (2006) 2058–2064.
12. Tcholakova S., N.D. Denkov, I.B. Ivanov, B. Campbell, Coalescence stability of emulsions containing globular milk proteins, *Adv. Colloid Interface Sci.* 123–126 (2006) 259–293.
13. Velikov K.P., O.D. Velev, Novel materials derived from particles assembled at liquid interfaces, in: B.P. Binks, T.S. Horozov (Eds.), *Colloidal Particles at Liquid Interfaces*, Cambridge University Press, Cambridge, UK, 2006, pp. 225–297.
14. Colloidal particles at liquid interfaces, Editorial, *PCCP* 9 (2007) 6298–6299.
15. Jarai-Szabo F., Z. Neda, S. Astilean, C. Farcau, A. Kuttesch, Shake-induced order in nanosphere systems, *Europ. Phys. J. E* 23(2) (2007) 153–159.
16. Shinto H., D. Komiyama, K. Higashitani, Lattice Boltzmann study of capillary forces between cylindrical particles, *Advanced Powder Technology* 18(6) (2007) 643–662.
17. Yu Y., M. Guo, X. Li, Q.-S. Zheng, Meniscus-climbing behavior and its minimum free-energy mechanism, *Langmuir* 23(21) (2007) 10546–10550.
18. Deng Y., C. Liu, J. Liu, F. Zhang, T. Yu, F. Zhang, D. Gu, D. Zhao, A novel approach to the construction of 3-D ordered macrostructures with polyhedral particles, *Journal of Materials Chemistry* 18(4) (2008) 408–415.
19. Helseth L.E., T.H. Johansen, T.M. Fischer, Manipulation of paramagnetic particles using a nanoscale asymmetric magnetic potential, *Applied Physics Letters* 93(4) (2008) 042516.
20. Hunter T.N., R.J. Pugh, G.V. Franks, G.J. Jameson, The role of particles in stabilising foams and emulsions, *Advances in Colloid and Interface Science* 137(2) (2008) 57–81.
21. Di Leonardo R., F. Ianni, F. Saglimbeni, G. Ruocco, S. Keen, J. Leach, M. Padgett, Optical trapping studies of colloidal interactions in liquid films, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 343(1–3) (2009) 133–136.
22. Kaptay G., G. Vermes, Interfacial forces: classification, in: *Encyclopedia of Surface and Colloid Science*, 2009.
23. Rivera T.P., Convective capillary force assembly of colloids: plasmonic applications, PhD Thesis, Grenoble University, 2009.
24. Schumann S., S.A.F. Bon, R.A. Hatton, T.S. Jones, Open-cellular organic semiconductor thin films by vertical co-deposition using sub-100 nm nanosphere templates, *Chemical Communications* 42 (2009) 6478–6480.
25. Camahan D.L., Apparatus and method for nanoscale pattern generation, US Patent and Trademark Office Granted Patent, July 2010.
26. Ge J., Y. Yin, Responsive photonic crystals, *Angewandte Chemie – International Edition* 50(7) (2011) 1492–1522.
27. Jia L., M.A. Ray, Method of transferring patterned non-densely packed interfacial particle films onto substrates, US Patent and Trademark Office Granted Patent, May 2011.
28. Kang W.-L., D.-Q. Gao, Y.-L. Liu, F.-W. Meng, H.-M. Fan, Progress of the research work with respect to solid particles – stabilized emulsions, *China Surfactant Detergent and Cosmetics* 41(4) (2011) 281–284.
29. Schuman S., Interface modification in organic and hybrid photovoltaics, PhD Thesis, University of Warwick, 2011.
30. Diao Y.Y., X.Y. Liu, Controlled colloidal assembly: experimental modeling of general crystallization and biomimicking of structural color, *Advanced Functional Materials* 22(7) (2012) 1354–1375.
31. Jiang S., S. Granick, Janus balance and emulsions stabilized by Janus particles, in: *Janus Particles Synthesis, Self-Assembly, and Applications*, RSC 2012, Ch. 11.

32. Kao J.C.T., A.E. Hosoi, Spinodal decomposition in particle-laden Landau-Levich flow, *Physics of Fluids* 24(4) (2012) Art. 041701.
  33. Liu X.Y., Y.Y. Diao, Modeling of biomineralization and structural color biomimetics by controlled collidal assembly, *Bioinspiration, Biological and Medical Physics, Biomedical Engineering*, 2012, Ch. 7.
  34. Pavan M.J., E. Ploshnik, R. Shenhar, Nanoparticle assembly on topographical polymer templates: effects of spine rate, nanoparticle size, ligand, and concentration, *Journal of Physical Chemistry B* 116(47) (2012) 13922–13931.
  35. Archer J., M. Kolwas, G. Derkachov, M. Woniak, D. Jakubczyk, K. Kolwas, Optical diagnostics of surfaces of single evaporating liquid microdroplet of solutions and suspensions, *Proceedings of SPIE* vol 9884 (2016) 988427.
  36. Stannarius R., K. Harth, Inclusions in freely suspended smetic films, in: *Liquid Crystals with Nano and Microparticles*, Vol. 1-2, 2016, 361–413.
  37. Fedorenko V., M. Bechelany, J.-M. Janot, V. Smyntyna, S. Balme, Large-scale protein/antibody patterning with limiting unspecific adsorption, *Journal of Nanoparticle Research* 19 (2017) 351.
  38. Lotito V., T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologists, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
  39. Shen Y., W.G. Borghard, M.S. Tamassone, Discrete element method simulations and experiments of dry catalyst impregnation for spherical and cylindrical particles in a double cone blender, *Powder Technology* 318 (2017) 23–32.
  40. Jiang J., J. Gao, H. Zhang, W. He, J. Zhang, D. Daniel, X. Yao, Directional pumping of water and oil microdroplets on slippery surface, *PNAS* 116(7) (2019) 2482–2487.
  41. Correia E.L., N. Brown, S. Razavi, Janus particles at fluid interfaces: Stability and interfacial rheology, *Nanomaterials* 11 (2021) 374.
  42. Gudavazde I., E.-L. Florin, Normal capillary forces on a spherical particle protruding from a thin liquid film and its application to swarming bacteria, *Colloids and Surfaces A* 636 (2022) 128176.
  43. Natalia I., R.H. Ewoldt, E. Koos, Particle contact dynamics as the origin for noninteger power expansion rheology in attractive suspension networks, *Journal of Rheology* 66 (2022) 17–30.
  44. Lee Y.K., Applications of lattice Boltzmann method combined with smoothed profile method for particulate flows: a brief review, *Korea Australia Rheology Journal* 35 (2023) 213–228.
  45. Stokes K., K. Clark, D. Odetade, M. Hardy, P. Goldberg Oppenheimer, Advances in lithographic techniques for precision nanostructure fabrication in biomedical applications, *Discover Nano* 18 (2023) 153.
  46. Verma G., G. Yadav, Y. Shi, L.-M. Zhou, C.-W. Qiu, W. Li, Tunable optofluidic curvature for micromanipulation, *Laser Photonic Rev.* 2023, 2300539.
  47. He X., Q. Lu, A review of high internal phase Pickering emulsions: Stabilization, rheology, and 3D printing application, *Advances in Colloid and Interface Science* 324 (2024) 103086.
  48. Schroder C., X. Wei, U. Fischer, G. Schmidt, O. Volkova, C.G. Aneziris, In Situ Observation of Collision Between Exogenous and Endogenous Inclusions on Steel Melts for Active Steel Filtration, *Multifunctional Ceramic Filter Systems for Metal Melt Filtration* (2024) 27–55.
- 94 K.D. Danov, B. Pouligny, M.I. Angelova, P.A. Kralchevsky, Strong capillary attraction between spherical inclusions in a multilayered lipid membrane, *Studies in Surface Science and Catalysis* 132 (2001) 519–524. (брой: 1)**
1. Jeridi H., M. Tasinkevich, T. Othman, C. Blanc, Colloidal particles in thin nematic films, *Langmuir* 32(35) (2016) 9097–9107.
- 93 P.A. Kralchevsky, N.D. Denkov, K.D. Danov, Particles with an undulated contact line at a fluid interface: interaction between capillary quadrupoles and rheology of particulate monolayers, *Langmuir* 17 (2001) 7694–7705. (брой: 130)**
1. Coletti B., S. Vantilt, B. Blanpain, Observation of calcium aluminate inclusions at interfaces between Ca-treated, Al-killed steels and slags, *Metall. Mater. Trans. B* 34(5) (2003) 533–538.
  2. Moncho-Jorda A., F. Martinez-Lopez, M.A. Cabrerizo-Vilchez, R. Hidalgo-Alvarez, in: E. Matijevic, M. Borkovec (Eds.), *Surface and Colloid Science*, Volume 17, Springer, New York, 2004.
  3. Stancik E.J., M. Kouhkan, G.G. Fuller, Coalescence of particle-laden fluid interfaces, *Langmuir* 20(1) (2004) 90–94.
  4. Horozov T.S., B.P. Binks, Particle behaviour at horizontal and vertical fluid interfaces, *Colloids Surfaces A* 267(1–3) (2005) 64–73.
  5. Horozov T.S., R. Aveyard, B.P. Binks, J.H. Clint, Structure and stability of silica particle monolayers at horizontal and vertical octane–water interfaces, *Langmuir* 21(16) (2005) 7405–7412.



6. Loudet J.C., A.M. Alsayed, J. Zhang, A.G. Yodh, Capillary interactions between anisotropic colloidal particles, *Phys. Rev. Lett.* 94(1) (2005) 1–4.
7. Van Nierop E.A., M.A. Stijnman, S. Hilgenfeldt, Shape-induced capillary interactions of colloidal particles, *Europhysics Letters* 72(4) (2005) 671–677.
8. Vassileva N.D., D. van den Ende, F. Mugele, J. Mellema, Capillary forces between spherical particles floating at a liquid–liquid interface, *Langmuir* 21(24) (2005) 11190–11200.
9. Binks B.P., T.S. Horozov, Colloidal particles at liquid interfaces: an introduction, in: B.P. Binks, T.S. Horozov (Eds.), *Colloidal Particles at Liquid Interfaces*, Cambridge University Press, Cambridge, UK, 2006, pp. 1–76.
10. Bordacs S., A. Agod, Z. Horvolgyi, Compression of Langmuir films composed of fine particles: collapse mechanism and wettability, *Langmuir* 22(16) (2006) 6944–6950.
11. Fernández–Toledano J.C., A. Moncho–Jordá, F. Martínez–López, R. Hidalgo–Álvarez, R., Theory for interactions between particles in monolayers, in: B.P. Binks, T.S. Horozov (Eds.), *Colloidal Particles at Liquid Interfaces*, Cambridge University Press, Cambridge, UK, 2006, pp. 108–151.
12. Horozov T.S., B.P. Binks, R. Aveyard, J.H. Clint, Effect of particle hydrophobicity on the formation and collapse of fumed silica particle monolayers at the oil–water interface, *Colloids Surfaces A* 282–283 (2006) 377–386.
13. Vassileva N.D., Behavior of Two–Dimensional Aggregates in Shear Flow, PhD Thesis, Group of Complex Fluids, University of Twente, The Netherlands, August 2006.
14. Zeng C., H. Bissig, A.D. Dinsmore, Particles on droplets: from fundamental physics to novel materials, *Solid State Communications* 139(11–12) (2006) 547–556.
15. Drago C., R. Lipscomb, T. Quach, K. Staley, Self-assembly of uncooked noodles, 2007.
16. Forny L., I. Pezron, K. Saleh, P. Guigon, L. Komunjer, Storing water in powder form by self-assembling hydrophobic silica nanoparticles, *Powder Technology* 171(1) (2007) 15–24.
17. Klechkovskaya V.V., L.G. Yanosova, G.I. Ivakin, Arkharova N.A., Gaynutdinov R.V., Stepina N.D., Orekhov A.S., Volkov V.V., Study of the process of PbS nanocrystal formation in lead stearate and behenate Langmuir–Blodgett films by electron diffraction and x-ray reflectometry, *Journal of Surface Investigation* 1(3) (2007) 312–317.
18. Safouane M., D. Langevin, B.P. Binks, Effect of particle hydrophobicity on the properties of silica particle layers at the air–water interface, *Langmuir* 23(23) (2007) 11546–11553.
19. Aubry N., P. Singh, Electrostatic forces on particles floating within the interface between two immiscible fluids, *ASME International Mechanical Engineering Congress and Exposition, Proceedings* 8B (2008) 1969–1976.
20. Dominigues A., M. Ottel, S. Dietrich, Force balance of particles trapped at fluid interfaces, *Journal of Chemical Physics* 128 (11) (2008) 114904.
21. Gao B., T.S. Steenhuis, Y. Zevi, V.L. Morales, J.L. Nieber, B.K. Richards, J.F. McCarthy, J. –Y. Parlange, Capillary retention of colloids in unsaturated porous media, *Water Resources Research* 44(4) (2008) W04504.
22. Hunter T.N., R.J. Pugh, G.V. Franks, G.J. Jameson, The role of particles in stabilising foams and emulsions, *Advances in Colloid and Interface Science* 137(2) (2008) 57–81.
23. Lewandowski E.P., Direct assembly of complex shaped particles at fluid interfaces, PhD Thesis, John Hopkins University, Baltimore, 2008.
24. Lewandowski E.P., J.A. Bernate, P.C. Searson, K.J. Stebe, Rotation and alignment of anisotropic particles on nonplanar interfaces, *Langmuir* 24(17) (2008) 9302–9307.
25. Thareja P., S. Valenkar, Rheology of immiscible blends with particle-induced drop clusters, *Rheologica Acta* 47(2) (2008) 189–200.
26. Thareja P., Study of particles at fluid–fluid interfaces, PhD Thesis, Swanson School of Engineering, University of Pittsburgh, 2008.
27. Toledano J.C.F., Interactions, structure and kinetic properties of colloidal monolayers, PhD Thesis, Department of Applied Physics, Granada University, Spain, 2008.
28. Xu T., M. Jin, Z. Xie, Z. Jiang, Q. Kuang, H. Wu., R. Huang, L. Zheng, Tension of liquid interfaces: A general filter for the separation of micro-/nanoparticles, *Langmuir* 24(6) (2008) 2281–2283.
29. Cheng H.-L., Spreading and jamming phenomena of particle-laden interfaces, PhD Thesis, School of Engineering, University of Pittsburgh, USA, 2009.
30. Kurella A.K., A.N. Samant, N.B. Dahotre, Laser surface multilevel self-assembly of CaP–TiO<sub>2</sub> particles, *J. Applied Physics* 105(1) (2009) Pap. No. 014913.
31. Kurella A.K., Laser induced hierarchical coating, PhD Thesis, University of Tennessee, 2009.
32. Lewandowski E.P., J.A. Bernate, A. Tseng, P.C. Searson, K.J. Stebe, Oriented assembly of anisotropic particles by capillary interactions, *Soft Matter* 5(4) (2009) 886–890.

33. Ma H., L.L. Dai, Structure of multi-component colloidal lattices at oil-water interfaces, *Langmuir* 25(19) (2009) 11210–11215.
34. Zevi Y., Dathe A., B. Gao, W. Zhang, B.K. Richards, T.S. Steenhuis, Transport and retention of colloidal particles in partially saturated porous media: Effect of ionic strength, *Water Resources Research* 45(12) (2009) W12403.
35. Lewandowski E.P., M. Cavallaro, L. Botto, J.C. Bernate, V. Garbin, K.J. Stebe, Orientation and Self-Assembly of Cylindrical Particles by Anisotropic Capillary Interactions, *Langmuir* 26(19) (2010) 15142–15154.
36. Ma H., B. Perea, L.L. Dai, Study of two-component colloidal particles at air/water interfaces using Langmuir–Blodgett techniques, *Colloid Surfaces A Physical and Engineering Aspects* 372(1–3) (2010) 61–65.
37. Ma H., L.L. Dai, Structure of multi-component colloidal lattices at oil-water interfaces, 2010 AIChE Annual Meeting, 10AIChE; Salt Lake City, UT; 7 November 2010 through 12 November 2010; Code 83459.
38. Perea B., H. Mai, L.L. Dai, Study of two-component colloidal particles at air/water interfaces using Langmuir–Blodgett techniques, 2010 AIChE Annual Meeting, 10AIChE; Salt Lake City, UT; 7 November 2010 through 12 November 2010; Code 83459.
39. Tran D.N.H., C.P. Whitby, D. Fornasiero, J. Ralston, Selective separation of very fine particles at a planar air–water interface, *Int. Journal of Mineral Processing* 94(1–2) (2010) 35–42.
40. Xu H., J. Kirkwood, M. Lask, G. Fuller, Charge interaction between particle-laden fluid interfaces, *Langmuir* 26(5) (2010) 3160–3164.
41. Brugarolas T., B.J. Park, M.H. Lee, D., Lee, Generation of amphiphilic Janus bubbles and their behavior at an air-water interface, *Advanced Functional Materials* 21(20) (2011) 3924–3931.
42. Gharby M.A., Comportement de colloïdes pièges aux interfaces de nematiques, PhD Thesis, Soft Condensed Matter. Université Montpellier II - Sciences et Techniques du Languedoc, 2011.
43. Janjua M., S. Nudurupati, P. Singh, N. Aubry, Electric field-induced self-assembly of micro- and nanoparticles of various shapes at two-fluid interfaces, *Electrophoresis* 32(5) (2011) 518–526.
44. Law A.D., T.S. Horozov, D.M.A. Buzza, The structure and melting transition of two dimensional alloys, *Soft Matter* 7(19) (2011) 8923–8931.
45. Loudet J.C., B. Pouligny, How do mosquito eggs self-assemble on the water surface? *European Physical Journal E* 34(8) (2011) Art. No. 76.
46. Ma H., L.L. Dai, Particle laden emulsions, in: *Encyclopedia of Surface and colloid Science*, 2011.
47. Zeng C., Capillary interactions among microparticles and nanoparticles at fluid interfaces, PhD Thesis, University of Massachusetts, 2011.
48. Botto L., L. Yao, R.L. Leheny, K.J. Stebe, Capillary bond between rod-like particles and the micromechanics of particle-laden interfaces, *Soft Matter* 8(18) (2012) 4971–4979.
49. Botto L., E.P. Lewandowski, M. Cavallaro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
50. McBride S.P., Surface Science Experiments Involving the Atomic Force Microscope, PhD Thesis, Kansas State University, 2012.
51. Varshney A., A. Sane, S. Ghosh, S. Bhattacharya, Amorphous to amorphous transition in particle rafts, *Physical Review E* 86(3) (2012) 031402.
52. Abkarian M., S. Protiere, J.M. Aristoff, H.A. Stone, Gravity-induced encapsulation of liquids by destabilization of granular rafts, *Nature Communications* 4 (2013) 1895.
53. Chatterjee N., Capillary forces on sediment particles, PhD Thesis, Washington State University, 2013.
54. Chatterjee N., M. Flury, Effect of particle shape on capillary forces acting on particles at the air-water interface, *Langmuir* 29(25) (2013) 7903–7911.
55. Kumar A., B.J. Park, F. Tu, D. Lee, Amphiphilic Janus particles at fluid interfaces, *Soft Matter* 9(29) (2013) 6604–6617.
56. Mihiretie B., Mechanical effect of light on anisotropic micron-sized particles and their wetting dynamics at the water-air interface, PhD Thesis, Bordeaux University, 2013.
57. Pureskiy N., Design of self-repaired superhydrophobic and switchable surfaces using colloidal particles, PhD Thesis, Technical University, Dresden, 2013.
58. Thiruvengadathan R., V. Korampalli, A. Ghosh, N. Chanda, K. Gangopadhyay, S. Gangopadhyay, Nanomaterial processing using self-assembly-bottom-up chemical and biological approaches, *Reports on Progress in Physics* 76(6) (2013) 066501.
59. Tu F., B.J. Park, D. Lee, Thermodynamically stable emulsions using Janus dumbbells as colloid surfactants, *Langmuir* 29(41) (2013) 12679–12687.

60. Van Hooghten R., L. Imperiali, V. Boeckx, R. Sharma, J. Vermant, Rough nanoparticles at the air-water interfaces: their structure, rheology and applications, *Soft Matter* 9(45) (2013) 10791–10798.
61. Zang D., Z. Chen, Y. Zhang, K. Lin, X. Geng, B.P. Binks, Effect of particle hydrophobicity on the properties of liquid water marbels, *Soft Matter* 9(20) (2013) 5067–5073.
62. Brufau T.B., Nanoparticle-shelled bubbles for lightweight materials, PhD Thesis, Pensilvania University, 2014.
63. Bykov A.G., B.A. Noskov, G. Loglio, V.V. Lyadinskaya, R. Miller, dilatational surface elasticity of spread monolayers of polystyrene microparticles, *Soft Matter* 10 (2014) 6499–6505.
64. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, *Langmuir* 31(49) (2015) 13290–13302.
65. Davies G.B., L. Botto, Dipolar capillary interaction between tilted ellipsoidal particles adsorbed at fluid-fluid interfaces, *Soft Matter* 11(40) (2015) 7969–7976.
66. Deshmukh O., D. van den Ende, M.C. Stuart, F. Mugele, M.H.G. Duits, Hard and soft colloids at fluid interfaces: Adsorption, interactions, assembly, and rheology, *Advances in Colloid and Interface Science* 222 (2015) 215–227.
67. Sun X., Y. Chen, N. Wu, C.S. Kang, H.A. Song, S. Jin, Y. Fu, H. Bryant, J.A. Frank, H.-S. Chong, Application of aziridinium ring opening for preparation of optically active diamine and triamine analogues: highly efficient synthesis and evaluation of DTPA-based MRI contrast enhancement agents, *RSC Advances* 5 (2015) 94571–94581.
68. Syngouna V.I., C.V. Chrysikopoulou, Experimental investigation of virus and clay particles cotransport in partially saturated columns packed with gas beads, *J. Colloid Interface Sci.* 440 (2015) 140–150.
69. Tu F., Emulsion stabilization with Janus particles, PhD Thesis, Pensilvania University, 2015.
70. Barman S., G.F. Christopher, Role of capillarity and microstructure on the interfacial viscoelasticity of particle laden interfaces, *Journal of Rheology* 60(1) (2016) 35–45.
71. Blanko E., S.K. Smoukov, O.D. Velez, K.P. Velikov, Organic-inorganic patchy particles as a versatile platform for fluid-in-fluid dispersion stabilization, *Faraday Discussions* 191 (2016) 73–88.
72. Chen Min, The role of casein micelles and their aggregates in foam stabilization, PhD Thesis, Wageningen University, 2016.
73. Ghosh S.K., A.G. Cherstvy, E.P. Petrov, P. Metzler, Interactions of rod-like particles on responsive elastic sheet, *Soft Matter* 12(38) (2016) 7908–7919.
74. Hausmann R., Effective field theory of particle interactions mediated by fluid surfaces, PhD Thesis, Carnegie Mellon University, 2016.
75. Kozina A., S. Ramos, P. Diaz-Leyva, R. Castillo, Out-of-equilibrium assembly of colloidal particles at air/water interface tuned by their chemical modification, *Journal of Physical Chemistry C* 120(30) (2016) 16879–16886.
76. Kwok M.-H., T. Ngai, Responsive particle stabilized emulsions: Formation and applications, *RSC Smart Materials* 20 (2016) 91–138.
77. Sun X., Y. Chen, J. Zhao, Highly stable aqueous foams generated by fumed silica particles hydrophobised in situ with a quaternary ammonium gemini surfactant, *RSC Advances* 6(45) (2016) 38913–38918.
78. Wang A., R. McGorty, D.M. Kaz, V.N. Manoharan, Contact-line pinning controls how quickly colloidal particles equilibrate with liquid interfaces, *Soft Matter* 12(43) (2016) 89588967.
79. Wang A., Out-of-equilibrium dynamics of colloidal particles at interfaces, PhD Thesis, Harvard University, 2016.
80. Zanini N., L. Isa, Particle contact angles at fluid interfaces: Pushing the boundary beyond hard uniform spherical colloids, *Journal of Physics Condensed Matter* 28(31) (2016) 313002.
81. Bormashenko E.Y., Physics of wetting: Phenomena and applications of fluids on surfaces, 2017.
82. Huang S., K. Gawlitza, R. Von Klitzing, W. Steffen, G.K. Aurenhammer, Structure and rheology of microgel monolayers at the water/oil interface, *Macromolecules* 50(9) (2017) 3680–3689.
83. Jeridi H., Comportements colloïdaux dans des films minces de cristaux liquides, PhD Thesis, université de Tunis El Manar, France, 2017.
84. Kang D.W., M. Lee, K.H. Kim, M. Xia, S.H. Im, B.J. Park, Electrostatic interactions between particles through heterogeneous fluid phases, *Soft Matter* 13 (2017) 6647–6658.
85. Longbottom B.W., B. Somuncuoglu, J.J. Punter, S. Longbottom, S.A.F. Bon, Roughening up polymer microspheres and their diffusion in a liquid, *Soft Matter* 13 (2017) 4285–4293.
86. Lotito V., T. Zambelli, Approaches to self-assembly of colloidal monolayers: A guide for nanotechnologies, *Advances in Colloid and Interface Science* 246 (2017) 217–274.
87. Luo A.M., Rheology and thermodynamics of particle-stabilized fluid interfaces, PhD Thesis, Eth Zurich, 2017.

88. Wang A., W.B. Rogers, V.N. Manoharan, Effects of contact line pinning on the adsorption of nonspherical colloids at liquid interfaces, *Physical Review Letters* 119 (2017) 108004.
89. Zanini N., C. Marshelke, S. Anachkov, E. Marini, A. Synytska, L. Isa, Universal emulsion stabilization from the arrested adsorption of rough particles at liquid-liquid interfaces, *Nature Communications* 8 (2017) 15701.
90. Zanini N., C.-P. Hsu, T. Magrini, E. Marini, L. Isa, Fabrication of rough colloids by heteroaggregation, *Colloids and Surfaces A* 532 (2017) 116–124.
91. Chen M., G. Sala, H.J.F. van Valenberg, A.C.M. van Hooijdonk, E. van der Linden, M.B.J. Meinders, Foam and thin films of hydrophilic silica particles modified by  $\beta$ -casein, *Journal of Colloid and Interface Science* 513 (2018) 357–366.
92. He W., Measured capillary forces on spheres at liquid interfaces and the mechanisms of particulate assemblies, PhD Thesis, University of Massachusetts, 2018.
93. Lee T.J., C.F. Lewallen, D.J. Bumbarger, P.J. Yunker, R.C. Reid, C.R. Forest, Transport and trapping of nanosheets via hydrodynamic forces and curvature-induced capillary quadrupolar interactions, *Journal of Colloid and Interface Science* 531 (2018) 352–359.
94. Planchette C., E. Lorenceau, A.-L. Biance, Rupture of granular rafts: Effects of particle mobility and polydispersity, *Soft Matter* 14(31) (2018) 6419–6430.
95. Yang X., A. Mayer, G. Bournival, R. Pugh, S. Ata, Experimental technique to study the interaction between a bubble and particle-laden interface, *Frontiers in Chemistry* 6 (2018) 348.
96. Zanini N., I. Lesov, E. Marini, C.-P. Hsu, C. Marshcelke, A. Synytska, S.E. Anachkov, L. Isa, Detachment of rough colloids from liquid-liquid interfaces, *Langmuir* 34(16) (2018) 4861–4873.
97. Forth J., P.Y. Kim, G. Xie, X. Liu, B.A. Helms, T.P. Russell, Building reconfigurable devices using complex liquid-fluid interfaces, *Advances Materials* 31 (2019) 1806370.
98. Jia Y., R. Huang, Y. Lan, Y. Ren, H. Jiang, D. Lee, Reversible aggregation and dispersion of particles at a liquid-liquid interface using space charge injection, *Advanced Materials Interfaces* 6 (2019) 1801920.
99. Laal-Dehghani N., G.F. Christopher, 2D stokesian simulation of particle aggregation at quiescent air/oil-water interfaces, *Journal of Colloid and Interface Science* 553 (2019) 259–268.
100. Rahman S.E., N. Laal-Dehghani, S. Barman, G.F. Christopher, Modifying interfacial interparticle forces to alter microstructure and viscoelasticity of densely packed particle laden interfaces, *Journal of Colloid and Interface Science* 536 (2019) 30–41.
101. Ji X., X. Wang, Y. Zhang, D. Zang, Interfacial viscoelasticity and jamming of colloidal particles at fluid-fluid interfaces: A review, *Reports on Progress in Physics* 82 (2020) 126601.
102. Lee H.E., K.H. Choi, X. Ming, D.W. Kang, B.J. Park, Interactions between polystyrene particles with diameters of several tens to hundreds of micrometers at the oil-water interface, *Journal of Colloid and Interface Science* 560 (2020) 838–848.
103. Barakat J.M., T.M. Squires, Capillary force on an 'inert' colloid: A physical analogy to dielectrophoresis, *Soft Matter* 17 (2021) 3417–3442.
104. Das S., J. Koplik, P. Somasundaran, C. Maldarelli, Pairwise hydrodynamic interactions of spherical colloids at a gas-liquid interface, *Journal of Fluid Mechanics* 915 (2021) A99.
105. Guzman E., Abelenda-Nunez I., Maestro A., Ortega F., Santamaria A., Rubio R.G., Particle-laden fluid-fluid interfaces: Physico-chemical foundation, *Journal of Physics Condensed Matter* 33 (2021) 333001.
106. Lagarde A., C. Josserand, S. Protiere, Transient aggregation of particles at interfaces, *Physical Review Fluids* 6 (2021) 084307.
107. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
108. Bouthier L.-V., R. Castellani, E. Hachem, R. Valette, Proposition of extension of models relating rheological quantities and microscopic structure through the use of a double fractal structure, *Physics of Fluids* 34 (2022) 083105.
109. Ching H., A. Mohraz, Bijel reology reveals a 2D colloidal glass wrapped in 3D, *Soft Matter* 18 (2022) 4227–4238.
110. Dani A., Y. Mohsen, C. Maldareli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
111. Du Y., S.A. Bradford, C. Shen, T. Li, X. Bi, D. Liu, Y. Huang, Novel analytical expressions for determining van der Waals interaction between a particle and air-water interface: Unexpected stronger van der Waals force than capillary force, *Journal of Colloid and Interface Science* 610 (2022) 982–993.



112. Guzman E., F. Martinez-Pedrero, C. Calero, A. Maestro, F. Ortega, R.G. Rubio, A broad perspective to particle-laden fluid interfaces systems: From chemically homogeneous particles to active colloids, *Advances in Colloid and Interface Science* 302 (2022) 102620.
  113. Guzman E., F. Ortega, R.G. Rubio, Forces controlling the assembly of particles at fluid interfaces, *Langmuir* 38 (2022) 13313–13321.
  114. Laal-Dehghaani N., G.F. Cristopher, Effects of interfacial shear on particle aggregation at an oil/water interface, *Langmuir* 38 (2022) 9621–9630.
  115. Ma X., N.N. Nguyen, A.V. Nguyen, A review on quantifying the influence of lateral capillary interactions on the particle floatability and stability of particle-laden interfaces, *Advances in Colloid and Interface Science* 307 (2022) 102731.
  116. Pohl G., M. Jannet, C. Planchette, Unjamming strongly compressed rafts: Effects of the compression direction, *Physical Review E* 106 (2022) 034904.
  117. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Capillary interaction between arbitrarily-shaped inclusions at the Ar gas/steel interface, *Metallurgical and Materials Transactions B* 53 (2022) 1894–1903.
  118. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Capillary interaction between micron sized  $\text{Ce}_2\text{O}_3$  inclusions at the Ar gas/liquid steel interface, *Metallurgical and Materials Transactions B* 53 (2022) 1775–1791.
  119. Qui Z., A. Malfliet, B. Blanpain, M. Guo, Behavior of arbitrary shaped  $\text{Ce}_2\text{O}_3$  clusters at the Ar gas/liquid steel interface, *Metallurgical and Materials Transactions B* 53 (2022) 3896–3908.
  120. Qui Z., A. Malfliet, M. Guo, B. Blanpain, A sub-particle model for capillary interaction between arbitrary shaped nonmetallic inclusions: Gravity induced, *Metallurgical and Materials Transactions B* 53 (2022) 3505–3523.
  121. Qui Z., A. Malfliet, M. Guo, B. Blanpain, A sub-particle model for capillary interaction between arbitrary shaped nonmetallic inclusions with an undulated contact line, *Metallurgical and Materials Transactions B* 53 (2022) 3442–3458.
  122. Sun X., J. Ge, Synergism between lipophilic surfactant and lipophilic  $\text{SiO}_2$  nanoparticles enhances self-emulsification performance, *Journal of Petroleum Science and Engineering* 216 (2022) 110760.
  123. Aliche A., L. Stricker, J. Vermant, Model aggregated 2D suspensions in shear and compression: From a fluid layer to an auxetic interface?, *Journal of Colloid and Interface Science* 652 (2023) 317–328.
  124. Basu A., L.B. Okello, N. Castellanos, S. Roh, O.D. Velev, Assembly and manipulation of responsive and flexible colloidal structures by magnetic and capillary interactions, *Soft Matter* 19 (2023) 2466–2485.
  125. Kim J.W., C. Chen, H. Kim, S.-H. Kim, R.C. Hayward, Effect of surface tension on elastocapillary wrinkling of interfacially adsorbed hydrogel disks with photothermally programmed swelling profiles, *Soft Matter* 19 (2023) 3543–3550.
  126. Zuo M., O. Song, N. Hajieva, K. Lerch, J. Bolten, U. Plachetka, M.C. Lemme, Effect of Particle Size on the Orientation and Order of Assemblies of Functionalized Microscale Cubes Formed at the Water/Air Interface, *Langmuir* 39 (2023) 8658–8667.
  127. Soto-Aguilar D., E. Scholten, V. Fogliano, A. Madadlou, All-aqueous emulsions stabilized by sporopollenin exine capsules, *Food Hydrocolloids* 148 (2024) 109447.
  128. Rogier F., W. Shao, Y. Guo, L. Zhuang, W.K. Kegel, J. Groenewald, Deformation of confined liquid interfaces by inhomogeneous electric fields and localized particle forces, *Journal of Colloid and Interface Science* 657 (2024) 830–840.
  129. Gill W.A., M.T. Aziz, H.W. Darwish, M.R.S.A. Janjua, Exploring HCl–HCl interactions: QZVPP calculations, improved Lennard-Jones potential, and second virial coefficient analysis for thermodynamics and industrial applications, *RSC Advances* 14 (2024) 1890–1901.
  130. He X., Q. Lu, A review of high internal phase Pickering emulsions: Stabilization, rheology, and 3D printing application, *Advances in Colloid and Interface Science* 324 (2024) 103086.
- 92 G. Brenn, D. Valkovska, K.D. Danov, The formation of satellite droplets by unstable binary drop collisions, *Phys. Fluids* 13(9) (2001) 2463–2477. (брой: 122)**
1. Willis K., M. Orme, Binary droplet collisions in a vacuum environment: an experimental investigation of the role of viscosity, *Experiments in Fluids* 34(1) (2003) 28–41.
  2. Roisman I.V., Dynamics of inertia dominated binary drop collisions, *Phys. Fluids* 16(9) (2004) 3438–3449.
  3. Verdurmen R.E.M., P. Menn, J. Ritzert, S. Blei, G.C.S. Nhumai, T.S. Sorensen, M. Gunsing, H. Schonfeldt, Simulation of agglomeration in spray drying installations: the EDECAD project, *Drying Technology* 22(6) (2004) 1403–1461.
  4. Gao T.–C., R.–H. Chen, J.–Y. Pu, T.–H. Lin, Collision between an ethanol drop and a water drop, *Experiments in Fluids* 38(6) (2005) 731–738.
  5. Ko G.H., H.S. Ryou, Droplet collision processes in an inter-spray impingement system, *J. Aerosol Sci.* 36(11) (2005) 1300–1321.

6. Ko G.H., H.S. Ryou, Modeling of droplet collision-induced breakup process, *Int. J. Multiphase Flow* 31(6) (2005) 723–738.
7. Morozumi Y., H. Ishizuka, J. Fukai, Criterion between permanent coalescence and separation for head-on binary droplet collision, *Atomization and Sprays* 15(1) (2005) 61–80.
8. Pan Y., K. Suga, Numerical simulation of binary liquid droplet collision, *Phys. Fluids* 17(8) (2005) 1–14.
9. Weiss C., The liquid deposition fraction of sprays impinging vertical walls and flowing films, *Int. J. Multiphase Flow* 31(1) (2005) 115–140.
10. Chen R.H., C.T. Chen, Collision between immiscible drops with large surface tension difference: diesel oil and water, *Experiments in Fluids* 41(3) (2006) 453–461.
11. Chen R.H., S.L. Chiu, T.H. Lin, Collisions of a string of water drops on a water jet of equal diameter, *Experimental Thermal and Fluid Sci.* 31(1) (2006) 75–81.
12. Kalweit M., D. Drikakis, Collision dynamics of nanoparticles, in: P. Gumbsch (Ed.), *Multiscale Material Modelig, Symposium 2 Nanomechanics and Micromechanics*, Freiburg, Germany, 2006, pp. 194–196.
13. Kalweit M., D. Drikakis, Collision dynamics of nanoscale Lennard–Jones clusters, *Phys. Rev. B* 74(23) (2006) 235415.
14. Ko G.H., H.S. Ryou, S.W. Ko, K.C. Ro, N. Hur, Numerical study on binary droplet collision considering the collision-induced breakup and the effects of liquid properties, 10<sup>th</sup> International Conference on Liquid Atomization and Spray Systems, ICLASS 2006, Code 95930.
15. Madsen J., Computational and Experimental Study of Sprays from the Breakup of Water Sheets, PhD Thesis, The Faculty of Engineering and Science, Aalborg University, Esbjerg, Denmark, 2006.
16. Stralin P., F. Wahlin, N. Nordin, H.-E. Angstrom, A lagrangian collision model applied to an impinging spray nozzle, *SAE Technical Papers* (2006) Code 90183.
17. Singh R., Three dimensional marker-based multiphase flow computation, PhD Thesis, University of Florida, 2006.
18. Chen R.-H., Diesel–diesel and diesel–ethanol drop collisions, *Appl. Thermal Eng.* 27(2–3) (2007) 604–610.
19. Ko G.H., H.S. Ryou, Effects of impingement conditions on the characteristics of mutual impinging spray, *Atomization and Sprays* 17(2) (2007) 153–169.
20. Ko G.H., H.S. Ryou, N.K. Hur, S.W. Ko, M.O. Youn, Numerical study on bouncing and separation collision between two droplets considering the collision-induced breakup, *J. Mechanical Sci. Technology* 21(4) (2007) 585–592.
21. Munnannur A., R.D. Reitz, A new predictive model for fragmenting and non-fragmenting binary droplet collisions, *Int. J. Multiphase Flow* 33(8) (2007) 873–896.
22. Munnannur A., Droplet collision modelling in multi-dimensional engine spray computations, PhD Thesis, University of Wisconsin-Madison, 2007.
23. Uzgoren E., R. Singh, J. Sim, W. Shyy, Computational Modeling for Multiphase Flows with Spacecraft Application, Department of Aerospace Engineering, University of Michigan, Ann Arbor, Michigan, USA, 2007.
24. Uzgoren E., R. Singh, J. Sim, W. Shyy, Computational modeling for multiphase flows with spacecraft application, *Progress in Aerospace Science* 43(4–6) (2007) 138–192.
25. Dorao C.A., L.E. Patruno, P.M. Dupuy, H.A. Jakobsen, H.F. Svendsen, Modeling of droplet–droplet interaction phenomena in gas–liquid systems for natural gas processing, *Chemical Engineering Science* 63(14) (2008) 3585–3592.
26. Kalweit M., Molecular modelling of meso- and nanoscale dynamics, PhD Thesis, Department of Aerospace Science, Cranfield University, Cranfield, UK, 2008.
27. Kim S., K.H. Lee, C.S. Lee, Numerical simulation of the inter-spray impingement, *Proceedings of the 7<sup>th</sup> International Conference on Modelling and Diagnostics for Advanced Engine Systems, COMODIA 2008*, 2008, 397–403.
28. Loth E., J. March, K. Krishnan, Modeling drop–drop collision regimes for variable pressures and viscosities, 46th AIAA Aerospace Sciences Meeting and Exhibit; Reno, NV; 7 January 2008 through 10 January 2008; Code 82092.
29. Poncot A., Assimilation de donnees pour la dynamique du xenon dans les coeurs de centrale nucleaire, PhD Thesis, Polytechnical University Toulouse, 2008.
30. Juang R.R., Y.M. Lee, C.H. Chiang, J.S. Wu, Y.L. Hsu, S.W. Chau, Parallel Molecular Dynamics Simulation of Head-on Collision of Two Nanoscale Droplets with Low Relative Speed, *Journal of Computational and Theoretical Nanoscience* 6(1) (2009) 46–53.
31. Kim J., E.K. Longmire, Investigation of binary drop rebound and coalescence in liquids using dual-field PIV technique, *Experiments in Fluids* 47(2) (2009) 263–278.

32. Kim S., D.J. Lee, C.S. Lee, Modeling of binary droplet collisions for application to inter-impingement sprays, *International Journal of Multiphase Flow* 35(6) (2009) 533–549.
33. Liu D., P. Zhang, C.K. Law, Y. Guo, Collision dynamics and mixing of unequal-sized droplets, *Fall Meeting of the Eastern States Section of the Combustion Institute* 2009, 2009 103–109.
34. Munnannur A., R.D. Reitz, Comprehensive collision model for multidimensional engine spray computations, *Atomization and Sprays* 19(7) (2009) 597–619.
35. Nikolopoulos N., A. Theodorakakus, G. Bergeles, Off-centre binary collision of droplets: A numerical investigation, *International Journal of Heat and Mass Transfer* 52(19–20) (2009) 4160–4174.
36. Reitz R.D., A. Munnannur, Comprehensive collision model for multidimensional engine spray computations, *Atomization and Sprays* 19(7) (2009) 597–619.
37. Suh H.K., S.W. Park, C.S. Lee, Effect of grouped-hole nozzle geometry on the improvement of biodiesel fuel atomization characteristics in a compression ignition engine, *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering* 223(12) (2009) 1587–1600.
38. Boulesteix S., *Cisaillement d'une interface gaz-liquide en conduite et entraînement de gouttelettes*, PhD Thesis, Institut de Mécanique des Fluides de Toulouse (IMFT), 2010.
39. Cheng C., Y. Li, Y. Li, L. Zhao, Investigation of the influences of droplet viscosity and environmental pressure on the spray collision, *Transactions of Chinese Society of Agricultural Machinery* 41(11) (2010) 1–7+37.
40. Loth E., *Particles, Drops, and Bubbles: Fluid Dynamics and Numerical Methods*, Cambridge University Press, 2010.
41. Luret G., T. Menard, A. Berlemont, J. Reveillon, F.X. Demoulin, G. Blokkeel, Modeling collision outcome in moderately dense sprays, *Atomization and Sprays* 20(3) (2010) 251–258.
42. Roisman I.V., On the instability of a free viscous rim, *J. Fluid Mechanics* 661 (2010) 206–228.
43. Schlottke J., W. Straub, K.D. Beheng, H. Gomma, B. Weigand, Numerical investigation of collision-induced breakup of raindrops. Part I: Methodology and dependencies on collision energy and eccentricity, *Journal of the Atmospheric Sciences* 67(3) (2010) 557–575.
44. Strotos G., N. Nikolopoulos, K.-S.P. Nikas, A parametric numerical study of the head-on collision behavior of droplets, *Atomization and Sprays* 20(3) (2010) 191–209.
45. Valadeau C., *De l'éthnobotanique à l'articulation du soin: une approche anthropologique du système nosologique chez les yaneshas de Haute Amazonie péruvienne*, PhD Thesis, Polytechnical University, Toulouse, 2010.
46. Bayareh M., S. Mortazavi, Effect of density ratio on the hydrodynamic interaction between two drops in simple shear flow, *Iranian Journal of Science and Technology, Transaction B: Engineering* 35(M2) (2011) 121–132.
47. Cheng C., Y. Li, Y. Wang, L. Zhao, Spray atomization characteristics of group-hole nozzle, *Transactions of Chinese Society of Agricultural Machinery* 42(7) (2011) 21–25.
48. Cheng C.-S., Y.Q. Li, Y.-H. Wang, L.-F. Zhao, Investigation of the grid dependency from the spray simulation, *Journal of Aerospace Power* 26(9) (2011) 1964–1969.
49. Focke C., D. Bothe, Computational analysis of binary collisions of shear-thinning droplets, *J. of Non-Newtonian Fluid Mechanics* 166(14–15) (2011) 799–810.
50. Li X., U. Fritsching, Numerical investigation of binary droplet collisions in all relevant collision regimes, *Journal of Computational Multiphase Flows* 3(4) (2011) 207–224.
51. Li X., U. Fritsching, Simulations on head-on collisions of binary liquid droplets, *6th International Berlin Workshop on Transport Phenomena with Moving Boundaries* 24th–25th November 2011, Berlin, Germany.
52. Nikolopoulos N., G. Bergeles, The effect of gas and liquid properties and droplet size ratio on the central collision between two unequal-size droplets in the reflexive regime, *International Journal of Heat and Mass Transfer* 54(1–3) (2011) 678–691.
53. Gilet T., J.W.M. Bush, Froplets bouncing on a wet, inclined surface, *Physics of Fluids* 24 (2012) 122103.
54. Loth E., K. Krishnan, Modeling drop-drop collision regimes for variable pressures and viscosities, *50<sup>th</sup> AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition* 2012, AIAA-2012-0170.
55. Nikolopoulos N., G. Strotos, K.S. Nikas, G. Bergeles, The effect of Weber number on the central binary collision outcome between unequal-sized droplets, *International Journal of Heat and Mass Transfer* 55(7–8) (2012) 2137–2150.
56. Qiang H.-F., F.-Z. Chen, W.-R. Gao, Simulation of coalescence and bouncing of three-dimensional droplet collisions with low Weber numbers based on SPH method, *Engineering Mechanics* 29(2) (2012) 21–28.
57. Saroka M.D., N. Ashgriz, M. Movassat, Numerical investigation of head-on binary drop collisions in a dynamically inert environment, *Journal of Applied Fluid Mechanics* 5(1) (2012) 23–37.

58. Kohno J.-Y., M. Kobayashi, T. Suzuki, Protrusion formation during the collisional process of ethanol and water droplets: capillary wave propagation on the water droplet, *Chemical Physics Letters* 578 (2013) 15–20.
59. Kuschel M., M. Sommerfeld, Investigation of droplet collisions for solutions with different solids content, *Experiments in Fluids* 54(2) (2013) 1440.
60. Zhang H., H.L. Bo, Numerical prediction of the outcomes of binary-droplet collision in steam-water separator, 2013 21st International Conference on Nuclear Engineering, Vol. 4, 2013.
61. Monaco E., G. Brenner, K.H. Luo, Numerical simulation of the collision of two microdroplets with a pseudopotential multiple-relaxation-time lattice Boltzmann model, *Microfluidics and Nanofluidics* 16(1–2) (2014) 329–346.
62. Pischke P., K. Reinhold, D.P. Schmidt, A comparative validation of concept algorithms for stochastic particle tracking, Aachen: Publikationsserver der RWTH Aachen University, 2014.
63. Suzuki T., J.-Y. Kohno, Simultaneous detection of images and Raman spectra of colliding droplets: Composition analysis of protrusions emerging during collisions of ethanol and water droplets, *Journal of Physical Chemistry B* 118(21) (2014) 5781–5786.
64. Ghazian O., K. Adamiak, G.S.P. Kastle, Head-on collision of electrically charged droplets, *Journal of Electrostatics* 73 (2015) 89–96.
65. Krishnan K.G., E. Loth, Effects of gas and droplet characteristics on drop-drop collision outcome regime, *International Journal of Multiphase Flow* 77 (2015) 171–186.
66. Pawar S., J. Padding, N. Deen, A. Jongsma, F. Innings, J.A.M.H. Kuipers, Numerical and experimental investigation of induced flow and droplet-droplet interactions in a liquid spray, *Chemical Engineering Science* 138 (2015) 17–30.
67. Pishke P., R. Kneer, D.P. Schmidt, A comparative validation of concepts for collision algorithms for stochastic particle tracking, *Computers and Fluids* 113 (2015) 77–86.
68. Pishke P., R. Kneer, Drop collisions and equilibrium drop size distributions in turbulent dispersions, ICLASS 15, 13<sup>th</sup> Triennial International Conference on Liquid Atomization and Spray Systems, Tainan, Taiwan, August 23–27, 2015.
69. Saroka M.D., N. Ashgriz, Separation criteria for off-axis binary drop collisions, *Journal of Fluids* 2015 (2015) 15.
70. Kamp J., J. Villwock, M. Kraume, Drop coalescence in technical liquid/liquid applications: A review on experimental techniques and modelling approaches, *Reviews in Chemical Engineering* July (2016).
71. Li H., M. Kuschel, M. Sommerfeld, Experimental investigation and modelling of coalescence and agglomeration for spray drying of solutions, in: *Process-Spray*, Springer, 2016, 205–233.
72. Michaelides E.E., C.T. Crowe, J.D. Schwarzkopf, Computational methods, in: *Multiphase Flow Handbook*, CRC Press, 2016, 79–286.
73. Moqaddam A.M., S.S. Chikatamarla, I.V. Karlin, Simulations of binary droplet collisions with the entropic lattice Boltzmann method, *Physics of Fluids* 28(2) (2016) 022106.
74. Moqaddam A.M., Entropic lattice Boltzmann method for two-phase flow, PhD Thesis, ETH, Zurich, 2016.
75. Sommerfeld M., M. Kuschel, Modelling droplet collision outcomes for different substances and viscosities, *Experiments in Fluids* 57 (2016) 187.
76. Znaq Z., Y. Chi, L. Shang, P. Zhang, Z. Zhao, On the role of droplet bouncing in modeling impinging sprays under elevated pressures, *International Journal of Heat and Mass Transfer* 102 (2016) 657–668.
77. Du M., B. Huang, Q. Lu, J. Gong, M. Luo, Z. Wang, The subsequent development of droplet collisions in impinging streams, (2017) doi: 10.11949/j.issn.0438-1157.20171225.
78. Finotello G., J.T. Padding, N.G. Deen, A. Jongsma, F. Innings, J.A.M. Kuipers, Effect of viscosity on the droplet-droplet collisional interaction, *Physics of Fluids* 29(6) (2017) 067102.
79. He C.M., P. Zhang, Dynamics of binary droplet collision in gaseous environment, *Scientia Sinica: Physica, Mechanica et Astronomica* 47(7) (2017) 070013.
80. Hu C. S. Xia, C. Li, G. Wu, Three-dimensional numerical investigation and modeling of binary alumina droplet collision, *International Journal of Heat and Mass Transfer* 113 (2017) 569–588.
81. Kamp J., J. Villwock, M. Kraume, Droplet coalescence in technical liquid/liquid applications: A review of experimental techniques and modeling approaches, *Review in Chemical Engineering* 33(1) (2017) 1–47.
82. Li X.-G., U. Fritsching, Spray transport fundamental, in: *Metal Sprays and Spray Deposition*, Henein H., Uhlenwinkel V., Fritsching U., eds., Springer, 2017, 89–176.
83. Xia X., C. He, D. Yu, J. Zhao, P. Zhang, Vortex-ring-induced internal mixing upon the coalescence of initially stationary droplets, *Physical Review Fluids* 2(11) (2017) 113607.
84. Yin J., W. Kong, F. Wang, H. Liu, K. Yang, Experimental investigation of binary supercooled droplet collision, *Journal of Shanghai Jiaotong University* 51(8) (2017) 939–945.



85. Du M., B. Huang, Q. Lu, M. Luo, Z. Wang, Subsequent development of collided droplets in impinging stream, *Huagong Xuebao/CIESC Journal* 69 (2018) 2023–2031.
86. Finotelo G., R.F. Kooiman, J.T. Padding, K.A. Buist, A. Jongsma, F. Innings, J.A.M. Kuipers, The dynamics of milk droplet-droplet collisions, *Experiments in Fluids* 59 (2018) 17.
87. Finotelo G., S. De, J.C.R. Vrouwenvelde, J.T. Padding, K.S. Buist, S. Jongsma, F. Innings, J.A.M. Kuipers, Experimental investigation of non-Newtonian droplet collisions: The role of extensional viscosity, *Experiments in Fluids* 59(7) (2018) 113.
88. Inagaki K., Improved models of surface tension and air resistance for multiphysics particle method, *Journal of Nuclear Science and Technology* 55(2) (2018) 169–180.
89. Zhang Z., P. Zhang, Cross-impingement and combustion of sprays in high-pressure chamber and opposed-piston compression ignition engine, *Applied Thermal Engineering* 114 (2018) 137–146.
90. Agarwal A., Y. Wang, L. Liang, C. Naik, E. Meeks, The computational cost and accuracy of spray droplet collision models, *SAE Technical Papers* April (2019) 146987.
91. Finotello G., Droplet collision dynamics in a spray dryer, PhD Thesis, Eindhoven University of Technology, 2019.
92. Finotello G., Padding J.T., Buist K.A., Jongsma A., Innings F., Kuipers J.A.M., Droplet collisions of water and milk in a spray with Langevin turbulence dispersion, *International Journal of Multiphase Flow* 114 (2019) 154–167.
93. Simone G., O. van de Donk, On demand coalescence in microchannel: Viscosity matters, *Chemical Engineering Science* 208 (2019) 115173.
94. Sommerfeld M., L. Pasternak, Advances in modeling of binary droplet collision outcomes in Sprays: A review of available knowledge, *International Journal of Multiphase Flow* 117 (2019) 182–205.
95. Chen C.K., D. Verma, T.-H. Lin, Two successive drops impinging onto a hydrophobic plate, 12<sup>th</sup>- Asian Pacific Conference on Combustion, ASPACC 2019, 149702.
96. Suo S.Y., M. Jia, X. He, Y.Z. Zhang, L.S. Jiang, H. Liu, A new droplet collision model applied for spray in internal combustion engines, *Journal of Engineering Thermophysics* 40(9) (2019) 2183–2189.
97. Huang K.-L., K.-L. Pan, C. Josserand, Pinching dynamics and satellite droplet formation in symmetrical droplet collisions, *Physical Review Letters* 123 (2019) 234502.
98. Chowdhary S., S.R. Reddy, R. Banerjee, Detailed numerical simulations of unequal sized off-centre binary droplet collisions, *International Journal of Multiphase Flow* 128 (2020) 103267.
99. Harutyunyan S.H., L.E. Khachikyan, G.A. Harutyunyan, Generation of monodisperse particles, *Armenian Journal of Physics* 13 (2020) 310–315.
100. Li G., P. Wen, Y. Li, J. Wang, W. Chen, J. Yan, Numerical study on melt drop collision and hydraulic fragmentation during FCI of a nuclear reactor severe accident, *Nuclear Engineering and Design* 379 (2020) 110862.
101. Shlegel N.E., Y.S. Solomatin, P.A. Strizhak, Collision of water droplets with different initial temperatures, *Powder Technology* 367 (2020) 820–830.
102. Shlegel N.E., Y.S. Solomatin, P.A. Strizhak, Experimental research into the characteristics of child droplets formed due to collisions of liquid fragments in a gas, *Powder Technology* 363 (2020) 122–134.
103. Somwanshi P., K. Muralidhar, S. Khadekar, Coalescence dynamics of drops over a hydrophobic surface, *Drop Dynamics and Dropwise Condensation and Texture Surfaces* (2020) Springer 81–129.
104. Zhang H., Q. Liu, Numerical investigation on performance of moisture separator by Lagrangian-Eulerian strategy: Physical mechanisms, theoretical models, and advanced algorithms, *Annals of Nuclear Energy* 137 (2020) 107081.
105. Wen P., G. Li, J. Gao, Y. Li, A. Jamaji, J. Yan, Numerical study of collision behavior of melt drops during fuel-coolant interaction, *International Conference of Nuclear Engineering* 3 (2020) 164166.
106. Ahmed F.B.M., N. Kawahara, E. Tomita, Binary collisions and coalescence of droplets in low-pressure fuel injector, *Thermal Science* 25 (2021) 1963–1974.
107. Huang K.-L., K.-L. Pan, Transitions of bouncing and coalescence in binary droplet collisions, *Journal of Fluid Mechanics* 928 (2021) A7.
108. Kropotova S., P. Strizhak, Collisions of liquid droplets in a gaseous medium under conditions of intense phase transformations: Review, *Energies* 14 (2021) 6150.
109. Pasternak L., M.J.M. Manas, M. Sommerfeld, Influence of droplet properties on the coating of free-falling spherical particles, *Atomization and Sprays* 31 (2021) 37–61.
110. Shlegel N., P. Strizhak, Collisions of water drops in a gas-vapor environment at high temperatures and vapor concentrations, *Thermal Science* 25 (2021) 3441–3451.
111. Zhao J., S. Xue, J. Han, R. Wen, Z. Lan, T. Hao, X. Ma, Research progress in binary droplet collision behavior and regulation mechanism, *CIESC Journal* 72 (2021) 2354–2372.

112. Alobaid F., N. Almohammed, F. Massoudi, J. May, P. Rossger, A. Richter, B. Epple, Progress in CFD simulations of fluidized beds for chemical and energy process engineering, *Progress in Energy and Combustion Science* 91 (2022) 100930.
113. Suo S., M. Jia, H. Liu, L. Jiang, Improved classification criterion of droplet collision outcomes from internal combustion engine spray, *Journal of Engineering Thermophysics* 43 (2022) 2831–2839.
114. Wei X., Z. Zhang, Modeling droplet collision dynamic for Lagrangian simulation of impinging spray under high ambient pressures using an improved approach, *Computers & Fluids* 246 (2022) 105621.
115. Zhang Y., G. Hu, Y. Liu, J. Wang, G. Yang, D. Li, Suppression and utilization of satellite droplets for inkjet printing: A review, *Processes* 10 (2022) 932.
116. Antonov D.V., R.M. Fedorenko, P.A. Strizhak, Mathematical Simulation of the Formation of the Secondary Fragments of Liquid Droplets as a Result of Their Collision, *Journal of Engineering Physics and Thermophysics* 96 (2023) 17–28.
117. Harutyunyan S.H., L.E. Khachikyan, G.A. Harutyunyan, A.L. Margaryan, D.E. Baghdasaryan, T.R. Muradyan, Generator of Monodisperse Droplets and Some Applications, *Journal of Physics: Conference Series* 2657 (2023) 195533.
118. Ray S., Y. Han, S. Cheng, Pinch-off dynamics in unequal-size droplets head-on collision on a wetting surface: Experiments and direct numerical simulations, *Physcis Fluids* 35 (2023) 122105.
119. Xia J., Q. Zhang, J. Wang, Z. He, Q. Zhou, D. Zhou, Y. Qian, D. Ju, X. Lu, Experimental study of the effect of various collision angles and critical conditions on marine engine's twin-spray collision process, *International Journal of Engine Research* 24 (2023) 999–1015.
120. Xia J., Q. Zhang, J. Wang, Z. He, Q. Zhou, D. Zhou, Y. Qian, D. Ju, X. Lu, Experimental study on the combustion and soot emission of twin-spray collision at various collision angles and injection pressures under marine engine's conditions, *International Journal of Engine Research* 24 (2023) 3783–3794.
121. Namgung B., H. Dai, P.P. Vikraman, T. Saha, S. Sengupta, H.L. Jang, An inexpensive “do-it-yourself” device for rapid generation of uniform tumor spheroids, *Device* 2 (2024) 100255.
122. Ткаченко П.П., АГЛОМЕРИРОВАНИЕ И РАЗДЕЛЕНИЕ КОМПОНЕНТОВ СУСПЕНЗИЙ ПРИ СОУДАРЕНИИ КАПЕЛЬ ЖИДКОСТЕЙ И ТВЕРДЫХ ЧАСТИЦ В ТЕХНОЛОГИЯХ ТЕПЛОТЕХНИКИ, PhD thesis, Tomsk University, 2024.

**91 D.S. Valkovska, K.D. Danov, Influence of ionic surfactants on the drainage velocity of thin liquid films, J. Colloid Interface Sci. 241 (2001) 400–412. (брой: 40)**

1. Stoyanov S., Theory and simulation of interfacial effects and phase behaviour of nonionic surfactants, PhD Thesis, Essen University, 2002.
2. Tsekov R., P. Letocart, E. Evstatieva, H.J. Schulze, Effect of ionic surfactants on the dimple relaxation in wetting films, *Langmuir* 18 (2002) 5799–5803.
3. Rother M.A., R.H. Davis, Buoyancy-driven coalescence of spherical drops covered with incompressible surfactant at arbitrary Peclet number, *J. Colloid Interface Sci.* 270(1) (2004) 205–220.
4. Tan S.H., D. Fornasiero, R. Sedev, J. Ralston, Marangoni effects in aqueous polypropylene glycol foams, *J. Colloid Interface Sci.* 286(2) (2005) 719–729.
5. Baldessari F., L.G. Leal, Effect of overall drop deformation on flow-induced coalescence at low capillary numbers, *Phys. Fluids* 18(1) (2006) 013602.
6. Karakashev S.I., A.V. Nguyen, Effect of sodium dodecyl sulphate and dodecanol mixtures on foam film drainage: examining influence of surface rheology and intermolecular forces, *Colloids Surfaces A* 293(1–3) (2007) 229–240.
7. Karakashev S.I., E. Manev, A.V. Nguyen, Effect of double-layer repulsion on foam film drainage, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 319(1–3) (2008) 34–42.
8. Karakashev S.I., E. Manev, R. Tsekov, A.V. Nguyen, Effect of ionic surfactants on drainage and equilibrium thickness of emulsion films, *J. Colloid Interface Sci.* 318(2) (2008) 358–364.
9. Venturelli W.H., Estudos da atividade antiespumante de ésteres etílicos derivados de óleos vegetais, Thesis, Faculdade de Filosofia, Ribeirão Preto, 2008.
10. Dong X., D. Sun, G. Liu, C. Cao, X. Jiang, Aqueous foam stabilized by hydrophobically modified cellulose and alkyl polyoxyethyl sulfate complex in the presence and absence of electrolytes, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 345(1–3) (2009) 58–64.
11. Henry C.L., Bubbles, thin films, and ion specificity, PhD Thesis, The Australian National University, 2009.
12. Podgorska W., Prediction of drop size distributions in stirred tanks equipped with radial and axial flow impellers, *Chemical and Process Engineering* 30(1) (2009) 181–197.
13. Sarrazin P., D. Chaussy, L. Vurth, O. Stephan, D. Beneventi, Surfactant (TTAB) role in the preparation of 2,7-poly (9,9-dialkylfluorene-co-fluorenone) nanoparticles by miniemulsion, *Langmuir* 25(12) (2009) 6745–6752.

14. Dong X., J. Xu, C. Cao, D. Sun, X. Jiang, Aqueous foam stabilized by hydrophobically modified silica particles and liquid paraffin droplets, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 353(2–3) (2010) 181–188.
15. Karakashev S.I., D.S. Ivanova, Thin liquid film drainage: ionic vs. non-ionic surfactants, *J. Colloid Interface Sci.* 343 (2010) 584–593.
16. Karakashev S.I., D.S. Ivanova, Z.K. Angarska, E.D. Manev, R. Tsekov, B. Radoev, R. Slavchov, A.V. Nguyen, Comparative validation of the analytical models for the Marangoni effect on foam film drainage, *Colloids Surfaces A* 365(1–3) (2010) 122–136.
17. Karakashev S.I., R. Tsekov, D.S. Ivanova, Dynamic effects in thin liquid films containing ionic surfactants, *Colloids Surfaces A* 356(1–3) (2010) 40–45.
18. Tsekov R., D.S. Ivanova, R. Slavchov, B. Radoev, E.D. Manev, A.V. Nguyen, S.I. Karakashev, Streaming potential effect on the drainage of thin liquid films stabilized by ionic surfactants, *Langmuir* 26(7) (2010) 4703–4708.
19. Tsekov R., D. Ivanova, R. Slavchov, B. Radoev, E. Manev, A.V. Nguyen, S.I. Karakashev, A new model for kinetics of a drainage of thin liquid films with ionic surfactants, *Годишник на Шуменския Университет*, 2010.
20. Ангарска Ж., Д. Иванова, К. Щубенраух, Гибсова еластичност и адсорбционни слоеве от смесени разтвори на n-додецил- $\beta$ -D-малтозид с додеканол, *Годишник на Шуменския Университет*, 2010.
21. Gao F., S. Yang, P. Hao, J.R.G. Evans, Suspension stability and fractal patterns: A comparison using hydroxyapatite, *Journal of American Ceramic Society* 94(3) (2011) 704–712.
22. Karakashev S.I., D.S. Ivanova, Dynamic effects in thin films with different radii, *Годишник на СУ, Химически факултет*, 102/103 (2011) 103–121.
23. Karakashev S.I., R. Tsekov, Electro-Marangoni effect in thin liquid films, *Langmuir* 27 (2011) 2265–2270.
24. Radoev B., K.W. Stoeckelhuber, R. Tsekov, P. Letocart, Wetting film dynamics and stability, *Colloid Stability and Application in Pharmacy*, 3 (2011) 151–172.
25. Bak A., W. Podgorska, Investigation of drop breakage and coalescence in the liquid-liquid system with nonionic surfactants Tween 20 and Tween 80, *Chemical Engineering Science* 74 (2012) 181–191.
26. Karakashev S.I., M.V. Grozdanova, Foams and antifoams, *Advances in Colloid and Interface Science* 176–177 (2012) 1–17.
27. Curschellas C., K. Nagy, E. Windnab, H.J. Limbach, Characteristics of polyglycerol ester and its different fractions, *J. Colloid Interface Sci.* 393(1) (2013) 182–191.
28. Eftekhardadkhan M., G. Oye, Induction and coverage times for crude oil droplets spreading on air bubbles, *Environmental Science and Technology* 47(24) (2013) 14154–14160.
29. Atalay S., Y. Ma, S. Qian, Analytical model for charge properties of silica particles, *J. Colloid Interface Sci.* 425 (2014) 128–130.
30. Atalay S., Role of Surface Chemistry in Nanoscale Electrokinetic Transport, PhD Thesis, old Dominion University, Aerospace Engineering, 2014.
31. Firuoz M., Drainage and stability of foam films during bubble coalescence in aqueous salt solutions, PhD Thesis, School of Chemical Engineering, University of Queensland, AU, 2014.
32. Karakashev S., Anomalous drainage of nanofilms from concentrated NaCl solutions of tetraethylene glycol octyl ether (C8E4), *Chemistry: Bulgarian Journal of Science Education* 24(6) (2015) 922–929.
33. Karakashev S., E. Manev, Hydrodynamics of thin liquid films: Retrospective and perspectives, *Advances in Colloid and Interface Science* 222 (2015) 398–412.
34. Wong K., T. Chen, D.E. Connor, M. Behnia, K. Parsi, Basic physicochemical and rheological properties of detergent sclerosants, *Phlebology* 30(5) (2015) 339–349.
35. Podgorska W., D.L. Marchisio, Modeling of turbulent drop coalescence in the presence of electrostatic forces, *Chemical Engineering Research and Design* 108 (2016) 30–41.
36. Marlega P., W. Baranowska, A. Bak, W. Podgorska, Wpływ rodzaju elektrolitu na stabilizację lub destabilizację dyspersji olej-woda w przepływie burzliwym w zbiorniku z mieszadłem, *INŻYNIERIA I APARATURA CHEMICZNA* 57(5) (2018) 142–143.
37. Wong K.C., Experimental and numerical investigation and modelling of sclerosant foams, PhD Thesis, University of Sydney, 2018.
38. Zhao C., W. Zhang, D. van den Ende, F. Mugele, Electroviscous effect on the squeezing flow of thin electrolyte solution films, *Journal of Fluid Mechanics* 888 (2020) A29.
39. Radoev B., K.W. Stockelhuber, R. Tsekov, P. Letocart, Wetting film dynamics and stability, *Colloids and Interface Science Series* 6 (2014) 151–172.
40. Chen S., B. Guo, Pore-Scale Modeling of PFAS Transport in Water-Unsaturated Porous Media: Air–Water Interfacial Adsorption and Mass-Transfer Processes in Thin Water Films, *Water Resources Research* 59 (2023) e2023WR034664.

- 88 **K.D. Danov, On the viscosity of dilute emulsions, J. Colloid Interface Sci. 235 (2001) 144–149. (брой: 57)**
1. Petkov J., N.D. Denkov, Dynamics of particles on interfaces and thin liquid films, In: Encyclopedia of Surface and Colloid Science, A. Hubbard, Ed.; Marcel Dekker, New York, 2001.
  2. Robins M.M., A.D. Watson, P.J. Wilde, Emulsions – creaming and theology, *Current Opinion in Colloid and Interface Sci.* 7(5–6) (2002) 419–425.
  3. Vlahovska P., J. Blawdziewicz, M. Loewenberg, Nonlinear rheology of a dilute emulsion of surfactant-covered spherical drops in time-dependent flows, *J. Fluid Mech.* 463 (2002) 1–24.
  4. Peng Y.C., M.C. Guo, L. Li, K. Li, Research of bubble shape and interfacial characteristics when CO<sub>2</sub> is injected into HDPE melt, *J. Mater. Sci. Lett.* 22(8) (2003) 639–641.
  5. Gallegos C., J.M. Franco, P. Patral, Rheology of food dispersions, *Rheology Reviews* 2004, 19–65.
  6. Da Trindade Neto C.G., A.L.P. Fernandes, A.I.B. Santos, W.A. Morais, M.V.M. Navarro, T.N.C. Dantas, M.R. Pereira, J.L.C. Fonseca, Preparation and characterization of chitosan-based dispersions, *Polym. International* 54(4) (2005) 659–666.
  7. Filip P., R. Pivokonski, On empirical modelling of viscosity regarding ageing of emulsions, *Acta Technica CSAV (Ceskoslovensk Akademie Ved)* 50(1) (2005) 53–66.
  8. Park G.-G., J.-S. Han, S.-M. Lee, C.-K. Lee, M.-S. Yoon, Surface rheological properties of a solid-state emulsion, *J. Dispersion Sci. Technology* 26(6) (2005) 769–778.
  9. Schalper K., S. Harnisch, R.H. Muller, G.E. Hildebrand, Preparation of microparticles by micromixers: characterization of oil/water process and prediction of particle size, *Pharmac. Res.* 22(2) (2005) 276–284.
  10. Vlahovska P.M., Dynamics of a Surfactant-Covered Drop and the Non-Newtonian Rheology of Emulsions, PhD Thesis, Yale University, Yale, USA, 2005.
  11. De Hoog E.H.A., J.F. Prinz, L. Huntjens, D.M. Dresselhuys, G.A. van Aken, Lubrication of oral surfaces by food emulsions: the importance of surface characteristics, *J. Food Sci.* 71(7) (2006) E337–E341.
  12. Fischer P., P. Erni, Emulsion drops in external flow fields – the role of liquid interfaces, *Curr. Opin. Colloid Interface Sci.* 12(4–5) (2007) 196–205.
  13. Mackie A.R., M.J. Ridout, G. Moates, F.A. Husband, P.J. Wilde, Effect of the interfacial layer composition on the properties of emulsion creams, *J. Agricultural Food Chemistry* 55(14) (2007) 5611–5619.
  14. Erni P., P. Fischer, V. Herle, M. Haug, E.J. Windhab, Complex interfaces and their role in protein-stabilized soft materials, *ChemPhysChem* 9(13) (2008) 1833–1837.
  15. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
  16. Tcholakova S., N.D. Denkov, K. Golemanov, K.P. Ananthapadmanabhan, A. Lips, Theoretical model of viscous friction inside steadily sheared foams and concentrated emulsions, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 78(1) (2008) 011405.
  17. Derkach S.R., Rheology of emulsions, *Advances in Colloid and Interface Science* 151(1–2) (2009) 1–23.
  18. Wilde P.J., M.J. Ridout, A.R. Mackie, M.S.J. Wickham, R.M. Faulks, Modulating lipid delivery in food emulsions, *ACS Symposium Series* 1007 (2009) 67–88.
  19. Interfacial Rheology, R. Miller and L. Liggieri Eds., Ch. 15.
  20. Derkach S.R., Rheology from the way from dilute to concentrated emulsions, *International Review of Chemical Engineering* 2(3) (2010) 465–472.
  21. De Vicente J., Rheological models for structured fluids, in: *Structure and Functional Properties of Colloidal Systems*, 2010, Ch. 11.
  22. Erni P., Deformation modes of complex fluid interfaces, *Soft Matter* 7(17) (2011) 7586–7600.
  23. Erni P., E.J. Windhab, P. Fisher, Emulsion drops with complex interfaces: Globular versus flexible proteins, *Macromolecular Materials and Engineering* 296(3–4) (2011) 249–262.
  24. Kalra A., K. Raney, B. Dindoruk, A. Venkatraman, Prediction and experimental measurements of water-in-oil emulsion viscosities during alkaline surfactant injections, *Society of Petroleum Engineers - SPE Enhanced Oil Recovery Conference 2011, EORC 2011*, 1 (2011) 450–463.
  25. Pal R., Influence of interfacial rheology on the viscosity of concentrated emulsions, *J. Colloid Interface Sci.* 356(1) (2011) 118–122.
  26. Pal R., Rheology of simple and multiple emulsions, *Current Opinion in Colloid and Interface Science* 16(1) (2011) 41–60.
  27. Wunenburger R., B. Issenmann, E. Brasselet, C. Loussert, V. Hourtane, J.P. Delville, Fluid flows driven by light scattering, *J. Fluid Mechanics* 666 (2011) 273–307.
  28. Kalra A., A. Venkatraman, K.H. Raney, B. Dindoruk, Prediction and experimental measurements of water-in-oil emulsion viscosities during alkaline/surfactant injections, *Society of Petroleum Engineers SPE-143992-PA*, 2012.



29. Moravkova T., Filip P., The influence of emulsifier on rheological and sensory properties of cosmetic lotions, *Advances in Materials Science and Engineering* 2013 (2013) 168503.
30. Murtiningrum, Z.L. Sarungalo, G.N. Cepeda, N.O. Tin, Tabilitas emulsi minyak buah, *Jurnal Teknologi Industri Pertanian* 23(1), 2013.
31. Datta S., S. Raturi, Cell model for slow viscous flow past spherical particles with surfactant layer coating, *Journal of Applied Fluid Mechanics* 7 (2014) 263–273.
32. Husband F.A., M.J. Ridout, P.S. Clegg, M. Hermes, J. Forth, W.C.K. Poon, P.J. Wilde, The impact of the interfacial behavior on emulsion rheology: a potential approach to reducing fat content in emulsified foods, *Gums and Stabilizers for the Food Industry* (2014) 230–237.
33. Moravkova T., P. Filip, The influence of thickeners on the rheological and sensory properties of cosmetic lotions, *Acta Polytechnica Hungarica* 11(6) (2014) 173–186.
34. Petkov J.T., N.D. Denkov, Thin liquid films and interfaces: particle dynamics, in: *Encyclopedia of Surface and Colloid Science*, 2015, 7399–7414.
35. Raturi S., Certain flow problems with surfactant layers, PhD Thesis, University of Lucknow, Department of Mathematics and Astronomy, 2015.
36. Gounley J., G. Boedec, M. Jaeger, M. Leonetti, Influence of surface viscosity on droplets in shear flow, *Journal of Fluid Mechanics* 791 (2016) 464–494.
37. Jiang G., Y. He, X. Huang, Z. Deng, Y. Qin, A high-density organoclay-free oil base drilling fluid based on supramolecular chemistry, *Petroleum Exploration and Development* 43(1) (2016) 143–148.
38. Pal R., Fundamental rheology of disperse systems based on single-particle mechanics, *Fluids* 1(4) (2016) 40.
39. Strasser D., M. Bergmann, B. Smeulders, D. Paesold, K. Krimpelstatter, P. Schellingerhout, A. Kainz, K. Zeman, A novel model-based approach for the prediction of wear in cold rolling, *Wear* 376-377B (2017) 1245–1259.
40. Narsimhan V., The effect of surface viscosity on the translational speed of droplets, *Physics of Fluids* 30 (2018) 081703.
41. Noetinger B., L. Hume, R. Chatelin, P. Poncet, Effective viscosity of a random mixture of fluids, *Physical Review Fluids* 3 (2018) 014103.
42. Sengupta R., L.M. Walker, A.S. Khair, Effective viscosity of a dilute emulsion of spherical drops containing soluble surfactants, *Rheologica Acta* 57(6–7) (2018) 481–491.
43. Fiorotti T.A., C.M.S. Sad, E.R.V. Castro, L.L. Barbosa, Rheological study of w/o emulsion by low field NMR, *Journal of Petroleum Science and Engineering* 176 (2019) 421–427.
44. Narsimhan V., Shape and rheology of droplets with visous surface moduli, *Journal of Fluid Mechanics* 862 (2019) 385–420.
45. Rasulov S.R., G.I. Kelbaliev, Oil emulsions rheology, *Новые Методы и Технологии* 5 (2019) 64–69.
46. Sahumena M.H., Suryani, N. Rahmadani, Formulasi self-nanoemulsifying drug delivery system (SNEDDS) asam mefenamat menggunakan VCO dengan kombinasi surfaktan Tween dan Span, *Journal Syifa Sciences and Clinical Research* 1(2) (2019) 37–46.
47. Sengupta R., Electrohydrodynamics of surfactant-laden fluid-fluid interfaces, PhD Thesis, Carnegie Mellon University, Pittsburgh, USA, 2019.
48. Skvortsov I.Y., L.A. Varfolomeeva, V.G. Kulichikhin, effect of tetraethoxysilane on the pjase state, rheological properties, and coagulation features of polyacrylonitrile solutions, *Colloid Journal* 81(2) (2019) 165–175.
49. Annisa R., M. Yuwono, E. Hendradi, Effect of vegetable oil on self-nanoemulsifying drug delivery system of dayak onion [*eleutherine palmifolia* (L.) merr.] extract using hydrophilic-lipophilic balance approach: Formulation, characterization, *International Journal of Drug Delivery Technology* 10 (2020) 210–216.
50. Das S., S. Mandal, S. Chakraborty, Interfacial viscosity-dictated morpho-dynamics of a compound drop in linear flows, *Physics of Fluids* 32 (2020) 062006.
51. Dolata B.E., R.N. Zia, Faxen formulas for particles at arbitrary shape and material composition, *Journal of Fluid Mechanics* 910 (2021) A22.
52. Jaensson N.O., P.D. Anderson, J. Vermant, Computational interfacial rheology, *Journal of non-Newtonian Fluid Mechanics* 290 (2021) 104507.
53. Simonen G., J. Kjolaas, P.R. Leinan, H. Schumann, Literature review on surface-active components in emulsions and foams: Theory and modelling efforts, *Geoenergy Science and Engineering* 230 (2023) 212516.
54. Yan G., Li Y., Wang H., He L., Li Y., Li Y., Zhang L., Yan J., Effect of composition of emulsifier blends on aerated emulsions: Stability, thermodynamic, interfacial behavior and aeration properties, *LWT* 188 (2023) 115395.

55. Yan G., S. Wang, Y. Li, L. He, Y. Li, L. Zhang, Effect of emulsifier HLB on aerated emulsions: Stability, interfacial behavior, and aeration properties, *Journal of Food Engineering* 351 (2023) 111505.
  56. Murasiewicz H., K. Illienko, Liquid-liquid two phase-system stabilized by tween 40 and 80 surfactants: multiparametric study, *Polish Journal of Chemical Technology* 26 (2024) 51–63.
  57. Yan G., Y. Li, H. Wang, S. Cui, Y. Li, L. Zhang, J. Yan, Multiscale approach to the characterization of the interfacial properties of micellar casein and whey protein blends and their effects on recombined dairy creams, *Food Research International* 188 (2024) 114453.
- 87 K.D. Danov, P.A. Kralchevsky, I.B. Ivanov, Dynamic processes in surfactant-stabilized emulsions, in: J. Sjöblom (ed.), Encyclopedic Handbook of Emulsion Technology, Marcel Dekker, New York, 2001, pp. 621–659. (брой: 49)**
1. Gurkov T.D., E.S. Basheva, Hydrodynamic behavior and stability of approaching deformable drops, in: A.T. Hubbard (Ed.), *Encyclopedia of Surface and Colloid Science*, Marcel Dekker, New York, 2002.
  2. Perez M., N. Zambrano, M. Ramirez, E. Tyrode, J.–L. Salager, Surfactant–oil–water systems near the affinity inversion. Part XII: Emulsion drop size versus formulation and composition, *J. Dispersion Sci. Technology* 23(1–3) (2002) 55–63.
  3. Aldana G.A.P., Effect of surfactants on drop size distributions in a batch, rotor–stator mixer, Ph.D. Thesis, Faculty of the Graduate School of the University of Maryland, USA, 2005.
  4. Dukhin S.S., C. Zhu, R.N. Dave, Q. Yu, Hydrodynamic fragmentation of nanoparticle aggregates at orthokinetic coagulation, *Adv. Colloid Interface Sci.* 114–115 (2005) 119–131.
  5. Angle C.W., T. Dabros, H.A. Hamza, Predicting sizes of toluene–diluted heavy oil emulsions in turbulent flow. Part 1 – Application of two adsorption kinetic models for  $\sigma^E$  in two size predictive models, *Chem. Eng. Sci.* 61(22) (2006) 7309–7324.
  6. Avila C., Interfacial phenomena in oil-in-water dispersion, PhD Thesis, University of Tulsa, 2006.
  7. Hannisdal A., Particle-Stabilized Emulsions and Heavy Crude Oils. Characterization, Stability Mechanism, and Interfacial Properties, PhD Thesis, Norwegian University of Science and Technology (NTNU), N–7491 Trondheim, Norway, 2006.
  8. Tolosa L.–I., A. Forgiarini, P. Moreno, J.–L. Salager, Combined effects of formulation and stirring on emulsion drop size in the vicinity of three–phase behavior of surfactant–oil water systems, *Ind. Eng. Chem. Res.* 45(11) (2006) 3810–3814.
  9. Hannisdal A., P.V. Hemmingsen, A. Silset, J. Sjöblom, Stability of water/crude oil systems correlated to the physicochemical properties of the oil phase, *J. Dispersion Sci. Technology* 28(4) (2007) 639–652.
  10. Hannisdal A., R. Orr, J. Sjöblom, Viscoelastic properties of crude oil components at oil–water interfaces. 2: Comparison of 30, *J. Dispersion Sci. Technology* 28(3) (2007) 361–369.
  11. Menkiti M.C., P.K. Igboke, F.X.O. Ugodunwa, O.D. Onukwuli, Rapid coagulation/floculation kinetics of coal effluent with high organic content using blended and unblended chitin derived coagulant (CSC), *Research J. Appl. Sci.* 3(4) (2008) 317–323.
  12. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Adv. Colloid Interface Sci.* 140(1) (2008) 1–65.
  13. Caubet S., PROCÉDES BASSE ENERGIE POUR LA PRODUCTION D'EMULSIONS TRES CONCENTREES HUILE DANS EAU: CARACTERISATION, INTENSIFICATION ET APPLICATIONS, PhD Thesis, Physics. Universite de Pau et des Pays de l'Adour, 2010.
  14. Dixit S.S., H. Kim, A. Vasilyev, A. Eid, G.W. Faris, Light-driven formation and rupture of droplet bilayers, *Langmuir* 26(9) (2010) 6193–6200.
  15. Manor O., D.Y.C. Chan, Influence of surfactants on the force between two bubbles, *Langmuir* 26(2) (2010) 655–662.
  16. Salonen A., C. Moitzi, S. Salentinig, O. Glatter, Material transfer in cubosome–emulsion mixtures: Effect of alkane chain length, *Langmuir* 26(3) (2010) 10670–10676.
  17. Dukhin A.S., S.S. Dukhin, Rapid brownian and gravitational coagulation, *Colloid Stability: The Role of Surface Forces*, Part II, 2 (2011) 345–378.
  18. Watkins J.D., Enhancing triple phase boundary electrosynthesis, PhD Thesis, Department of Chemistry, University of Bath, 2011.
  19. Zhang J., Novel emulsion-based delivery systems, PhD Thesis, University of Minnesota, 2011.
  20. Govedarica D.D., R.M. Secerov Sokolovic, D.S. Sokolovic, S.M. Sokolovic, Evaluation of the separation of liquid-liquid dispersions by flow through fiber beds, *Industrial and Engineering Chemistry Research* 51(49) (2012) 16085–16091.
  21. Skartlien R., B. Grimes, P. Meakin, J. Sjöblom, E. Sollum, Coalescence kinetics in surfactant stabilized emulsions: evolution equations from direct numerical simulations, *Journal of Chemical Physics* 137(21) (2012) 214701.

22. Skartlien R., E. Sollum, A. Akselsen, P. Meakin, Direct numerical simulation of surfactant-stabilized emulsions: morphology and shear viscosity in starting shear flow, *Rheological Acta* 51(7) (2012) 649–673.
23. Ugonabo V.I., M.C. Menkiti, O.D. Onukwuli, Effect Of Mucuna Seed Coagulant On Total Dissolved Solid Particles Removal Efficiency In Pharmaceutical Effluent Medium By Coag-flocculation Process, *New York Science Journal* 5(9) (2012) 75–85.
24. Ugonabo V.I., M.C. Menkiti, O.D. Onukwuli, Kinetics and coagulation performance of snail shell biomass in pharmaceutical Effluent, *IOSR Journal of Engineering* 2(7) (2012) 38–49.
25. Adamczyk Z., Electrostatic interactions, in: *Encyclopedia in Colloid and Interface Science*, 2013, p. 362.
26. Brockel U., W. Meier, G. Wagner, Emulsion gels in food, in: *Product Design and Engineering: Formulations of Gels and Pastes*, 2013, Ch. 11.
27. Friberg S.E., Friberg S.H., Emulsion formation, in: *Encyclopedia in Colloid and Interface Science*, 2013, 366–414.
28. Kinetic modeling and functional parameters evaluation of mass transfer rate, *International Journal of Basic and Applied Science* 13(3) (2013) 33–47.
29. Scartlien R., E. Sollum, H. Schumann, Droplet size distributions in turbulent emulsions: breakup criteria and surfactant effects from direct numerical simulations, *Journal of Chemical Physics* 139(17) (2013) 174901.
30. Tadros T., Elasticity, in: *Encyclopedia in Colloid and Interface Science*, 2013, p. 341–342.
31. Tadros T., Emulsion systems, in: *Encyclopedia in Colloid and Interface Science*, 2013, p. 454–455.
32. Ugonabo V.I., M.C. Menkiti, E.C. Osoka, C.U. Atuanya, O.D. Onukwuli, Kinetic modeling and functional parameters evaluation of mass transfer rate, *International Journal of Basic and Applied Science* 13(3) (2013) 33–47.
33. Babayemi A.K., O.D. Onukwuli, A.O. Okewale, Coag-flocculation kinetics of phosphorus containing effluent using *Corchorus Olitorious* seed, *Science Research* 2(6) (2014) 172–178.
34. Nnaji P.C., B.I. Okolo, M.C. Menkiti, Nephelometric Performance Evaluation of Oxidized Starch in the Treatment of Coal Washery Effluent, *Natural Resources* 5(3) (2014) 44322.
35. Elahi S., Formulation of nano-structured emulsions for use in food and healthcare applications, PhD Thesis, Department of Chemistry, University of Bath, 2015.
36. Scartlien R., E. Sollum, F. Fakharian, T.L. Palmer, On the interfacial roughness scale in turbulent stratified two-phase flow: 3D lattice Boltzmann numerical simulations with forced turbulence and surfactant, *International Journal of Multiphase Flow* 69 (2015) 102–114.
37. Scartlien R., K. Furtado, E. Sollum, Multiphase flow research with a surfactant lattice Boltzmann model, *Journal of Dispersion Science and Technology* 36(10) (2015) 1360–1369.
38. Aquilera-Segura S.M., V. Nunez-Veles, L. Achenie, O. Alvares Solano, R. Torres, A.F. Gonzales Barrios, Peptides design based on transmembrane *Escherichia coli*'s OmpA protein through molecular dynamics simulations in water–dodecane interfaces, *Journal of Molecular Graphics and Modelling* 68 (2016) 216–223.
39. Deen G.R., J. Skovgaard, J.S. Pedersen, Formation and properties of nanoemulsions, in: A.M. Grumezesku, Ed., *Nanotechnology in the Agri-Food Industry*, Vol. 3, Emulsions, Elsevier, 2016.
40. Ugonabo V., L.N. Emembolu, C.A. Igwegbe, Bio-coag-flocculation of refined petroleum wastewater using plant extract: A turbidimetric approach, *International Journal of Emerging Engineering Approach and Technology* 4(11) (2016) 19–26.
41. Zorzenao P.C.S., Efeito das frações de asfaltenos na estabilização de emulsões de petróleo, Dissertação (mestrado) – Universidade Federal do Paraná, Setor de Ciências Exatas, Programa de Pós-Graduação em Química, 2016.
42. Almeida M.L., R.M. Charin, M. Nele, F.W. Tavares, Stability studies of high-stable water-in-oil model emulsions, *Journal of Dispersion Science and Technology* 38(1) (2017) 82–88.
43. Munoz J., M.C. Alfaro, L.A. Trujillo-Cayado, M.J. Martin-Pinero, Production of food bioactive-loaded nanostructures by microfluidization, *Nanoencapsulation of Food Ingredients by Specialized Equipment* (2019) 341–390.
44. Assadpour E., S.M. Jafari, An overview of specialized equipment for nanoencapsulation of food ingredients, *Nanoencapsulation of Food Ingredients by Specialized Equipment* (2019) 1–30.
45. Collette N.K., Effect of soy lecithin concentration on formulating dairy emulsions through ultrasound treatment, PhD Thesis, South Dakota State University, 2020.
46. Gandova V., S. Tasheva, K. Marinova, I. Petrova, A. Stoyanova, Influence of oil phase on stability of O/W emulsions, *Oxidation Communications* 43 (2020) 722–729.
47. Sobolciak P., A. Popelka, A. Tanvir, M.A. Al-Maadeed, S. Adham, I. Krupa, Materials and technologies for the tertiary treatment of produced water contaminated by oil impurities through nonfibrous deep-bed media: A review, *Water (Switzerland)* 12 (2020) 3419.

48. Hakansson A., L. Nilsson, Emulsifier adsorption kinetics influences drop deformation and breakup in turbulent emulsification, *Soft Matter* 19 (2023) 9059–9073.
  49. Gandova V., I. Petrova, S. Tasheva, A. Stoyanova, Thermodynamic investigations of food emulsions with pumpkin oil and protein stabilizer, *AIP Conference Proceedings* 2889 (2023) 080004.
- 86 K. Danov, R. Danev, K. Nagayama, Electric charging of thin films measured using the contrast transfer function, *Ultramicroscopy* 87 (2001) 45–54. (брой: 17)**
1. Van Aken R.H., C.W. Hagen, J.E. Barth, P. Kruit, Low-energy foil aberration corrector, *Ultramicroscopy* 93 (2002) 321–330.
  2. Wang W.-J., The fabrication of Zernike electrostatic phase plate and its application on the phase TEM, PhD Thesis, National Tsing Hua University, Taiwan, 2007.
  3. Alloyeau D., W.K. Hsieh, E.H. Anderson, L. Hilken, G. Brenner, X. Meng, F.R. Chen, C. Kisielowski, Imaging of soft and hard materials using a Boersch phase plate in a transmission electron microscope, *Ultramicroscopy* 110(5) (2010) 563–570.
  4. Aza'iez M., F.B. Belgacem, F. Jelassi, The density function reconstruction of surface sources from a single Cauchy measurement, *Computers and Fluids* 43 (2011) 14–22.
  5. Malac M., M. Beleggia, M. Kawasaki, P. Li, R.F. Egerton, Convenient contrast enhancement by a hole-free phase plate, *Ultramicroscopy* 118 (2012) 77–89.
  6. Bok J., O. Schauer, Performance of SEM scintillation detector evaluated by modulation transfer function and detective quantum efficiency function, *Scanning* 30(4) (2014) 384–393.
  7. Malac M., M. Beleggia, R.F. Egerton, M. Kawasaki, M. Berge, Y. Okura, I. Ishikawa, K. Motoki, Charging of thin film phase plates under electron beam irradiation, *Microscopy and Microanalysis*, Vol. 20, 2014, 230–231.
  8. Hart J.L., S. Liu, A.C. Lang, A. Hubert, A. Zukauskas, C. Canalias, R. Beanland, A.M. Rappe, M. Arredondo, M.L. Taheri, Electron-beam-induced ferroelectric domain behavior in the transmission electron microscope: Toward deterministic domain patterning, *Physical Review B* 94 (2016) 174104.
  9. Tsai C.-Y., Y.-C. Chang, I. Lobato, D. Van Dyck, F.-R. Chen, Hollow cone electron imaging for single particle 3D reconstruction of proteins, *Scientific Reports* 6 (2016) 27701.
  10. Russo C.J., R. Henderson, Charge accumulation in electron cryomicroscopy, *Ultramicroscopy* 187 (2018) 43–49.
  11. Russo C.J., R. Henderson, Microscopic charge fluctuations causes minimal contrast loss in cryoEM, *Ultramicroscopy* 187 (2018) 56–63.
  12. Malac M., S. Hettler, M. Hayashida, R.F. Egerton, M. Beleggia, Phase plate in the transmission electron microscopy: Operating principles and applications, *Microscopy* 70 (2021) 75–115.
  13. Bultema L.A., R. Buckner, E.C. Schulz, F. Tellkamp, J. Gonchior, R.J. Dwayne Miller, G.H. Kassier, The effect of secondary electrons on radiolysis as observed by in liquid TEM: The role of window material and electrical bias, *Ultramicroscopy* 240 (2022) 113579.
  14. Hawkes P., E. Kasper, *Principles of Electron Optics*, Vol. 3. Fundamental Wave Optics, 2022.
  15. Obermair M. S. Hettler, M. Dries, R. Spiecker, D. Gerthsen, Carbon-film-based Zernike phase plates with smooth thickness gradient for phase-contrast transmission electron microscopy with reduced fringing artefacts, *Journal of Microscopy* 287 (2022) 45–58.
  16. Zheng F., M. Beleggia, V. Migunov, G. Pozzi, R.E. Dunin-Borkowski, Electron-beam-induced charging of an Al<sub>2</sub>O<sub>3</sub> nanotip studing using off-axis electron holography, *Ultramicroscopy* 241 (2022) 113593.
  17. Schaap W.J., A pulsed laser phase plate for transmission electron microscopy, PhD Thesis, Eindhoven University of Technology, 2023.
- 85 K.D. Tachev, J.K. Angarska, K.D. Danov, P.A. Kralchevsky, Erythrocyte attachment to substrates: determination of membrane tension and adhesion energy, *Colloids Surfaces B* 19 (2000) 61–80. (брой: 27)**
1. Liu K.K., H.G. Wang, K.T. Wan, T. Liu, Z. Zhang, Characterizing capsule–substrate adhesion in presence of osmosis, *Colloids Surfaces B* 25(4) (2002) 293–298.
  2. Minerick A.R., A. Ostafin, H.-C. Chang, Electrokinetic transport of red blood cells in microcapillaries, *Electrophoresis* 23(14) (2002) 2165–2173.
  3. Hategan A.P., R. Law, S. Kahn, D.E. Discher, Adhesively–tensed cell membranes: lysis kinetics and atomic force microscopy probing, *Biophysical Journal* 85(4) (2003) 2746–2759.
  4. Minerick A.R., R.H. Zhou, P. Takhistov, H.-C. Chang, Manipulation and characterization of red blood cells with alternating current fields in microdevices, *Electrophoresis* 24(21) (2003) 3703–3717.
  5. Zhou R., D. Lastochkin, H.-C. Chang, Anomalous capillary wetting dynamics of blood suspensions, *Proceedings of the Second International Conference on Microchannels and Minichannels (ICMM2004)* (2004) 911–916.



6. Zhangyong L., L. Biao, X. Zhengxiang, Extracting and analyzing sub-signals in heart rate variability, *Colloids Surfaces B* 42(2) (2005) 131–135.
  7. Zhou R., H.-C. Chang, Capillary penetration failure of blood suspensions, *J. Colloid Interface Sci.* 287(2) (2005) 647–656.
  8. Pawlowski P.H., B. Burzynska, P. Zielenkiewicz, Theoretical model of reticulocyte to erythrocyte shape transformation, *J. Theoretical Biology* 243(1) (2006) 24–38.
  9. Zhou R., J. Gordon, A.F. Palmer, H.-C. Chang, Role of erythrocyte deformability during capillary wetting, *Biotechnology Bioengineering* 93(2) (2006) 201–211.
  10. Jayathilake P.G., B.C. Khoo, Z. Tan, Capsule-substrate adhesion in the presence of osmosis by the immersed interface method, *Proceedings of World Academy of Science, Engineering and Technology* 60 (2009) 460–469.
  11. Jayathilake P.G., B.C. Khoo, Z. Tan, Effect of membrane permeability on capsule substrate adhesion: Computation using immersed interface method, *Chemical Engineering Science* 65(11) (2010) 3567–3578.
  12. Brody M.D., J.D. Halderman, B. Parikh, J. Stone, Automated system to created a cell smear, US Patent US20130137137 A1, 2011.
  13. Jayathilake P.G., B.C. Khoo, Z. Tan, Capsule-substrate adhesion in the presence of osmosis by the immersed interface method, *World Academy of Science, Engineering and Technology* 60 (2011) 460–469.
  14. Jayathilake P.G., G. Liu, Z. Tan, B.C. Khoo, Numerical study of a permeable capsule under Stokes flows by the immersed interface method, *Chemical Engineering Science* 66(10) (2011) 2080–2090.
  15. Li S., J.S. Marshall, G. Liu, Q. Yao, Adhesive particulate flow: The discrete-element method and its application in energy and environmental engineering, *Progress in Energy and Combustion Science* 37(6) (2011) 633–668.
  16. Marshall J.S., J.K.W. Chesnutt, H.S. Udaikumar, Mesoscale analysis of blood flow, *Image-Based Computational Modeling of Human Circulatory and Pulmonary Systems*, 2011, 235–266.
  17. Thomassen L.C.J., V. Rabolli, K. Masschaele, G. Alberto, M. Tomatis, M. Ghiazza, F. Turci, E. Breynaert, G. Martra, C.E.A. Kirschhock, J.A. Martens, D. Lison, B. Fubini, Model system to study the influence of aggregation on the hemolytic potential of silica nanoparticles, *Chemical Research in Toxicology* 24(11) (2011) 1869–1875.
  18. Dodson W.R., P. Dimitrakopoulos, Tank-treading of swollen erythrocytes in shear flows, *Physical Review E* 85(2) (2012) Art. 021922.
  19. Marshal J.C., S. Li, Adhesive particle flow: A discrete element approach, *Winter Conditions in Six European Shallwo Lakes*, 2012, 1–342.
  20. Jhong J.-F., A. Venault, L. Liu, J. Zheng, S.-H. Chen, A. Higuchi, J. Huang, Y. Chang, Introducing mixed-charge copolymers as wound dressing biomaterials, *ACS Applied Materials and Interfaces* 6(12) (2014) 9858–9870.
  21. Xu Z., Y. Zheng, X. Wang, N. Shehata, C. Wang, S. Xie, Y. Sun, Stiffening of sickle cell trait red blood cells under simulated strenuous exercise conditions, *Microsystems and Nanoengineering* 2 (2016) 16061.
  22. Xu Z., Mechanical characterization of red blood cells using microfluidic devices, PhD Thesis, University of Toronto, 2017.
  23. Chakroborty S., Electrokinetics with blood, *Electrophoresis* 40 (2019) 180–189.
  24. Xu Z., W. Dou, C. Wang, Y. Sun, Stiffness and ARP recovery of stored red blood cells in serum, *Microsystems and Nanoengineering* 5 (2019) 51.
  25. Mukhopadhyay M., R. Ray, M. Ayushman, P. Sood, M. Bhattacharyya, D. Sarkar, S. DasGupta, Interfacial energy driven distinctive pattern formation during the drying of blood droplets, *Journal of Colloid and Interface Science* 573 (2020) 307–316.
  26. Liu Y., F. Xin, Nonlinear large deformation of a spherical red blood cell induced by ultrasonic standing wave, *Biomechanics and Modeling in Mechanobiology* 21 (2022) 589–604.
  27. Liu Y., F. Xin, Deformation dynamics of spherical red blood cells in viscous fluid driven by ultrasound, *Physics of Fluids* 35 (2023) 012011.
- 83 D.S. Valkovska, P.A. Kralchevsky, K.D. Danov, G. Broze, A. Mehreteab, The effect of oil solubility on the oil drop entry at water–air interface, *Langmuir* 16 (2000) 8892–8902. (брой: 12)**
1. Hadjiiski, A., Tcholakova, S., Denkov, N. D., Effect of Oily Additives on Foamability and Foam Stability. 2. Entry Barriers. *Langmuir* 17(22) (2001) 7011–7021.
  2. Binks B.P., P.D.I. Fletcher, M.D. Haynes, Anti-foam action of oil vapors, *Colloids Surfaces A* 216(1–3) (2003) 1–8.
  3. Knulst J.C., D. Rosenberger, B. Thompson, J. Paatero, Intensive see surface microlayer investigations of open leads in the pack ice during Arctic Ocean 2001 Expedition, *Langmuir* 19(24) (2003) 10194–10199.

4. Denkov N.D., Mechanisms of foam destruction by oil-based antifoams, *Langmuir* 20(22) (2004) 9463–9505.
5. Denkov N.D., K. Marinova, Antifoam effects of solid particles, oil drops and oil-solid compounds in aqueous foams, in: *colloidal Particles at Liquid Interfaces*, Cambridge University Press, 2006, Ch. 10.
6. Martensson Ellinor, Foaming in Apple Wine, Thesis, Linnaeus University, Faculty of Science and Engineering, Linnaeus, Sweden, 2010.
7. Karakashev S.I., M.V. Grozdanova, Foams and antifoams, *Advances in Colloid and Interface Science* 176–177 (2012) 1–17.
8. Gao F., H. Yan, Q. Wang, S. Yuan, Mechanism of foam destruction by antifoams: A molecular dynamics study, *Physical Chemistry Chemical Physics* 16(32) (2014) 17231–17237.
9. Arrabito G., V. Errico, A. De Ninno, F. Cavaleri, V. Ferrara, B. Pignataro, F. Caselli, Oil-in-water oil droplets by interfacial spontaneous fragmentation and their electrical characteristics, *Langmuir* 35(14) (2019) 4936–4945.
10. Qi N., Z. Chen, H. Zhao, Q. Wang, H. Chen, H. Yuan, Y. Li, Predicting and controlling the effect of solubilized flavor oil on foam properties of surfactant through study of the adsorption activity and configuration, *Journal of Surfactants and Detergents* 23 (2020) 347–358.
11. Zhang Z., M. Qiao, H. Zhao, Q. Ran, S. Yuan, Effect of mixed surfactants on foam stabilization: A molecular dynamics simulation, *Journal of Molecular Liquids* 365 (2022) 120096.
12. Grossi M., B. Fang, J. Rao, B. Chen, Discovering novel cryo-oleofoams with excellent overrun: Synergistic effect between zein and monoglyceride at interface, *Food Hydrocolloids* 150 (2024) 109690.

**82 K.D. Danov, R. Dimova, B. Pouligny, Viscous drag of a solid sphere straddling a spherical or flat surface, *Phys. Fluids* 12(11) (2000) 2711–2722. (брой: 84)**

1. Kumar P.B.S., G. Gompper, R. Lipowsky, Binding dynamics of multicomponent membranes, *Phys. Rev. Lett.* 86(17) (2001) 3911–3914.
2. Petkov J., N.D. Denkov, Dynamics of particles on interfaces and thin liquid films, In: *Encyclopedia of Surface and Colloid Science*, A. Hubbard, Ed.; Marcel Dekker, New York, 2001.
3. Casner A., Déformations, manipulations et instabilités d'interfaces liquides induites par la pression de radiation d'une onde laser, PhD Thesis, Université Sciences et Technologies – Bordeaux, 2002.
4. Sickert M., F. Rondelez, Shear viscosity of Langmuir monolayers in the low-density limit, *Phys. Rev. Lett.* 90(12) (2003) 126104.
5. Vella D., H.Y. Kim, L. Mahadevan, The wall-induced motion of a floating flexible train, *J. Fluid Mech.* 502 (2004) 89–98.
6. Allain J.M., Instabilités des membranes lipidiques inhomogènes. Implications biologiques, PhD Thesis, Université Denis Diderot – Paris VII, 2005.
7. Vassileva N.D., D. van den Ende, F. Mugele, J. Mellema, Capillary forces between spherical particles floating at a liquid–liquid interface, *Langmuir* 21(24) (2005) 11190–11200.
8. Vella D., L. Mahadevan, The "Cheerios effect", *Am. J. Phys.* 73(9) (2005) 817–825.
9. Fischer T.M., P. Dhar, P. Heinig, The viscous drag of spheres and filaments moving in membranes or monolayers, *J. Fluid Mech.* 558 (2006) 451–475.
10. Vassileva N.D., Behavior of Two-Dimensional Aggregates in Shear Flow, PhD Thesis, Group of Complex Fluids, University of Twente, The Netherlands, August 2006.
11. Wu C.Y., S. Tarimala, L.L. Dai, Dynamics of charged microparticles at oil–water interfaces, *Langmuir* 22(5) (2006) 2112–2116.
12. Pozrikidis C., Particle motion near and inside an interface, *J. Fluid Mech.* 575 (2007) 333–357.
13. Chen W., P. Tong, Short-time self-diffusion of weakly charged silica spheres at aqueous interfaces, *Europhysics Letters* 84(2) (2008) 28003.
14. Dai L.L., S. Tarimala, C.Y. Wu, S. Guttula, J. Wu, The structure and dynamics of microparticles at pickering emulsion interfaces, *Scanning* 30(2) (2008) 87–95.
15. Dhar P., Autonomous and guided motion of active components at interfaces, PhD Thesis, Department of Chemistry and Biochemistry, Florida State University, 2008.
16. Arroyo M., A. Desimone, Relaxation dynamics of fluid membranes, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 79(3) (2009) 031915.
17. Mabrouk E., D. Cuvelier, L.L. Pontani, B. Xu, D. Levy, P. Keller, F. Brochard-Wyart, P. Nassoy, M.H. Li, Formation and material properties of giant liquid crystal polymersomes, *Soft Matter* 5(9) (2009) 1870–1878.
18. Wu C.-Y., Particle dynamics and microrheology, PhD Thesis, Chemical Engineering, Texas Tech University, 2009.

19. Aliaskariso S., P. Tierno, P. Dhar, Z. Khatarri, M. Blaszczyński, T.M. Fisher, On the diffusion of circular domains on a spherical vesicle, *J. Fluid Mechanics* 654 (2010) 417–451.
20. Arroyo M., DeSimone A., L. Heltai, the role of membrane viscosity in the dynamics of fluid membranes, Cornell University, 2010, 1007.4934.
21. Maestro A., L.J. Bonales, H. Ritacco, R.G. Rubio, F. Ortega, Effect of the spreading solvent on the three-phase contact angle of microparticles attached at fluid interfaces, *Physical Chemistry Chemical Physics* 12(42) (2010) 14115–14120.
22. Mashayek A., C. Pozrikidis, Motion of a spherical particle inside a liquid film, *Acta Mechanica* 210(1–2) (2010) 27–46.
23. Murakami D., U. Langer, Z. Khatarri, T.M. Fischer, Fluorinated Langmuir monolayers are more viscous than non-fluorinated monolayers, *Journal of Physical Chemistry B* 114(16) (2010) 5376–5379.
24. Ortega F., H. Ritacco, R.G. Rubio, Interfacial microrheology: particle tracking and related techniques, *Current Opinion in Colloid and Interface Science* 15(4) (2010) 237–245.
25. Yang F.-L., A formula for the wall-amplified added mass coefficient for a solid sphere in normal approach to a wall and its application for such motion at low Reynolds number, *Physics of Fluids* 22(12) (2010) 123303.
26. Bonales L.J., A. Maestro, R.G. Rubio, F. Ortega, Microrheology of complex fluids, In: H. Schulz, Ed., *Hydrodynamics: Advanced Topics*, InTech, 2011, Ch. 7.
27. Erni P., Deformation modes of complex fluid interfaces, *Soft Matter* 7(17) (2011) 7586–7600.
28. Botto L., E.P. Lewandowski, M. Cavallaro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
29. Pozrikidis C., Capillary attraction of floating rods, *Engineering Analysis with Boundary Elements* 36(5) (2012) 836–844.
30. Honerkamp-Smith A.R., F.G. Woodhouse, V. Kantsler, R.E. Goldstein, Membrane viscosity determined from shear-driven flow in giant vesicles, *Physical Review Letters* 111 (2013) 038103.
31. Sinha A., A.K. Mollah, S. Hardt, R. Ganguly, Particle dynamics and separation at liquid-liquid interfaces, *Soft Matter* 9(22) (2013) 5438–5447.
32. Boatwright T., M. Dennin, R. Shlomovitz, A.A. Evans, A.J. Levine, Probing interfacial dynamics and mechanics using submerged particle microrheology: II. Experiment, *Physics of Fluids* 26 (2014) 071904.
33. Memdoza A.J., E. Guzman, F. Martinez-Pedrero, H. Ritacco, R.G. Rubio, F. Ortega, V.M. Starov, R. Miller, Particle laden fluid interfaces: dynamics and interfacial rheology, *Advances in Colloid and Interface Science* 206 (2014) 303–319.
34. Van Gorkom A.J.M., Liquid-liquid interfaces in interaction with colloidal particles: Brownian motion study, PhD Thesis, Eindhoven University of Technology, 2014.
35. Petkov P.V., B. Radoev, Statics and dynamics of capillary bridges, *Colloid Surface A* 460 (2014) 18–27.
36. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, *Langmuir* 31(49) (2015) 13290–13302.
37. Petkov J.T., N.D. Denkov, Thin liquid films and interfaces: particle dynamics, in: *Encyclopedia of Surface and Colloid Science*, 2015, 7399–7414.
38. Stone H., H. Masoud, Mobility of membrane-trapped particles, *Journal of Fluid Mechanics* 781 (2015) 494–505.
39. Schenck D.M., Submersion and lateral transport behavior of microparticles at a lung surfactant interface on model mucus hydrogels, PhD Thesis, University of Iowa, 2015.
40. Debus J.D., M. Mendoza, S. Succi, H.J. Herrmann, Poiseuille flow in curved space, *Physical Review E* 93 (2016) 043316.
41. Lagubeau G., G. Grosjean, A. Darras, G. Lumay, M. Hubert, N. Wandewalle, Statics and dynamics of magnetocapillary bonds, *Physical Review E* 93(5) (2016) 053117.
42. Rahmani A.M., A. Wang, V.N. Manoharan, C.E. Colosqui, Colloidal particle adsorption at liquid interfaces: Capillary driven dynamics and thermally activated kinetics, *Soft Matter* 12(30) (2016) 6365–6372.
43. Saranjam N., S. Chandra, Bubble clustering in drying paint films, *Industrial and Engineering Chemistry Research* 55(50) (2016) 12825–12835.
44. Yang J., J. Zhao, When does a diblock copolymer probe the interfacial rheology effect? *Science China Chemistry* 59(10) (2016) 1330–1334.
45. Debus J.-D., M. Mendoza, S. Succi, H.J. Herrmann, Energy dissipation in flows through curved spaces, *Scientific Reports* 7 (2017) 42350.
46. Fujii S., Smart polymer particles as particulate emulsifier, *Journal of the Adhesion Society of Japan* 43(2) (2017) 64–71.

47. Koplik J., C. Maldarelli, Diffusivity and hydrodynamic drag of nanoparticles at a vapor-liquid interface, *Physical Review Fluids* 2(2) (2017) 024303.
48. Vidal A., L. Botto, Slip flow past a gas-liquid interface with embedded solid particles, *Journal of Fluid Mechanics* 813 (2017) 152–174.
49. Van der Wel C., D. Heinrich, D.J. Kraft, Microparticle assembly pathway on lipid membranes, 113(5) (2017) 1037–1046.
50. Das S., J. Koplik, R. Farinato, D.R. Nagaraj, C. Maldarelli, P. Somasundaran, The translation and rotational dynamics of a colloid moving along the air-liquid interface of a thin film, *Scientific Reports* 8 (2018) 8910.
51. Guzman E., J. Tajuelo, J.M. Pastor, M.A. Rubio, F. Ortega, R.G. Rubio, Sgear rheology of fluid interfaces: Closing the gap between macro- and micro-rheology, *Current Opinion in Colloid and Interface Science* 37 (2018) 33–48.
52. Grosjean G., Magnetocapillary self-assemblies: Interfacial locomotion at low Reynolds number, PhD Thesis, Liege University, 2018.
53. Gu C., Development of a fast simulation method for particle-laden fluid interfaces and selected applications to problems involving drops, PhD Thesis, Queen Mary University, London, 2018.
54. Hauser A.W., S. Sundaram, R.C. Hayward, Photothermocapillary oscillators, *Physical Review Letters* 121 (2018) 158001.
55. Федорович М.И., Анализ течений в тонких слоях вискозных жидкостей, Дисертация, Санкт-Петербургский НИУ информационных технологий, 2018.
56. Gans A., E. Dressaire, B. Colnet, G. Saingier, M.Z. Bazant, A. Sauret, Dip-coating of suspensions, *Soft Matter* 15(2) (2019) 252–261.
57. Kouplik J., C. Maldarelli, Molecular dynamics study of the translation and rotation of amphiphilic Janus nanoparticles at a vapor-liquid interface, *Physical Review Fluids* 4(4) (2019) 044201.
58. Stocco A., B. Chollet, X. Wang, C. Blanc, M. Nobili, Rotational diffusion of partially wetted colloids at fluid interfaces, *Journal of Colloid and Interface Science* 542 (2019) 363–369.
59. Laal-Dehghani N., G.F. Christopher, 2D stokesian simulation of particle aggregation at quiescent air/oil-water interfaces, *Journal of Colloid and Interface Science* 553 (2019) 259–268.
60. Grosjean G., Magnetocapillary self-assembly. Interfacial locomotion at low Reynolds numbers, PhD Thesis, Liege University, 2019.
61. Gu C., L. Botto, FIPI: A fast numerical method for the simulation of particle-laden fluid interfaces, *Computer Physics Communications* 256 (2020) 107447.
62. Loudet J.-C., M. Qiu, J. Hemauer, J.J. Feng, Drag force on a particle straddling a fluid interface: influence of interfacial deformation, *The European Physical Journal E* 43 (2020) 13.
63. Melikhov I.F., I.Y. Popov, Model of cell membrane in ultrasonic field, *Chinese Journal of Physics* 65 (2020) 334–340.
64. Saad E.J., M.S. Faltas, Thermophoresis of a spherical particle straddling the interface of a semi-infinite micropolar fluid, *Journal of Molecular Liquids* (2020) 113289.
65. Wang D., Y.-L. Zhu, Y. Zhao, C. Li, A. Mukhopadhyay, Z.-Y. Sun, K. Koynov, H.-J. Butt, Brownian diffusion of individual Janus nanoparticles at water/oil interfaces, *ACS Nano* 14 (2020) 10095–10103.
66. Das S., J. Koplik, P. Somasundaran, C. Maldarelli, Pairwise hydrodynamic interactions of spherical colloids at a gas-liquid interface, *Journal of Fluid Mechanics* 915 (2021) A99.
67. Faltas M.S., H.H. Sherief, A.A. Allam, B.A. Ahmed, Mobilities of a spherical particle straddling the interface of a semi-infinite brinkman flow, *Journal of Fluid Engineering, Transactions of the ASME* 143 (2021) 071402.
68. Hemauer J., M. Qiu, J.J. Feng, J.-C. Loudet, Particle rotation speeds up capillary interactions, *European Physical Journal E* 44 (2021) 30.
69. Hu Y., P. Vlahovska, M.J. Miksis, Aelectrohydrodynamic assembly of colloidal particles on a drop interface, *Mathematical Biosciences and Engineering* 18 (2021) 2357–2371.
70. Jaensson N.O., P.D. Anderson, J. Vermant, Computational interfacial rheology, *Journal of non-Newtonian Fluid Mechanics* 290 (2021) 104507.
71. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
72. Nagao M., E.G. Kelley, A., Faraone, M. Saito, Y. Yoda, M. Kurokuzo, S. Takata, M. Seto, P.D. Butler, Relationship between viscosity and alkyl tail dynamics in lipid bilayers, *Physical Review Letters* 127 (2021) 078102.
73. Pourali M., M. Kroger, J. Vermant, P.D. Anderson, N.O. Jaensson, Drag on a spherical particle at the air-liquid interface: Interplay between compressibility, Marangoni flow, and surface viscosities, *Physics of Fluids* 33 (2021) 062103.



74. Sanchez-Puga P., J. Tajuelo, J.M. Pastor, M.A. Rubio, Flow field-based data analysis in interfacial shear rheometry, *Advances in Colloid and Interface Science* 288 (2021) 102322.
  75. Sharma V., Dynamics of Janus colloids interacting with giant lipid vesicle, PhD Thesis, Srasbourg University, 2021.
  76. Dani A., Y. Mohsen, C. Maldareli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
  77. Denk J., M. Molaei, N.G. Chisholm, T. Yao, A. Read, K.J. Stebe, Active colloids on fluid interfaces, *Current Opinion in Colloid and Interface Science* 61 (2022) 101629.
  78. Loudet J.-C., A. Choudhury, M. Qiu, J.J. Feng, Particle trapped at the isotropic-nematic liquid crystal interface: Elastocapillary phenomena and drag forces, *Physical Review E* 105 (2022) 044607.
  79. Puga P.S., Reología interfacial de cizalla. Nuevos esquemas de análisis de datos y su aplicación al estudio de monocapas de Langmuir de cidos grasos, PhD Thesis, UNED, 2022.
  80. Zhou Z., P.M. Vlahovska, M.J. Miksis, Drag force on spherical particles trapped at a liquid interface, *Physical Review Fluids* 7 (2022) 124001.
  81. Ganesh S.C., J. Koplik, J.F. Morris, C. Maldarelli, Dynamics of a surface tension driven colloidal motor based on an active2 Janus particle encapsulated in a liquid drop, *Journal of Fluid Mechanics* 958 (2023) A12.
  82. Protiere S., Particle rafts and armored droplets, *Annual Review of Fluid Mechanics* 55 (2023) 459–480.
  83. Sharma V, F. Fessler, F. Thalmann, C.M. Marques, A. Stocco, Rotational and translational drags of a Janus particle close to a wall and a lipid membrane, *Journal of Colloid and Interface Science* 652 (2023) 2159–2166.
  84. Tarr S.W., J.S. Brunner, D. Soto, D.I. Goldman, Probing Hydrodynamic Fluctuation-Induced Forces with an Oscillating Robot, *Physical Review Letters* 132 (2024) 084001.
- 81 D.S. Valkovska, K.D. Danov, I.B. Ivanov, Effect of surfactants on the stability of films between two colliding small bubbles, *Colloids Surfaces A* 175 (2000) 179–192. (брой: 51)**
1. Kovalchuk V.I., E.K. Zholkovskiy, N.P. Bondarenko, D. Vollhardt, Dissociation of fatty acid and counterion binding at the Langmuir monolayer deposition: theoretical considerations, *J. Phys. Chem. B* 105(38) (2001) 9254–9265.
  2. Yeo L.Y., O.K. Matar, E.S.P. de Ortiz, G.F. Hewitt, The dynamics of Marangoni-driven local film drainage between two drops, *J. Colloid Interface Sci.* 241(1) (2001) 233–247.
  3. Von Klitzing R., H.-J. Muller, Film stability control, *Curr. Opin. Colloid Int. Sci.* 7(1–2) (2002) 42–49.
  4. Yeo L.Y., O.K. Matar, E.S. Perez de Ortiz, G.F. Hewitt, Film drainage between two surfactant-coated drops colliding at constant approach velocity, *J. Colloid Interface Sci.* 257(1) (2003) 93–107.
  5. Cristini V., Y.-C. Tan, Theory and numerical simulation of droplet dynamics in complex flows – a review, *Lab on a Chip* 4(4) (2004) 257–264.
  6. Kapilashrami A., K. Eskilsson, L. Bergström, M. Malmsten, Drying of oil-in-water emulsions on hydrophobic and hydrophilic substrates, *Colloids Surfaces A* 233(1–3) (2004) 155–161.
  7. Leal L.G., Flow induced coalescence of drops in a viscous fluid, *Phys. Fluids* 16(6) (2004) 1833–1851.
  8. Neumann B., B. Vincent, R. Krustev, H.-J. Müller, Stability of various silicone oil/water emulsion films as a function of surfactant and salt concentration, *Langmuir* 20(11) (2004) 4336–4344.
  9. Stancik E.J., M. Kouhkan, G.G. Fuller, Coalescence of particle-laden fluid interfaces, *Langmuir* 20(1) (2004) 90–94.
  10. Tan S.N., D. Fornasiero, R. Sedev, J. Ralston, The interfacial conformation of polypropylene glycols and foam behaviour, *Colloids Surfaces A* 250(1–3) (2004) 307–315.
  11. Lee J., S. Kentish, T.J. Matula, M. Ashokkumar, Effect of surfactants on inertial cavitation activity in a pulsed acoustic field, *J. Phys. Chem. B* 109(35) (2005) 16860–16865.
  12. Lee J., S.E. Kentish, M. Ashokkumar, The effect of surface-active solutes on bubble coalescence in the presence of ultrasound, *J. Phys. Chem. B* 109(11) (2005) 5095–5099.
  13. Ravera F., M. Ferrari, E. Santini, L. Liggieri, Influence of surface processes on the dilational visco-elasticity of surfactant solutions, *Adv. Colloid Interface Sci.* 117(1–3) (2005) 75–100.
  14. Beneviti D., M.N. Belgacem, B. Carre, Influence of surfactant structure on bubble size and foaming in bubble columns: focus on flotation de-inking, *Nordic Pulp and Paper Research Journal* 21(5) (2006) 702–709.
  15. Gramlich C., G.M. Homsy, Linear stability of an expanding spherical liquid film, *Colloids Surfaces A* 282–283 (2006) 11–23.
  16. Jang S.S., W.A. Goddard III, Structures and properties of newton black films characterized using molecular dynamics simulations, *J. Phys. Chem. B* 110(15) (2006) 7992–8001.

17. Janssen P.J.A., P.D. Anderson, W.M. Peters, H.E.H. Meijer, Axisymmetric boundary integral simulations of film drainage between two viscous drops, *J. Fluid Mechanics* 567 (2006) 65–90.
18. Kralchevsky P.A., N.D. Denkov, Ivan B. Ivanov: remarkable figure in colloid science, *Colloids Surfaces A* 282–283 (2006) 1–7.
19. Narsimhan G., G. Wang, Rupture of equilibrium foam films due to random thermal and mechanical perturbations, *Colloids Surfaces A* 282–283 (2006) 24–36.
20. Hannisdal A., R. Orr, J. Sjoblom, Viscoelastic properties of crude oil components at oil–water interfaces. 2: Comparison of 30 oils, *J. Dispersion Sci. Technology* 28(3) (2007) 361–369.
21. Karakashev S.I., A.V. Nguyen, Effect of sodium dodecyl sulphate and dodecanol mixtures on foam film drainage: examining influence of surface rheology and intermolecular forces, *Colloids Surfaces A* 293(1–3) (2007) 229–240.
22. Santini E., L. Liggieri, L. Sacca, D. Clausse, F. Ravera, Interfacial rheology of Span 80 adsorbed layers at paraffin oil–water interface and correlation with the corresponding emulsion properties, *Colloids Surfaces A* 309(1–3) (2007) 270–279.
23. Beneventi D., J. Allix, E. Zeno, P. Nortier, Influence of surfactant concentration on the ink removal selectivity in a laboratory flotation column, *International Journal of Mineral Processing* 87(3–4) (2008) 134–140.
24. Karakashev S.I., E.D. Manev, A.V. Nguyen, Effect of double-layer repulsion on foam film drainage, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 319(1–3) (2008) 34–42.
25. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
26. Bastani D., A. Baghaei, A. Sarrafi, “Bubble bunch” phenomena in orientation of a bubble column, *Central European Journal of Chemistry* 7(4) (2009) 803–808.
27. Interfacial Rheology, R. Miller and L. Liggieri Eds., Ch. 5, 2009.
28. Narsimhan G., Stability of thin emulsion film between two oil phases with a viscoelastic liquid–liquid interface, *J. Colloid Interface Sci.* 330 (2009) 494–500.
29. Beneveti D., O. Baudouin, P. Noriter, Semi-empirical modelling and menagment of flotation deinking banks by process simulations, in: *Source: Process Menagenets*, 2010, Ch. 7.
30. Grimes B.A., C.A. Dorao, S. Simon, E.L. Nordgard, J. Soblom, Analysis of dynamic surfactant mass transfer and its relationship to the transient stabilization of coalescing liquid–liquid dispersions, *J. Colloid Interface Sci.* 348(2) (2010) 479–490.
31. Kalogiani E.P., E.–M. Varka, T.D. Karapantsios, M. Kostoglou, E. Santini, L. Liggieri, F. Ravera, A multi-probe non-intrusive electrical technique for monitoring emulsification of hexane–in–water with the emulsifier C10E5 soluble in both phases, *Colloid Surfaces A* 354(1–3) (2010) 353–363.
32. Miller C.A., Behavior of emulsions and microemulsions, in *Nanoscience. Colloidal and Interfacial Aspects*, V.M. Starov Ed., CRC Press, Boca Raton, FL, 2010, Ch. 17.
33. Allix J., E. Zeno, P. Nortier, D. Beneventi, Roles of surfactant and fibres on fibre transport in a small flotation deinking column, *Chemical Engineering Journal* 168(2) (2011) 525–534.
34. Liggieri L., M. Ferrari, F. Ravera, Recent developments in dilatational viscoelasticity of surfactant layers, *Colloid Stability: The Role of Surface Forces*, Part II, 2 (2011) 313–344.
35. Zinchenko A.Z., M.A. Rother, Davis R.H., Gravity-induced collisions of spherical drops covered with compressible surfactant, *J. Fluid Mechanics*, 667 (2011) 369–402.
36. Bournival G., R.J. Pugh, S. Ata, Examination of NaCl and MIBC as bubble coalescence inhibitor in relation to froth flotation, *Minerals Engineering* 25(1) (2012) 47–53.
37. Bournival G., S. Ata, G.I. Jameson, Frother study through binary coalescence of bubbles, 26th International Mineral Processing Congress, IMPC 2012: Innovative Processing for Sustainable Growth - Conference Proceedings (2012) 630–640.
38. Chevallier E., Cascade d’effets induits par la lumiere aux interfaces liquides, PhD Thesis, Pierre and Marie Curie University, 2013.
39. Friberg S.E., S.H. Friberg, Emulsion formation, in: *Encyclopedia of of Colloid and Interface Science* 2013, 366–414.
40. Reichert M.D., L.M. Walker, Interfacial tension dynamics, interfacial mechanics, and response to rapid dilution of bulk surfactant of a model oil-water-dispersand system, *Langmuir* 29(6) (2013) 1857–1867.
41. Sjoblom J., P. Stenius, S. Simon, B.A. Grimes, Emulsion stabilization, in: T. Tadros, Ed., *Emcyclopedia of Colloid and Interface Science*, Springer-Verlag, 2013, 415–454.
42. Alexandrova S., Film drainage and coalescence of drops in the presence of surfactants, *Journal of Chemical Technology and Metallurgy* 49(4) (2014) 321–328.
43. Reichert M.D., I.M. Walker, Coalescence behavior of oil droplets coated in irreversibly-adsorbed surfactant layers, *Journal Colloid Interface Science* 449 (2015) 480–487.

44. Bazhlevkov I., D. Vasileva, Numerical modeling of drop coalescence in the presence of soluble surfactants, *Journal of Computational and Applied Mathematics* 293 (2016) 7–19.
  45. Narsimhan G., Characterization of interfacial rheology of protein-stabilized air-liquid interfaces, *Food Engineering Reviews* 8(3) (2016) 367–392.
  46. Bournival G., S. Ata, G.J. Jameson, Bubble and froth stabilizing agents in froth flotation, *Muneral Processing and Extractive Metallurgy Review* 38(6) (2017) 366–387.
  47. Karakashev S.I., Hydrodynamics of foams, *Experiments in Fluids* 58 (2017) 91.
  48. Petkova B., S. Tcholakova, M. Chenkova, K. Golemanov, D. Throley, S. Stoyanov, Foamibility of aqueous solutions: Role of surfactant type and concentration, *Advances in Colloid and Interface Science* 276 (2020) 102084.
  49. Liggieri L., M. Ferrari, F. Ravera, Recent developments in dilatational viscoelasticity of surfactant layers, *Colloids and Interface Science Series* 6 (2014) 313–344.
  50. Singh N., V. Narsimhan, Impact of surface rheology on droplet coalescence in uniaxial compressional flow, *Physical Review Fluids* 8 (2023) 083602.
  51. Singh N., V. Narsimhan, Effect of Droplet Viscosity Ratio and Surfactant Adsorption on the Coalescence of Droplets with Interfacial Viscosity, *Fluids* 9 (2024) 48.
- 80 K.D. Danov, V.L. Kolev, P.A. Kralchevsky, G. Broze, A. Mehreteab, Adsorption kinetics of ionic surfactants after a large initial perturbation. Effect of surface elasticity, *Langmuir* 16 (2000) 2942–2956. (брой: 22)**
1. Daniel R., J.C. Berg, Diffusion-controlled adsorption at the liquid–air interface: the long-time limit, *J. Colloid Interface Sci.* 237(2) (2001) 294–296.
  2. Gilanyi T., R. Meszaros, I. Varga, Adsorption of cationic surfactants at air/solution interface, *Magy. Kem. Foly.* 107(11) (2001) 476–484.
  3. Marinova K.G., N.D. Denkov, Foam destruction by mixed solid–liquid antifoams in solutions of alkyl glucoside: electrostatic interactions and dynamic effects, *Langmuir* 17(8) (2001) 2426–2436.
  4. Tewes F., F. Boury, Formation and rheological properties of the supercritical CO<sub>2</sub> – water pure interface, *J. Phys. Chem. B* 109(9) (2005) 3990–3997.
  5. Moorkanikara S.N., Development of novel methodologies to analyze the adsorption kinetics of nonionic surfactants, PhD Thesis, MIT, 2007.
  6. Song S.L., Z.G. Hu, Q.K. Wang, G. Cheng, X.H. Liu, Physicochemical properties and surface tension prediction of mixed surfactant systems: Triton X–100 with dodecylpyridinium bromide and Triton X–100 with sodium dodecylsulfonate, *Journal of Dispersion Science and Technology* 29(5) (2008) 763–768.
  7. Fainerman V.B., E.V. Aksenenko, A.V. Mys, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of mixed SDS/C<sub>12</sub>EO<sub>8</sub> solutions. 3. Dynamics of adsorption and surface dilatational rheology of micellar solutions, *Langmuir* 26(4) (2010) 2424–2429.
  8. Klapper P., Tensiometrische Stofftransportuntersuchungen der Zinkextraktion mit dem Kationenaustauscher Di(2-ethylhexyl)phosphorsäure, PhD Thesis, TU Bergakademie Freiberg, Germany, 2010.
  9. Chang C.-C., Adsorption kinetics of dioctyl sodium sulfosuccinate in aqueous NaCl solution, MSc. Thesis, National Taiwan University of Science and Technology, 2012.
  10. Le N.G., Influence of molecular structure on the adsorption of surfactants at water/air interface, PhD Thesis Department of Chemistry, Curtin University, 2012.
  11. Liao Y.-C., Adsorption kinetics of sodium dodecylsulfate aqueous solution with NaCl, MSc. Thesis, National Taiwan University of Science and Technology, 2012.
  12. Kuo C.-C., A theoretical study of ionic surfactant adsorption kinetics, MSc. Thesis, National Taiwan University of Science and Technology, 2013.
  13. Lin C.-H., A study on the adsorption kinetics of ionic surfactants and evaporation behavior of sessile drop, MS Thesis, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2014.
  14. Onaizi S.A., M.S. Nasser, F. Twaiq, Adsorption and thermodynamics of biosurfactant, surfactin, monolayers at the air-buffered liquid interface, *Colloid and Polymer Science* 292(7) (2014) 1649–1656.
  15. Lin Y.-C., A study of the adsorption kinetics of decanoic acid and dodecylamine, MSc Thesis, National Taiwan University of Science and Technology, 2015.
  16. Sett S., S.I. Karakashev, S.K. Smoukov, A.I. Yarin, Ion-specific effects in foams, *Advances in Colloid and Interface Science* 225 (2015) 98–113.
  17. Hristov J., A unified nonlinear fractional equation of the diffusion-controlled surfactant adsorption: Reappraisal and new solution of the Ward-Tordai problem, *Journal of King Saud University – Science* 28(1) (2016) 7–13.

18. Zeng Y.-H., Advancing/receding contact angles measurements and the adsorption kinetics of ionic surfactants, MSc Thesis, National Taiwan University of Science and Technology, 2016.
19. Bazhlekova I., E. Bazhlekova, Fractional derivative model for diffusion controlled adsorption at liquid/liquid interface, AIP Conference Proceedings Vol. 2048 (2018) 050012.
20. Onaizi S.A., Dynamic surface tension and adsorption mechanism of surfactin biosurfactant at the air–water interface, European Biophysics Journal 47 (2018) 631–640.
21. Firouzi M., V.I. Kovalchuk, G. Loglio, R. Miller, Salt effect on the dilatational viscoelasticity of surfactant adsorption layers, Current Opinion in Colloid and Interface Science 57 (2022) 101538.
22. Liu Q., Z. Chen, Z. Chen, Y. Yang, L. Chi, Rheology, bubble-particle interaction and air bubble system: A study of the influence of inorganic salts on air entrainment by bubble rising measurement, Cement and Concrete Research 173 (2023) 107265.

**79 D.S. Valkovska, K.D. Danov, Determination of bulk and surface diffusion coefficients from experimental data for thin liquid film drainage, J. Colloid Interface Sci. 223 (2000) 314–316. (брой: 42)**

1. Stoyanov S.D., N.D. Denkov, Role of surface diffusion for the drainage and hydrodynamic stability of thin liquid films, Langmuir 17 (2001) 1150–1156.
2. Liggieri L., F. Ravera, M. Ferrary, Surface rheology investigation of the 2–D phase transition in n–dodecanol monolayers at the water–air interface, Langmuir 19(24) (2003) 10233–10240.
3. Figuas M., L. Ka’ahue, Oil spill dispersion stability and oil re–surfacing, Environment Canada Arctic and Marine Oil Spill Program Technical Seminar (AMOP) Proceedings 2 (2006) 729–819.
4. Matar O.K., C.J. Lawrence, The effect of surfactant on the flow of a thin liquid film over a spinning disc, Chem. Eng. Sci. 61(4) (2006) 1074–1091.
5. Picard C., L. Davoust, Dilational rheology of an air–water interface functionalized by biomolecules: the role of surface diffusion, Rheologica Acta 45(4) (2006) 497–504.
6. Karakashev S.I., V.A. Nguyen, Effect of sodium dodecyl sulphate and dodecanol mixtures on foam film drainage: examining influence of surface rheology and intermolecular forces, Colloids Surfaces A 293(1–3) (2007) 229–240.
7. Picard C., Ondes capillaires à une interface fluide fonctionnalisée: détection micromécanique de brins d'AND, PhD Thesis, Institut National Polytechnique de Grenoble, 2007.
8. Yoon Y., A. Hsu, L.G. Leal, Experimental investigation of the effects of copolymer surfactants on flow–induced coalescence of drops, Phys. Fluids 19(2) (2007) 023102.
9. Davoust L., Y.–L. Huang, S.–H. Chang, Flow–induced melting of condensed domains within a dispersed Langmuir film, Physics of Fluids 20(8) (2008) 082105.
10. Huang Y.L., Experiments and modeling on an air–water interface populated by biological molecules, PhD Thesis, Grenoble University, 2009.
11. Yin J., N. Coutris, Y. Huang, Role of Marangoni instability in fabrication of axially and internally grooved hollow fiber membranes, Langmuir 26(22) (2010) 16991–16999.
12. Medved' I., R. Cerny, Surface diffusion in porous media: A critical review, Microporous and Mesoporous Materials 142(2–3) (2011) 405–422.
13. Yin J., Fabrication of grooved hollow fiber membrane for nerve regeneration: process modeling and performance evaluation, PhD Thesis, Clemson University, 2011.
14. Gong Y., L.G. Leal, Role of symmetric grafting copolymer on suppression of drop coalescence, Journal of Rheology 56(2) (2012) 397–433.
15. Kosior D., Nanostructures and stability of thin liquid layers, PhD Thesis, Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Krakow, 2013.
16. Shklyaev S., A.A. Nepomnyashchy, Longwave Marangoni convection in a surfactant solution between poorly conducting boundaries, Journal of Fluid Mechanics 718 (2013) 428–456.
17. Nawaz K., S.J. Schmidt, A.M. Jacobi, Effect of catalyst used in the sol–gel process on the microstructure and adsorption/desorption performance of silica aerogels, International Journal of Heat and Mass Transfer 74 (2014) 25–34.
18. Morozov M., A. Oron, A.A. Nepomnyashchy, Long-wave Marangoni convection in a layer of surfactant solution, Physics of Fluids 26 (2014) 112101.
19. Miralles V., Migration of biphasic systems by thermal actuation in microconfinement par, PhD Thesis, PhD Thesis, Paris 6, 2015.
20. Mandal S., U. Ghosh, S. Chakraborty, Effect of surfactant on motion and deformation of compound droplets in arbitrary unbounded Stokes flow, Journal of Fluid Mechanics 803 (2016) 200–249.
21. Miralles V., E. Rio, I. Cantat, M.-C. Jullien, Investigating the role of a poorly soluble surfactant in a thermally driven 2D microfoam, Soft Matter 12(33) (2016) 7056–7062.



22. Pan K.-L., Y.-H. Tseng, J.-C. Chen, K.-L. Huang, C.-H. Wang, M.-C. Lai, Controlling droplet bouncing and coalescence with surfactants, *Journal of Fluid Mechanics* 799 (2016) 603–636.
23. Raudino A., D. Raciti, A. Grassi, M. Pannuzo, M. Corti, Oscillations of bubble shape cause anomalous surfactant diffusion: Experiments, theory, and simulations, *Langmuir* 32(34) (2016) 8574–8582.
24. Tarig M., Electrochemical behavior of nitrobenzene in aqueous CTAB, *Science International* 28(1) (2016) 361–364.
25. Jin H., W. Wang, F. Liu, Z. Yu. H. Chang, K. Li, J. Gong, Roles of interfacial dynamics in the interaction behaviours between deformable oil droplets, *International Journal of Multiphase Flow* 94 (2017) 44–52.
26. Shklyaev S., A. Nepomnyashchy, Convection in binary liquids: Amplitude equations for stationary and oscillatory patterns. In: *Longwave Instabilities and Patterns in Fluids. Advances in Mathematical Fluid Mechanics*. Birkhäuser, New York, NY, 2017.
27. Badra A.T., H. Zahaf, H. Alla, T. Roques-Carmes, A numerical modeling of superspreading surfactants on hydrophobic surface, *Physics of Fluids* 30 (2018) 092102.
28. Martinez-Calvo A., A. Sevilla, Temporal stability of free liquid threads with surface viscoelasticity, *Journal of Fluid Mechanics* 846 (2018) 877–901.
29. Poddar A., S. Mandal, A. Bandopadhyay, S. Chakraborty, Electrical switching of a surfactant coated drop in Poiseuille flow, *Journal of Fluid Mechanics* 870 (2019) 27–66.
30. Poddar A., S. Mandal, Bandopadhyay, S. Chakraborty, Electrorheology of a dilute emulsion of surfactant-covered drops, *Journal of Fluid Mechanics* 881 (2019) 524–550.
31. Shaik V.A., A.M. Ardekani, Swimming sheet near a plane surfactant-laden interface, *Physical Review E* 99 (2019) 033101.
32. Fingas M., Surface chemistry and oil-in-water emulsion stability, *Proceedings – 42 AMOP Technical Seminar on Environmental Contamination and Response*, 2019, 940–1023.
33. White A.R., T. Ward, Surface remobilization of buoyancy-driven surfactant-laden drops at low Reynolds and capillary numbers, *AIChE Journal* 65 (2019) 294–304.
34. Morozov M., Adsorption inhibition by swollen micelles may cause multistability in active droplets, *Soft Matter* 16 (2020) 5624–5632.
35. Plou V.D.M., Kinetics of adsorption-based direct air capture, PhD Thesis, Zaragoza University, 2020.
36. An F., H. Jia, J. Liu, A gas diffusion model based on the pore structure in coal, *Chinese Journal of Rock Mechanics and Engineering* 40 (2021) 987–996.
37. Hayashi K., Y. Motoki, M.J.A. van der Linden, N.G. Deen, S. Hosokawa, A. Tomiyama, Single contaminated drops falling through stagnant liquid at low Reynolds numbers, *Fluids* 7 (2022) 55.
38. Kentheswaran K., N. Dietrich, S. Tanguy, B. Lelanne, Direct numerical simulation of gas-liquid mass transfer around a spherical contaminated bubble in the stagnant-cap regime, *International Journal of Heat and Mass Transfer* 198 (2022) 123325.
39. Chen S., B. Guo, Pore-Scale Modeling of PFAS Transport in Water-Unsaturated Porous Media: Air–Water Interfacial Adsorption and Mass-Transfer Processes in Thin Water Films, *Water Resources Research* 59 (2023) e2023WR034664.
40. Kentheswaran K., W. Antier, N. Dietrich, B. Lelanne, Impact of surfactants on the rise of deformable bubbles and interfacial gas–liquid mass transfer, *Journal of Fluid Mechanics* 970 (2023) A5.
41. Liu B., R. Manica, Q. Liu, Z. Xu, E. Klaseboer, Q. Yang, Nanoscale Transport during Liquid Film Thinning Inhibits Bubble Coalescing Behavior in Electrolyte Solutions, *Physical Review Letters* 131 (2023) 104003.
42. Sharma S., S.R.G. Balestra, R. Baur, U. Agarwal, E. Zuidema, M.S. Rigutto, S. Caletto, T.J.H. Vlugt, D. Duddeldam, RUPTURA: simulation code for breakthrough, ideal adsorption solution theory computations, and fitting of isotherm models, *Molecular Simulation* 49 (2023) 893–953.

**78 R.I. Dimova, K.D. Danov, B. Pouligny, I.B. Ivanov, Drag of a solid particle trapped in a thin film or at an interface: influence of surface viscosity and elasticity, *J. Colloid Interface Sci.* 226 (2000) 35–43. (брой: 51)**

1. Steffen P., P. Heinig, S. Wurlitzer, Z. Khattari, T.M. Fischer, The translational and rotational drag on Langmuir monolayer domains, *J. Chem. Phys.* 115(2) (2001) 994–997.
2. Wurlitzer S., H. Schmiedel, T.M. Fischer, Electrophoretic relaxation dynamics of domains in Langmuir monolayers, *Langmuir* 18(11) (2002) 4393–4400.
3. Alain J.M., Instabilités des membranes lipidiques inhomogènes. Implications biologiques. PhD Thesis, Paris University VII, 2005.
4. Heinig P., D. Langevin, Domain shape relaxation and local viscosity in stratifying foam films, *European Phys. J. E* 18(4) (2005) 483–488.
5. Fischer T.M., P. Dhar, P. Heinig, The viscous drag of spheres and filaments moving in membranes or monolayers, *J. Fluid Mech.* 558 (2006) 451–475.

6. Fontes A., H.P. Fernandes, M.L. Barjas-Castro, A.A. de Thomas, L. de Ysasa Pozzo, L.C. Barbosa, C.L. Cesar, Red blood cell membrane viscoelasticity, agglutination and zeta potential measurements with double optical tweezers, *Progress in Biomedical Optics and Imaging – Proceedings of SPIE* 6088 (2006) 608811.
7. Fontes A., H.P. Fernandes, M.L. Barjas-Castro, A.A. de Thomas, L. de Ysasa Pozzo, L.C. Barbosa, C.L. Cesar, Measuring electrical and mechanical properties of red blood cells with a double optical tweezers, *Proceedings of SPIE – The International Society for Optical Engineering* 6326 (2006) 63260N.
8. Picard C., L. Davoust, Dilational rheology of an air–water interface functionalized by biomolecules: the role of surface diffusion, *Rheologica Acta* 45(4) (2006) 497–504.
9. Fernandes H.P., A. Fontes, A.A. de Thomaz, L.C. Barbosa, M.L. Barjas-Castro, C.L. Cesar, Studying red blood cell agglutination by measuring membrane viscosity with optical tweezers, *Proceedings of SPIE – The International Society for Optical Engineering* 6644 (2007) 66440M.
10. Fontes A., H.P. Fernandes, A.A. de Thomaz, L.C. Barbosa, M.L. Barjas-Castro, C.L. Cesar, Studying red blood cell agglutination by measuring electrical and mechanical properties with a double optical tweezers, *Progress in Biomedical Optics and Imaging – Proceedings of SPIE* 6633 (2007) 66330R.
11. Picard C., Ondes capillaires à une interface fluide fonctionnalisée: détection micromécanique de brins d'AND, PhD Thesis, Institut National Polytechnique de Grenoble, 2007.
12. Sickert M., F. Rondelez, H.A. Stone, Single-particle brownian dynamics for characterizing the rheology of fluid langmuir monolayers, *EPL* 79(16) (2007) 66005.
13. Dhar P., Autonomous and guided motion of active components at interfaces, PhD Thesis, Department of Chemistry and Biochemistry, Florida State University, 2008.
14. Fontes A., H.P. Fernandes, A.A. de Thomaz, L.C. Barbosa, M.L. Barjas-Castro, C.L. Cesar, Measuring electrical and mechanical properties of red blood cells with double optical tweezers, *J. Biomedical Optics* 13(1) (2008) 014001.
15. Guzman E., H. Ritacco, F. Ortega, T. Svitova, C.J. Radke, R.G. Rubio, Adsorption Kinetics and Mechanical Properties of Ultrathin Polyelectrolyte Multilayers: Liquid-Supported versus Solid-Supported Films, *J. Physical Chemistry B* 113(20) (2009) 7128–7137.
16. Peng Y., W. Chen, Th.M. Fisher, D.A. Weitz, P. Tong, Short-time self-diffusion of nearly hard spheres at an oil–water interface, *Journal of Fluid Mechanics* 618 (2009) 243–261.
17. Spiratou E., E.A. Mourelatou, M. Makropoulou, C. Dementzos, Atomic force microscopy: a tool to study the structure, dynamics and stability of liposomal drug delivery systems, *Expert Opinion on Drug Delivery* 6(3) (2009) 305–317.
18. Ally J., A. Amirfazli, Magnetophoretic measurement of the drag force on partially immersed microparticles at air–liquid interfaces, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 360(1–3) (2010) 120–128.
19. Ally J.M., Magnetically targeted deposition and retention of particles in the airways for drug delivery, PhD Thesis, Edmonton, Alberta, 2010.
20. Bonales L.J., A. Maestro, R.G. Rubio, F. Ortega, Microrheology of complex fluids, In: *Hydrodynamics: Advanced Topics*, 2010, Ch. 7.
21. Murakami D., U. Langer, Z. Khatarri, T.M. Fischer, Fluorinated Langmuir monolayers are more viscous than non-fluorinated monolayers, *Journal of Physical Chemistry B* 114(16) (2010) 5376–5379.
22. Ortega F., H. Ritacco, R.G. Rubio, Interfacial microrheology: particle tracking and related techniques, *Current Opinion in Colloid and Interface Science* 15(4) (2010) 237–245.
23. Wilke N., F. Vega Mercado, B. Maggio, Rheological properties of a two phase lipid monolayer at the air/water interface: Effect of the composition of the mixture, *Langmuir* 26(3) (2010) 11050–11059.
24. Maestro A., L.J. Bonales, H. Ritacco, T.M. Fischer, R.G. Rubio, F. Ortega, Surface rheology: macro- and microrheology of poly(tert-butyl acrylate), *Soft Matter* 7(17) (2011) 7761–7771.
25. Botto L., E.P. Lewandowski, M. Cavallaro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
26. Fuller G.G., J. Vermant, Complex fluid-fluid interfaces: rheology and structure, *Annual Review of Chemical and Biomolecular Engineering* 3 (2012) 519–543.
27. Memdoza A.J., E. Guzman, F. Martinez-Pedrero, H. Ritacco, R.G. Rubio, F. Ortega, V.M. Starov, R. Miller, Particle laden fluid interfaces: dynamics and interfacial rheology, *Advances in Colloid and Interface Science* 206 (2014) 303–319.
28. Petkov P.V., B. Radoev, Statics and dynamics of capillary bridges, *Colloid Surface A* 460 (2014) 18–27.
29. Bournival G., S. Ata, E.J. Wanless, The role of particles in multiphase processes, *Advances in Colloid and Interface Science* 225 (2015) 114–133.
30. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, *Langmuir* 31(49) (2015) 13290–13302.

31. Schenk D.M., Submersion and lateral transport behavior of microparticles at a lung surfactant interface on model mucus hydrogels, PhD Thesis, University of Iowa, 2015.
  32. Spyratou E., E. Cunaj, G. Tsigaridas, E.A. Mourelatou, C. Demetzos, A.A. Serafetinidis, M. Makropoulou, Measurements of liposome biomechanical properties by combining line optical tweezers and dielectrophoresis, *Journal of Liposome Research* 25(3) (2015) 202–210.
  33. Stone H., H. Masoud, Mobility of membrane-trapped particles, *Journal of Fluid Mechanics*, 781 (2015) 494–505.
  34. Dadashvand N., C.M. Othon, Temperature dependent heterogeneous rotational correlation in lipids, *Physical Biology* 13(6) (2016) 066004.
  35. Elfring G.J., L.G. Leal, T.M. Squires, Surface viscosity and Marangoni stresses at surfactant laden interfaces, *Journal of Fluid Mechanics* 792 (2016) 712–739.
  36. Shigyou K., K.N. Nagai, T. Hamada, Lateral diffusion of submicrometer particle on a lipid bilayer membrane, *Langmuir* 32(51) (2016) 13771–13777.
  37. Aldi N., N. Casari, D. Dainese, M. Morini, M. Pinelli, P.R. Spina, A. Suman, Fouling of multisage axial compressor in the presence of a third substance at the particle/surface interface, *Proceedings of the ASME Turbo Expo, 2D-2018*, Code 138886.
  38. Guzman E., J. Tajuelo, J.M. Pastor, M.A. Rubio, F. Ortega, R.G. Rubio, Sgear rheology of fluid interfaces: Closing the gap between macro- and micro-rheology, *Current Opinion in Colloid and Interface Science* 37 (2018) 33–48.
  39. Mangiarotti A., V.V. Galassi, E.N. Puentes, R.G. Oliveira, M.G. Del Popolo, N. Wilke, Haponoids like sterols form compact but fluid films, *Langmuir* 35(30) (2019) 9848–9857.
  40. Loudet J.-C., M. Qiu, J. Hemauer, J.J. Feng, Drag force on a particle straddling a fluid interface: influence of interfacial deformation, *The European Physical Journal E* 43 (2020) 13.
  41. Yu J., J. Mao, M. Nagao, W. Bu, B. Lin, K. Hong, Z. Jiang, Y. Liu, S. Qian, M. Tirrell, W. Chen, Structure and dynamics of lipid membranes interacting with antivirulence end-phosphorylated polyethylene glycol block copolymers, *Soft Matter* 16 (2020) 983–989.
  42. Jaensson N.O., P.O. Anderson, J. Vermant, Computational interfacial rheology, *Journal of Non-Newtonian Fluid Mechanics* 290 (2021) 104507.
  43. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
  44. Pourali M., M. Kroger, J. Vermant, P.D. Anderson, N.O. Jaensson, Drag on a spherical particle at the air–liquid interface: Interplay between compressibility, Marangoni flow, and surface viscosities, *Physics of Fluids* 33 (2021) 062103.
  45. Pourali M., N.O. Jaensson, M. Kroger, Drag of a spheroidal particle at clean and surfactant-laden interfaces: Effect of particle aspect ratio, contact angle and surface viscosity, *Journal of Fluid Mechanics* 924 (2021) A30.
  46. Sanchez-Puga P., J. Tajuelo, J.M. Pastor, M.A. Rubio, Flow field-based data analysis in interfacial shear rheometry, *Advances in Colloid and Interface Science* 288 (2021) 102322.
  47. Puga P.S., Reología interfacial de cizalla. Nuevos esquemas de análisis de datos y su aplicación al estudio de monocapas de Langmuir de cidos grasos, PhD Thesis, UNED, 2022.
  48. Qiu Z., A. Malfliet, B. Blanpain, N. Guo, Capillary interaction between micron-sized  $\text{Ce}_2\text{O}_3$  inclusions at the air gas/liquid steel interface, *Metallurgical and Materials Transactions B* 53 (2022) 1775–1791.
  49. Qiu Z., A. Malfliet, B. Blanpain, N. Guo, Behavior of arbitrary shaped  $\text{Ce}_2\text{O}_3$  clusters at the air gas/liquid steel interface, *Metallurgical and Materials Transactions B* 53 (2022) 3896–3908.
  50. Rezaee N., Investigation of Marangoni flow in three-dimensional geometry of aqueous micro-foam, PhD Thesis, Mechanical Engineering Department, FSET Faculty, Swinburne University of Technology, 2024.
  51. Lalli N.S., A. Giusti, Thin film modelling of magnetic soap films, *Journal of Fluid Mechanics* 986 (2024) A7.
- 75 R. Dimova, C. Dietrich, A. Hadjiski, K. Danov, B. Pouligny, Falling ball viscosimetry of gain vesicle membranes: finite-size effects, *Eur. Phys. J. B* 12 (1999) 589–598. (брой: 87)**
1. Dobereiner H.G., Properties of giant vesicles, *Curr. Opin. Colloid Int. Sci.* 5(3–4) (2000) 256–263.
  2. Helfer E., S. Harlepp, L. Bourdieu, J. Robert, F.C. MacKintosh, D. Chatenay, Viscoelastic properties of actin-coated membranes, *Phys. Rev. E* 63(2) (2001) 1–13.
  3. Petkov J., N.D. Denkov, Dynamics of particles on interfaces and thin liquid films, In: *Encyclopedia of Surface and Colloid Science*, A. Hubbard, Ed.; Marcel Dekker, New York, 2001.
  4. Rutenberg A.D., M. Grant, Curved tails in polymerization-based bacterial mobility, *Physical Review E* 64 (2001) 7.

5. Buersing H., Photon Echo Spectroscopie zur Dynamik der Solvation in Wasser und an Lipidmembran Wasser Grenzschichten, PhD Thesis, Goettingen Univ., 2002.
6. Casner, A. Déformations, manipulations et instabilités d'interfaces liquides induites par la pression de radiation d'une onde laser, Ph.D. Thesis, Bordeaux Univ., 2002.
7. Shillcock J.C., R. Lipowsky, Dissipative particle dynamics simulations of planar amphiphilic bilayers, in: H. Rollnik, D. Wolf (Eds.), NIC Symposium 2001, Proceedings, John von Neumann Institute for Computing, Julich, NIC Series, Vol. 9, 2002, pp. 407–417.
8. Shillcock J.C., R. Lipowsky, Equilibrium structure and lateral stress distribution of amphiphilic bilayers from dissipative particle dynamics simulations, *J. Chem. Phys.* 117(10) (2002) 5048–5061.
9. Karcher H., J. Lammerding, H.D. Huang, R.T. Lee, R.D. Kamm, M.R. Kaazempur-Mofrad, A three-dimensional viscoelastic model for cell deformation with experimental verification, *Biophysical J.* 85(5) (2003) 3336–3349.
10. Fleck C.C., R.R. Netz, Electrostatic colloid-membrane binding, *Europhys. Lett.* 67(2) (2004) 314–320.
11. Nikolov V.K., Model membranes grafted with long polymers, PhD Thesis, Mathematisch-Naturwissenschaftlichen Fakultät, Universität Potsdam, Germany, 2004.
12. Purucker O., Establishment of a New Plasma Membrane Model with Well-Defined Polymer Spacers, PhD Thesis, Physics Department, Technical University, Munich, Germany, 2004.
13. Fleck C., Fluctuating charged membranes, PhD Thesis, Technical University, Munich, Germany, 2005.
14. Shkulipa S.A., W.K. den Otter, W.J. Briels, Surface viscosity, diffusion, and intermonolayer friction: simulating sheared amphiphilic bilayers, *Biophys. J.* 89(2) (2005) 823–829.
15. Fischer T.M., P. Dhar, P. Heinig, The viscous drag of spheres and filaments moving in membranes or monolayers, *J. Fluid Mech.* 558 (2006) 451–475.
16. Karcher H., The mechanics of mechanotransduction: analyses of cell perturbation, PhD Thesis, MIT, 2006.
17. Shkulipa S.A., Computer simulation of lipid bilayer dynamics, PhD Thesis, University of Twente, 2006.
18. Shkulipa S.A., W.K. den Otter, W.J. Briels, Simulations of the dynamics of thermal undulations in lipid bilayers in the tensionless state and under stress, *J. Chem. Phys.* 125(23) (2006) 234905.
19. Den Otter W.K., S.A. Shkulipa, Intermonolayer friction and surface shear viscosity of lipid bilayer membranes, *Biophysical J.* 93(2) (2007) 423–433.
20. Faivre M., Gouttes, vésicules et globules rouges: Déformabilité et comportement sous écoulement, PhD Thesis, Université Joseph-Fourier – Grenoble, 2007.
21. Noquchi H., G. Gompper, Swinging and tumbling of fluid vesicles in shear flow, *Phys. Rev. Lett.* 98(12) (2007) 128103.
22. Zhang C.Y., Y.W. Zhang, Effects of membrane pre-stress and intrinsic viscoelasticity on nanoindentation of cells using AFM, *Philosophical Magazine* 87(23) (2007) 3415–3435.
23. Allen K.B., B. Layton, A mechanical model for cytoskeleton and membrane interactions in neuronal growth cones, ASME International Mechanical Engineering Congress and Exposition, Proceedings 10B (2008) 925–929.
24. Allen K.B., Stress and deformation of biological membranes during cellular outgrowth and cell and liposome injection: a numerical and experimental study, PhD Thesis, Drexel University, USA, 2008.
25. Dhar P., Autonomous and guided motion of active components at interfaces, PhD Thesis, Department of Chemistry and Biochemistry, Florida State University, 2008.
26. Palmer J.S., Microstructurally-based constitutive models of cytoskeletal networks for simulation of the biomechanical response of biological cells, PhD Thesis, MIT, 2008.
27. Vorobev P., Role of membranes in hydrodynamic interaction of small particles, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 77(4) (2008) 046306.
28. Spiratou E., E.A. Mourelatou, A. Georgopoulos, C. Demetrios, M. Makropoulou, A.A. Serafetinidis, Line optical tweezers: A tool to induce transformations in stained liposomes and to estimate shear modulus, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 349(1–3) (2009) 35–42.
29. Tajparast M., M.I. Glavinovich, Forces and stresses acting on fusion pore membrane during secretion, *Biochimica et Biophysica Acta-Biomembranes* 1788(5) (2009) 1009–1023.
30. Aliaskarsohi S., P. Tierno, P. Dhar, Z. Khatarr, M. Blaszczyński, T.M. Fisher, On the diffusion of circular domains on a spherical vesicle, *J. Fluid Mechanics* 654 (2010) 417–451.
31. Camley B.A., C. Esposito, T. Baumgart, F.L.H. Brown, Lipid bilayer domain fluctuations as a probe of membrane viscosity, *Biophysical Journal* 99(6) (2010) L44–L46.
32. Camley B.A., F.L.H. Brown, Dynamic simulations of multicomponent lipid membranes over long length and time scales, *Phys. Rev. Letters* 105(14) (2010) 148102.
33. Negishi M., T. Sakaue, K. Yoshikawa, Mismatch of bulk viscosity reduces interfacial diffusivity at an aqueous-oil system, *Physical Review E* 81(2) (2010) 020901.



34. Powers T.R., Dynamics of filaments and membranes in a viscous fluid, *Reviews of Modern Physics* 82(2) (2010) 1607–1631.
35. Abkarian M., G. Massiera, L. Berry, M. Rogues, C. Braun-Breton, A novel mechanism for egress of malarial parasites from red blood cells, *Blood* 117(15) (2011) 4118–4124.
36. Brown F.L., Continuous simulation of biomembrane dynamics and the importance of hydrodynamic effects, *Quarterly Reviews of Biophysics* 44(4) (2011) 391–432.
37. Camley B.A., F.H.L. Brown, Dynamic scaling in phase separation kinetics for quasi-two-dimensional membranes, *Journal of Chemical Physics* 135(22) (2011) Art. 225106.
38. Callan-Jones A., O.E. Albarran-Arriagada, G. Massiera, V. Lorman, M. Abkarian, Red blood cell membrane dynamics during malaria parasite egress, *Biophysical Journal* 103(12) (2012) 2475–2483.
39. Camley B.A., F.H.L. Brown, Contributions to membrane-embedded-protein diffusion beyond hydrodynamic theories, *Physical Review E* 85(6) (2012) Art. 061921.
40. Hamada T., M. Morita, M. Miyakawa, R. Sugimoto, A. Hatanaka, M.C. Vestergaard, M. Takagi, Size-dependent partitioning of nano/microparticles mediated by membrane lateral heterogeneity, *Journal of American Chemical Society* 134(34) (2012) 13990–13996.
41. Herold C., Diffusion and Conformational Dynamics of Semiflexible Macromolecules and Supramolecular Assemblies on Lipid Membranes, Ph. D. Thesis, Technical University, Dresden, 2012.
42. Honerkamp-Smith A.R., B.B. Machta, S.L. Keller, Experimental observations of dynamic critical phenomena in a lipid membrane, *Physical Review Letters* 108(26) (2012) Art. 265702.
43. Srivastava A., Interaction et diffusion hydrodynamiques dans une suspension de vésicules et globules rouges, PhD Thesis, Université Grenoble, 2012.
44. Stanich C.A., Coarsening dynamics of domains in lipid membranes, PhD Thesis, Washington University, 2012.
45. Woodhouse F.G., R.E. Goldstein, Shear-driven circulation patterns in lipid membrane vesicles, *Journal of Fluid Mechanics* 705 (2012) 165–175.
46. Arriagada O.E.A., Curling dynamics of naturally curved surfaces: axisymmetric bio-membranes and elastic ribbons, PhD Thesis, Montpellier University II, 2013.
47. Honerkamp-Smith A.R., F.G. Woodhouse, V. Kantsler, R.E. Goldstein, Membrane viscosity determined from shear-driven flow in giant vesicles, *Physical Review Letters* 111 (2013) 038103.
48. Machta B.B., Criticality in cellular membranes and the information geometry of simple models, PhD Thesis, Cornell University, 2013.
49. Serafinidis A.A., M. Makropoulou, E. Spyratou, Optical tweezers and cell biomechanics in macro- and nano-scale, *Proceedings of SPIE – The International Society of Optical Engineering*, 8770 (2013) 877014.
50. Stanich C.A., A.R. Honerkamp-Smith, G.G. Putzel, C.S. Warth, A.K. Lamprecht, P. Mandal, E. Mann, T.-A.D. Hua, S.L. Keller, Coarsening dynamics of domains in lipid membranes, *Biophysical Journal* 105(2) (2013) 444–454.
51. Camley B.A., F.L.H. Brown, Fluctuating hydrodynamics of multicomponent membranes with embedded proteins, *Journal of Chemical Physics* 141(7) (2014) 075103.
52. Hormel T.T., S.Q. Kurihara, M.K. Brennan, M.C. Wozniak, R. Parthasarathy, Measuring lipid membrane viscosity using rotational and translational probe diffusion, *Physical Review Letters* 112(18) (2014) 188101.
53. Meinel A., B. Trankle, W. Römer, A. Rohrbach, Induced phagocytic particle uptake into a giant unilamellar vesicle, *Soft Matter* 10(20) (2014) 3667–3678.
54. Micheletto Y.M.S., Estudo de vesículas unilamelares gigantes por meio de microscopia óptica de fluorescência e confocal, PhD Thesis, Universidade Federal do Rio Grande do Sul. Instituto de Química. Programa de Pós-Graduação em Química, 2014.
55. Salipante P.F., P.M. Vlahovska, Vesicle deformation in DC electric pulses, *Soft Matter* 10(19) (2014) 3386–3393.
56. Habel J., A. Ogonna, N. Larsen, S. Cherre, S. Kynde, K. Kinoshita, S. Krabbe, G.V. Jensen, J.S. Hansen, K. Almdal, C. Helix-Nielsen, Selecting analytical tools for characterization of polymersomes in aqueous solution, *RSC Advances* 5(97) (2015) 79924–79946.
57. Hormel T.T., M.A. Reyer, R. Parthasarathy, Two-point microrheology of phase-separated domains in lipid bilayers, *Biophysical Journal* 109(4) (2015) 732–736.
58. Hormel T.T., The microrheology of lipid bilayers, PhD Thesis, University of Oregon, 2015.
59. Petkov J.T., N.D. Denkov, Thin liquid films and interfaces: particle dynamics, in: *Encyclopedia of Surface and Colloid Science*, 2015, 7399–7414.
60. Levant M., V. Steinberg, Intermediate regime and a phase diagram of red blood cell dynamics in a linear flow, *Physical Review E* 94 (2016) 062412.
61. Shigyou K., K.N. Nagai, T. Hamada, Lateral diffusion of submicrometer particle on a lipid bilayer membrane, *Langmuir* 32(51) (2016) 13771–13777.

62. Sigurdsson J.K., P.J. Atzberger, Hydrodynamic coupling of particle inclusions embedded in curved lipid bilayer membranes, *Soft Matter* 12(32) (2016) 6685–6707.
63. Tabaei S.R., J.J.J. Gillissen, M.C. Kim, J.C.S. Ho, B. Liedberg, A.N. Parikh, N.-J. Cho, Brownian dynamics of electrostatically adhering small vesicles to a membrane surface induces domains and probes viscosity, *Langmuir* 32(21) (2016) 5445–5450.
64. Yi X., H. Gao, Incorporation of soft particles into lipid vesicles: Effects of particle size and elasticity, *Langmuir* 32(49) (2016) 13252–13260.
65. Nagao M., E.G. Kelley, R. Ashkar, R. Bradbury, P.D. Butler, Probing elastic and viscous properties of phospholipid bilayers using neutron spin echo spectroscopy, *Journal of Physical Chemistry Letters* 8(19) (2017) 4679–4684.
66. Venable R.M., H.I. Ingolfsson, M.G. Lerner, B.S. Perrin, B.A. Camley, S.J. Marrink, F.L.H. Brown, R.W. Pastor, Lipid and peptide diffusion in bilayers: The Safmann-Delbruck model and periodic boundary conditions, *Journal of Physical Chemistry B* 121(15) (2017) 3443–3457.
67. Van der Wel C., N. Bossert, Q.J. Mank, M.G.T. Winter, D. Heinrich, D.J. Kraft, Surfactant-free colloidal particles with specific binding affinity, *Langmuir* 33(38) (2017) 9803–9810.
68. Van der Wel C., D. Heinrich, D.J. Kraft, Microparticle assembly pathway on lipid membranes, *Biophysical Journal* 113(5) (2017) 1037–1046.
69. Sadeghi M., T.R. Weigl, F. Noe, Particle-based membrane model for mesoscopic simulation of cellular dynamics, *Journal of Chemical Physics* 148(4) (2018) 044901.
70. Kelley E.G., P.D. Butler, M. Nagao, Collective dynamics in model biological membranes measured by neutron spin echo spectroscopy: Thermal fluctuations and mechanical properties in lipid bilayers, *Characterization of Biological Membranes: Structure and Dynamics*, 2019, 131–176.
71. Blosser M.G., A.R. Honerkamp-Smith, Measuring membrane viscosity in the widening gyre, *Biophysical Journal* 118 (2020) 1511–1513.
72. Martinez-Calvo A., A. Sevilla, Universal thinning of liquid filaments under dominant surface forces, *Physical Review Letters* 125 (2020) 114502.
73. Sadeghi M., F. Noe, Large-scale simulation of biomembranes incorporating realistic kinetics into coarse-grained models, *Nature Communications* 11 (2020) 2951.
74. Sakuma Y., T. Kawakatsu, T. Taniguchi, M. Imai, Viscosity landscape of phase-separated lipid membrane estimated from fluid velocity field, *Biophysical Journal* 118 (2020) 1576–1587.
75. Wang F., J. Liu, H. Zeng, Interactions of particulate matter and pulmonary surfactant: Implications for human health, *Advances in Colloid and Interface Science* 284 (2020) 102244.
76. Amador G.J., D. van Dijk, R. Kieffer, M.-E. Aubin-Tam, D. Tam, Hydrodynamic shear dissipation and transmission in lipid bilayers, *PNAS* 118 (2021) e2100156118.
77. Jahl P.E., R. Pathasarathy, Assessing the use of ellipsoidal microparticles for determining lipid membrane viscosity, *Biophysical Journal* 120 (2021) 5513–5520.
78. Mahapatra A., D. Saintillan, P. Rangamani, Curvature-driven feedback on aggregation-diffusion of proteins in lipid bilayers, *Soft Matter* 17 (2021) 8373–8386.
79. Nagao M., E.G. Kelley, A. Faraone, M. Saito, Y. Yoda, M. Kurokuzo, S. Takata, M. Seto, P.D. Butler, Relationship between viscosity and alkyl tail dynamics in lipid bilayers, *Physical Review Letters* 127 (2021) 078102.
80. Sadeghi M., F. Noe, Hydrodynamic coupling for particle-based solvent-free membrane models, *Journal of Chemical Physics* 115 (2021) 114108.
81. Sadeghi M., F. Noe, Thermodynamics and kinetics of aggregation of flexible peripheral membrane properties, *Journal of Physical Chemistry Letters* 12 (2021) 104971–10504.
82. Adrien V., G. Rayan, K. Astafyeva, I. Broutin, M. Picard, P. Fuchs, W. Urbach, N. Taulier, How to best estimate the viscosity of lipid bilayers, *Biophysical Chemistry* 281 (2022) 106732.
83. Gaur D., N.C. Dubey, B.P. Tripathi, Biocatalytic self-assembled synthetic vesicles and coacervates: From single compartment to artificial cells, *Advances in Colloid and Interface Science* 299 (2022) 102566.
84. Chhabra R.P., S.A. Patel, *Bubbles, Drops, and Particles in Non-Newtonian Fluids*, Third Edition (2023) 1–710.
85. Honerkamp-Smith A.R., Forces and Flows at Cell Surfaces, *Journal of Membrane Biology* 256 (2023) 331–340.
86. Sharma V, F. Fessler, F. Thalmann, C.M. Marques, A. Stocco, Rotational and translational drags of a Janus particle close to a wall and a lipid membrane, *Journal of Colloid and Interface Science* 652 (2023) 2159–2166.
87. Wan H., G. Jeon, W. Xin, G.M. Grason, M.M. Santore, Flower-shaped 2D crystals grown in curved fluid vesicle membranes, *Nature Communications* 15 (2024) 3442.

- 74 K. Velikov, K. Danov, M. Angelova, C. Dietrich, B. Pouligny, Motion of a massive particle attached to a spherical interface: statistical properties of the particle path, Colloids Surfaces A 149 (1999) 245–251. (брой: 6)**
1. Helfer E., S. Harlepp, L. Bourdieu, Viscoelastic properties of actin-coated Membranes, *Phys. Rev. E* 63(2) (2001) 1–13.
  2. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two-Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 9.
  3. Petkov J., N.D. Denkov, Dynamics of particles on interfaces and thin liquid films, In: *Encyclopedia of Surface and Colloid Science*, A. Hubbard, Ed.; Marcel Dekker, New York, 2001.
  4. Rutenberg A.D., M. Grant, Curved tails in polymerization-based bacterial mobility, *Physical Review E* 64 (2001) 7.
  5. Puff N., Angelova M.I., Lipid vesicles – development and application for studding membrane heterogeneity and interactions, *Advances in Planar Lipid Bilayers and Liposomes*, 5 (2006) 173–228.
  6. Petkov J.T., N.D. Denkov, Thin liquid films and interfaces: particle dynamics, in: *Encyclopedia of Surface and Colloid Science*, 2015, 7399–7414.
- 73 I.B. Ivanov, K.D. Danov, P.A. Kralchevsky, Flocculation and coalesce of micron-size emulsion droplets, Colloids Surfaces A 152 (1999) 161–182. (брой: 144)**
1. Goldszal A., M. Bourrel, Demulsification of crude oil emulsions: correlation to microemulsion phase behavior, *Ind. Eng. Chem. Res.* 39(8) (2000) 2746–2751.
  2. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
  2. Babak V.G., M.–J. Stebe, Highly concentrated emulsions: physicochemical principles of formulation, *J. Dispersion Sci. Technology* 23(1–3) (2002) 1–22.
  3. Banker G.S., C.T. Rhodes, *Modern Pharmaceutics*, Marcel Dekker, New York, 2002, Ch. 9. Disperse systems.
  4. Gurkov T.D., E.S. Basheva, Hydrodynamic behavior and stability of approaching deformable drops, in: A. T. Hubbard (Ed.), *Encyclopedia of Surface and Colloid Science*, Marcel Dekker, New York, 2002.
  5. Mishchuk N.A., R. Miller, A. Steinchen, A. Sanfeld, Conditions of coagulation and flocculation in dilute mini-emulsions, *J. Colloid interface Sci.* 256(2) (2002) 435–450.
  6. Dukhin S.S., N.A. Mishchuk, G. Loglio, L. Liggieri, R. Miller, Coalescence coupling with flocculation in dilute emulsions within the primary and/or secondary minimum, *Adv. Colloid Interface Sci.* 100–102 (2003) 47–81.
  7. Urbina-Villalba G., M. Garcia-Sucre, J. Toro-Mendoza, Average hydrodynamic correction for the Brownian dynamics calculation of flocculation rates in concentrated dispersions, *Phys. Rev. E* 68(6) (2003) 614081–614089.
  8. Galindo-Rodriguez S., E. Allemann, H. Fessi, E. Doelker, Physicochemical parameters associated with nanoparticle formation in the salting-out, emulsification-diffusion, and nanoprecipitation methods, *Pharmaceutical Research* 21(8) (2004) 1428–1439.
  9. Gokhale S.J., S. DasGupta, J.L. Plawsky, P.C. Weiner Jr., Reflectivity-based evaluation of the coalescence of two condensing drops and shape evolution of the coalesced drop, *Phys. Rev. E* 70(5) (2004) 1–12.
  10. Lee S.T., N.S. Ramesh, Shau-Tarng Lee, *Polymeric Foams: Mechanisms and Materials*, CRC Press, Boca Raton, FL, 2004, p. 171.
  11. Mishchuk N.A., A. Sanfeld, A. Steinchen, Interparticle interactions in concentrate water-oil emulsions, *Adv. Colloid Interface Sci.* 112(1–3) (2004) 129–157.
  12. Mishchuk N.O., Coalescence kinetics of Brownian emulsions, in: D.N. Petsev (Ed.), *Emulsions: Structure Stability and Interactions*, Elsevier, London, 2004, p. 351.
  13. Neumann B., B. Vincent, R. Krustev, H.–J. Müller, Stability of various silicone oil/water emulsion films as a function of surfactant and salt concentration, *Langmuir* 20(11) (2004) 4336–4334.
  14. Rekvig L., B. Hafskjold, B. Smit, Molecular simulations of surface forces and film rupture in oil/water/surfactant systems, *Langmuir* 20(26) (2004) 11583–11593.
  15. Zhang X.D., R.A. Neff, C.W. Macosco, Foam stability in flexible polyurethane, in: *Polymer Foams: Mechanisms and materials*, 2004, Ch. 5.
  16. Zimmerman J.B., K.F. Hayes, S.J. Skerlos, Influence of ion accumulation on the emulsion stability and performance of semi-synthetic metalworking fluids, *Environ. Sci. Technol.* 38(8) (2004) 2482–2490.
  17. Lyklema J. (Ed.), *Fundamentals of Interface and Colloid Science*, Vol. 5: Soft Colloids, Elsevier, Amsterdam, 2005, p. 218.

18. Melean Y., L.D.G. Sigalotti, Coalescence of colliding van der Waals liquid drops, *Int. J. Heat Mass Transfer* 48(19–20) (2005) 4041–4061.
19. Valladares S.M., Estabilidad de emulsiones relacionada con el proceso de deshidratación de crudos, PhD Thesis, Universidad de Los Andes, 2005.
20. Wlastra P., Emulsions, *Fundamental of Interface and Colloid Science*, Vol. 5: Soft Colloids, Elsevier, Amsterdam, 2005, p. 1–94.
21. Yan L., Stability, Transport and Applications of Polyaphrons in Porous Media, PhD Thesis, Department of Chemical Engineering, Louisiana State University, Baton Rouge, 2005.
22. Avila C., Interfacial phenomena in oil-in-water emulsions, PhD Thesis, University of Tulsa, 2006.
23. Basheva E.S., T.D. Gurkov, N.C. Christov, B. Campbell, Interactions in oil/water/oil films stabilized by  $\beta$ -lactoglobulin; role of the surface charge, *Colloids Surfaces A* 282–283 (2006) 99–108.
24. Egger H., K.M. McGrath, Aging of oil-in-water emulsions: the role of the oil, *J. Colloid Interface Sci.* 299(2) (2006) 890–899.
25. Filip-Boar D., AFM-CSLM microrheology of aggregated emulsions, PhD Thesis, University of Twente, 2006.
26. Fingas M., L. Ka'ahue, Oil spill dispersion stability and oil re-surfacing, *Environment Canada Arctic and Marine Oil Spill Program Technical Seminar (AMOP) Proceedings 2* (2006) 729–819.
27. Yan L., K.E. Thompson, K.T. Valsaraj, A numerical study on the coalescence of emulsion droplets in a constricted capillary tube, *J. Colloid Interface Sci.* 298(2) (2006) 832–844.
28. Babak V.G., Highly concentrated emulsions: Physicochemical principles of the preparation and stability, *Uspekhi Khimii* 77 (2008) 729–756.
29. Holtze C., A.C. Rowat, J.J. Agresti, etc., Biocompatible surfactants for water-in-fluorocarbon emulsions, *Lab on a Chip – Miniaturisation for Chemistry and Biology* 8(10) (2008) 1632–1639.
30. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140 (1) (2008) 1–65.
31. Florence, A.T.; Siepmann, J., Eds., *Modern Pharmaceutics*, Fifth Edition, Volume 1: Basic Principles and Systems (Drugs and the Pharmaceutical Sciences), Informa HealthCare; New York, 2009.
32. Fukushima J., H. Tatsuta, N. Ishii, J. Chen, T. Nishiumi, K. Aoki, Possibility of coalescence of water droplets in W/O emulsions by means of surface processes, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 333(1–3) (2009) 53–58.
33. Rungsevijitprapa W., F. Siepmann, J. Siepmann, O. Paeratakul, Disperse systems, in: *Modern Pharmaceutics*, 2009, Ch. 11.
34. Urbina-Villalba G., A. Forgiarini, K. Rahn, A. Lozsán, Influence of flocculation and coalescence on the evolution of the average radius of an O/W emulsion. Is a linear slope of  $R^3$  vs.  $t$  an unmistakable signature of Ostwald ripening? *Physical Chemistry Chemical Physics* 11(47) (2009) 11184–11195.
35. Urbina-Villalba G., An algorithm for emulsion stability simulations: account of flocculation, coalescence, surfactant adsorption and the process of Ostwald ripening, *Int. J. Mol. Sci.* 10 (2009) 761–804.
36. Wee G.C., In Vitro and in Vivo investigation of nanoparticles of a novel copolymer for sustained and controlled delivery of docetaxel, MSc Thesis, National University of Singapore, 2009.
37. Hempoonsert J., B. Tansel, S. Laha, Effect of temperature and pH on droplet aggregation and phase separation characteristics of flocs formed in oil–water emulsions after coagulation, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 353(1) (2010) 37–42.
38. Klapper P., Tensiometrische Stofftransportuntersuchungen der Zinkextraktion mit dem Kationenaustauscher Di(2-ethylhexyl)phosphorsäure, PhD Thesis, TU Bergakademie Freiberg, Germany, 2010.
39. Pichot R., Stability and characterisation of emulsions in the presence of colloidal particles and surfactants, PhD Thesis, university of Birmingham, 2010.
40. Rojas C., G. Urbina-Villalba, M. Garcia-Sucre, Lifetime of micrometer-sized drops of oil pressed by buoyancy against a planar interface, *Physical Review E* 81(1) (2010) 016302.
41. Rojas C., M. Garcia-Sucre, G. Urbina-Villalba, Lifetime of oil drops pressed by buoyancy against a planar interface: Large drop, *Physical Review E* 82(5) (2010) 056317.
42. Toro-Mendoza J., A. Lozsán, M. Garcia-Sucre, S.A.J. Castellanos, Urbina-Villalba G., Influence of droplet deformability on the coalescence rate of emulsions, *Physical Review E* 81(1) (2010) 011405.
43. Ventureira J.L., Propiedades estructurales y funcionales de preparados proteicos de amaranto modificados y soja-amaranto, PhD Thesis, Universidad Nacional de la Plata, 2010.
44. Gurkov T.D., J.K. Angarska, K.D. Tachev, W. Gaschler, Statistics of rupture in relation to the stability of thin liquid films with different size, *Colloid Surfaces A* 382(1–3) (2011) 174–180.
45. Hasinovic H., S.E. Friberg, Destabilization mechanisms in a triple emulsion with Janus drops, *J. Colloid Interface Sci.* 361(2) (2011) 581–586.



46. Long T., C.A. Ramsburg, Encapsulation of nZVI particles using a Gum Arabic stabilized oil-in-water emulsion, *Journal of Hazardous Materials* 189(3) (2011) 801–808.
47. Mishchuk N.A., Theoretical problems of stability of Brownian disperse systems, *Journal of Water Chemistry and Technology* 33(4) (2011) 207–214.
48. Mukherjee B., B.A. Wrenn, Effects of physical properties and dispersion conditions on the chemical dispersion of crude oil, *Environmental Engineering Science* 28(4) (2011) 263–273.
49. Osorio P., G. Urbina-Villalba, Influence of drop deformability on the stability of decane-in-water emulsions, *Journal of Surfactants and Detergents* 14(2) (2011) 281–300.
50. Frid M.M., Controlling and imaging multi-component dispersed-phase nanoemulsions, PhD Thesis, University of California, LA, 2012.
51. Graceffa R., M. Burghammer, R.J. Davies, C. Riekel, Probing ballistic microdrop coalescence stroboscopic small-angle X-ray scattering, *Applied Physics Letters* 25 (2012) 254101.
52. Hsieh C.-W., P.-H. Li, I.-C. Lu, T.-H. Wang, Preparing glabridin-in-water nanoemulsions by high pressure homogenization with response surface methodology, *Journal of Oleo Science* 61(9) (2012) 483–489.
53. Krebs T., C.P.G.H. Schroen, R.M. Boom, A microfluidic study of oil-water separation kinetics, in: *Advances in Fluid Mechanics*, IX, 2012.
54. Krebs T., K. Schroen, R. Boom, A microfluidic method to study demulsification kinetics, *Lab on a Chip – Miniaturisation for Chemistry and Biology* 12(6) (2012) 1060–1070.
55. Krebs T., K. Schroen, R. Boom, Separation kinetics of an oil-in-water emulsion under enhanced gravity, *Chemical Engineering Science* 71 (2012) 118–125.
56. Long T., C.A. Ramsburg, Gum arabic encapsulation of reactive particles for enhanced delivery during subdermal restoration, *Patent Corporation Treaty Application*, June 2012.
57. Rahn-Chique K., A.M. Puertas, M.S. Rumero-Cano, C. Rojas, G. Urbina-Villalba, Nanoemulsion stability: experimental evaluation of the flocculation rate from turbidity measurements, *Adv. Colloid Interface Sci.* 178 (2012) 1–20.
58. Rahn-Chique K., A.M. Puertas, M.S. Rumero-Cano, C. Rojas, G. Urbina-Villalba, Evaluation of a flocculation speed in oil/water nanoemulsions. 1. Development of theoretical expressions for the turbidity of a nanoemulsion. *Interciencia* 37(8) (2012) 577–581.
59. Roberts C., Spatio-temporal analysis of changes of shape for constituent bodies within biomolecular aggregates, PhD Thesis, University of East Anglia, 2012.
60. Urbina-Villalba G., Rahn-Chique K., Short-time evolution of alkane-in-water nano-emulsions, *Revista del Centro de Estudios Interdisciplinarios de la Física* 1 (2012) 1–14.
61. Ferchichi Y., Experimental study of a spherical particle approach towards a liquid/fluid interface, PhD Thesis, LGPM – Laboratoire de Genie des Procédés et Matériaux, Ecole Centrale Paris, 2013.
62. Kowalska M., A. Zbikowska, Application of a laser diffraction method for determination of stability of dispersion systems in food and chemical industry, *Journal of Dispersion Science and Technology* 34(10) (2013) 1447–1453.
63. Krebs T., C.P.G.H. Schroen, R.M. Boom, Coalescence kinetics of oil-in-water emulsions studied with microfluidics, *Fuel* 106 (2013) 327–334.
64. Krebs T., D. Ershov, C.P.G.H. Schroen, R.M. Boom, Coalescence and compression in centrifuged emulsions studied with in situ optical microscopy, *Soft Matter* 9(15) (2013) 4026–4035.
65. Poortinga A.T., Micron-sized antibubbles with tunable stability, *Colloid Surfaces A* 419 (2013) 15–20.
66. Cenci S.M., Acoustic agitation of dense carbon dioxide/water mixtures: emulsification, mass transfer, and reaction engineering, PhD Thesis, Birmingham University, 2014.
67. Kamp J., M. Kraume, Influence of drop size and superimposed mass transfer on coalescence in liquid-liquid dispersions – Test cell design for single drop investigation, *Chemical Engineering Research and Design* 92(4) (2014) 635–643.
68. Miao S., Mao L., DSC application to characterizing food emulsions, in: Chiavaro E., Ed., *Differential Scanning Calorimetry. Applications in Fat and Oil Technologies*, CRC Press, 2014, Ch. 10.
69. Milas P., Single molecule studies of a short RNA, PhD Thesis, University of Massachusetts, 2014.
70. Miljkovic M., M. Radenberg, Fracture behavior of bitumen emulsion mortar mixture, *Construction and Building Materials* 62 (2014) 126–134.
71. Naemullah, T.G. Kazi, H.I. Afridi, F. Shah, S.S. Acaín, A.H. Panhwar, S.A. Arain, M.B. Arain, Development of green miniaturized dispersive ionic liquid nano-emulsion method for preconcentration of cadmium from canal and waste water samples prior to coupling with graphite furnace atomic absorption spectrometry, *Analytical Methods* 6(17) (2014) 6909–6915.
72. Nilsen-Nygaard J., M. Sletmoen, K.I. Draget, Stability and interaction forces of oil-in-water emulsions as observed by tweezers – a proof of concept study, *RSC Advances* 4 (2014) 52220–52229.

73. Sereti V., M. Zoumpanioti, V. Papadimitriou, S. Pispas, A. Xenakis, Biocolloids based on amphiphilic block copolymers as a medium for enzyme encapsulation, *J. Phys. Chem. B* 110(32) (2014) 9808–9816.
74. Shen B.Q., Transport and self-assembly of droplets in microfluidic devices, Phd Thesis, Paris University 6, 2014.
75. Suriyarak S., J. Weiss, Cutoff Ostwald ripening stability of alkane-in-water emulsion loaded with eugenol, *Colloid and Surfaces A* 446 (2014) 71–79.
76. Urbina-Villalba G., El fenomeno de maduracion de Ostwald. Predicciones de las simulaciones de estabilidad de emulsiones sobre la evolucion del radio cubico promedio de una dispersion, *Revista del Centro de Estudios Interdisciplinarios de la Fisica* 3 (2014) 1–21.
77. Wang Y., Preparation of nano- and microemulsions using phase inversion and emulsion titration methods, MSc Thesis, Massey University, Auckland, New Zeland, 2014.
78. Al-Shananaq R., M. Farid, S. Al-Muhtaseb, J. Kurdi, Emulsion stability and cross-linking of PMMA microcapsules containing phase change materials, *Solar Energy Materials and Solar Cells* 132 (2015) 311–318.
79. Bari V., Large deformation and crystallization properties of process optimized cocoa butter emulsions, PhD Thesis, University of Birmingham, 2015.
80. Ching S.H., N. Bansal, B. Bhandari, Physical stability of emulsion encapsulated in alginate microgel particles by the impinging aerosol technique, *Food Research International* 75 (2015) 182–193.
81. Fazullin D.D., G.V. Mavrin, I.G. Chaikhiev, Particle size and zeta potential changes in the disperse phase of water-emulsified waste waters in different treatment stages, *Chemistry and Technology of Fuels and Oils* 51(5) (2015) 501–505.
82. Gawel B., C. Lesaint, S. Badyopadhyay, G. Oye, Role of physicochemical and interfacial properties on the binary coalescence of crude oil drops in synthetic produced water, *Energy and Fuels* 29(2) (2015) 512–519.
83. Li J., G.H. Shin, X. Chen, H.J. Park, Modified curcumin with hyaluronic acid: Combination of pro-drug and nano-micelle strategy to address the curcumin challenge, *Food Research International* 69 (2015) 202–208.
84. Mao L., S. Miao, Structuring food emulsions to improve nutrient delivery during digestion, *Food Engineerign Reviews* 7(4) (2015) 439–451.
85. Miljkovich M., M. Radenberg, Characterising the influence of bitumen emulsion on asphalt mixture performance, *Materials and Structures* 40(7) (2015) 2195–2210.
86. Yarlagadda S.C., Dynamics of hard and soft colloids in confined geometries and on structured surfaces, PhD Thesis, Georgia Institute of Technology, 2015.
87. Al Sabagh A.M., E. Azzam, N.M. Nasser, F.T. Abdel Haliem, A.M. El-Shafey, Using ethoxylated polyalkylphenol formaldehyde as additive to enhanced some physical properties of Egyptian jet fuel A1, *African Journal of Engineering Research* 4(2) (2016) 11–25.
88. Balcaen M., L. Vermeir, A. Declerck, P. Van der Meeren, Influence of internal water phase gelation on the shear- and osmotic sensitivity of W/O/W-type double emulsions, *Food Hydrocolloids* 58 (2016) 356–363.
89. He Z., X. Zhang, W. Batchelor, Cellulose nanofiber aerogel filter with tuneable pore structure for oil/water separation and recovery, *RSC Advances* 6(26) (2016) 21435–21438.
90. Lee J.-H., J.-A. Shin, K.-T. Lee, Effect of cacao extract on hydrolysis of oil vs. Emulsion in pH-Stat digestion model, *Journal of the Korean Society of Food Science and Nutrition* 45 (2016) 533–541.
91. Miljkovich M., M. Radenberg, Effect of compaction energy on physical and mechanical performance of bitumen emulsion mortar, *Materials and Structures* 49(1) (2016) 193–205.
92. Sokolovic R.M.S., D.S. Sokolovic, D.D. Govedarica, Liquid-liquid separation using steady-state bed coalescer, *Hemijska Industrija* 4 (2016) 367–381.
93. Whitby C.P., H. Khairul Anwar, J. Hughes, Destabilizing pickering emulsions by drop flocculation and adhesion, *Journal of Colloid and Interface Science* 456 (2016) 158–164.
94. Радулова Г.М., Повърхностна реология на адсорбционни слоеве от протеина хидрофобин и от ногови смеси с други протеини: експеримент и теоретичен модел, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2016.
95. Berry J.D., R.R. Dagastine, Mapping coalescence of micron-sized drops and bubbles, *Journal of Colloid and Interface Science* 487 (2017) 513–522.
96. Kamp J., J. Villwock, M. Kraume, Drop coalescence in technical liquid/liquid applications: A review on experimental techniques and modeling approaches, *Reviews in Chemical Engineering* 33(1) (2017) 1–47.
97. Miljkovich M., M. Radenberg, X. Fang, P. Lura, Influence of emulsifier content on cement hydration and mechanical performance of bitumen emulsion mortar, *Materials and Structures* 50(3) (2017) 185.
98. Politova N., S. Tcholakova, N.D. Denkov, Factors affecting the stability of water-oil-water emulsion films, *Colloids Surfaces A* 522 (2017) 608–620.

99. Dudek M.J., Produced water quality and microfluidic methods for studying drop-drop and drop-bubble interactions in produced water, PhD Thesis, Norwegian University of Science and Technology, 2018.
100. Wang J., A.J.T. Teo, S.H. Tan, G.M. Evans, N.-T. Nguyen, A.V. Nguyen, Influence of interfacial gas enrichment on controlled coalescence of oil droplets in water in microfluidics, *Langmuir* 35(10) (2019) 3615–3623.
101. Fingas M., Surface chemistry and oil-in-water emulsion stability, *Proceedings – 42 AMOP Technical Seminar on Environmental Contamination and Response*, 2019, 940–1023.
102. Mishchuk N.A., Dependence of the particle interaction on the moisture content of disperse systems, *Journal of Water Chemistry and Technology* 41(4) (2019) 212–218.
103. Moussa O., Optical diagnostics for the study of the conditions leading to the micro-explosion of a water-in-oil emulsion drop, PhD Thesis, Bretagne University, 2019.
104. Williams Y.O., N. Roas-Escalona, G. Rodriguez-Lopez, A. Villa-Torrealba, J. Toro-Mendoza, Modeling droplet coalescence kinetics in microfluidic devices using population balances, *Chemical Engineering Science* 201 (2019) 475–483.
105. Chen Y., S. Narayan, C.S. Dutcher, Phase-dependent surfactant transport on the microscale: Interfacial tension and droplet coalescence, *Langmuir* 36 (2020) 14904–14923.
106. Collette N.K., Effect of soy lecithin concentration on formulating dairy emulsions through ultrasound treatment, PhD Thesis, South Dakota State University, 2020.
107. Martinez N.Y., M.S. Moreno, Oil-in-water emulsion development for the encapsulation and sustained release of xanthone, *Journal of Dispersion Science and Technology* 41 (2020) 355–361.
108. Najafi M.N., S. Nemat, A. Mohammadi-Safi, R. Kadhodae, The encapsulation of saffron extract in double emulsion system and stability evaluation of its active constituents using principal component analysis method during storage period, *Journal of Research and Innovation in Food Science and Technology* 9 (2020) 1–16.
109. Narayan S., A.E. Metaxas, R. Bachnak, T. Neumiller, C.S. Dutcher, Zooming in on the role of surfactants in droplet coalescence at the macroscale and microscale, *Current Opinion in Colloid and Interface Science* 50 (2020) 101385.
110. Narayan S., I. Makhnenko, D.B. Moravec, B.G. Hauser, A.J. Dallas, C.S. Dutcher, Insights into the microscale coalescence behavior of surfactant-stabilized droplets using a microfluidic hydrodynamic trap, *Langmuir* 36 (2020) 9827–9842.
111. Rave M., J.D. Echeverri, C.H. Salamanca, Improvement of the physical stability of oil-in-water nanoemulsions elaborated with Sacha inchi oil employing ultra-high-pressure homogenization, *Journal of Food Engineering* 273 (2020) 109801.
112. Reyes I., M.M. Palacio, C.J. Yance, J. Onate-Garzon, C.H. Salamanka, Relationship between the ionization degree and the inter-polymeric aggregation of the poly(maleic acid-alt-octadecene) salts regarding time, *Polymers* 12 (2020) 1036.
113. Tripodi E., A. Lazidis, I.T. Norton, F. Spyropoulos, Food structure development in emulsion systems, *Food Chemistry, Function and Analysis* 18 (2020) 59–92.
114. Wang C., X. Chen, Y. Wu, Y. Li, S. Cheng, In situ liquid cell transmission electron microscopy observation of dynamic process of oleic acid emulsion with gold nanorods, *Journal of Physical Chemistry C* 124 (2020) 26918–26925.
115. Cerff B., D. Key, B. Bladergroen, A review on the process associated with the removal of oil in water pollution, *Sustainability* 13 (2021) 12339.
116. Davis C.R., Relating the formation mechanism and kinetic stability of complex shipboard emulsions to the physical and chemical properties of model surfactant-oil-water-salt systems, PhD Thesis, School of Material Engineering, Indiana, 2021.
117. Kang J., S.-J. Rho, J. Lee, Y.-R. Kim, Stability of the enzyme-modified starch-based hydrogel model premix with curcumin during in vitro digestion, *Korean Journal of Food Science and Technology* 53 (2021) 365–374.
118. Li R., Y. Lu, Z. Zhang, R. Manica, Role of surfactants based on fatty acids in the wetting behavior of solid-oil-aqueous solution systems, *Langmuir* 37 (2021) 5682–5690.
119. Nie C., G. Han, J. Ni, S. Guan, H. Du, Y. Zhang, H. Wang, Stability dynamic characteristic of oil-in-water emulsion from alkali-surfactant-polymer flooding, *ACS Omega* 6 (2021) 19058–19066.
120. Yu L., S. Li, L.P. Stubbs, H.C. Lau, Characterization of clay-stabilized, oil-in-water Pickering emulsion for potential conformance control in high-salinity, high-temperature reservoirs, *Applied Clay Science* 213 (2021) 106246.
121. Abdulredha M.M., S.A. Hussain, L.C. Abdullah, T.L. Hong, Water-in-oil emulsion stability and demulsification via surface-active compounds: A review, *Journal of Petroleum Science and Engineering* 209 (2022) 109848.

122. Angardi V., A. Etehad, O. Yucel, Critical review of emulsion stability and characterization techniques in oil processing, *Journal of Energy Resources Technology* 144 (2022) 40801.
  123. Hernandez-Martinez A.R., C. Silva-Cuevas, D. Rangel-Miranda, J.A. Luján-Montelongo, Adsorption and swelling studies of 2-hydroxyethyl methacrylate- and N,N-dimethylacrylamide-based porous copolymers and their possible applications for QCM-sensors, *Applied Surface Science* 572 (2022) 151508.
  124. Tenorio-Garcia E., A. Araiza-Calahorra, E. Simone, Recent advances in design and stability of double emulsions: Trends in Pickering stabilization, *Food Hydrocolloids* 128 (2022) 107601.
  125. Wilson R.J., Y. Li, G. Yang, C.-X. Zhao, Nanoemulsions for drug delivery, *Particuology* 64 (2022) 84–97.
  126. Ami Ahmadi H., A. Ebadi, S.M. Hoseinalipour, Experimental study of bubble-droplet interaction in water; the effect of water salinity on the drainage time, *Journal of Dispersion Science and Technology* 44 (2023) 61–74.
  127. Arbabi S., P. Deuar, M. Denys, R. Bannacer, Z. Che, P.E. Theodorakis, Coalescence of surfactant laden droplets, *Physics of Fluids* 35 (2023) 063329.
  128. Bachnak R., C. Panigrahi, D.B. Moravec, B.G. Hauser, A.J. Dallas, C.S. Dutcher, The Effect of Surface Interactions on the Coalescence of Water Droplets in Fuel, *Energy and Fuels* 37 (2023) 15956–15966.
  129. Badruddoza A.Z.M., T. Yeoh, J.C. Shah, T. Walsh, Assessing and Predicting Physical Stability of Emulsion-Based Topical Semisolid Products: A Review, *Journal of Pharmaceutical Sciences* 112 (2023) 1772–1793.
  130. Daglish J., A.J. Blacker, G. de Boer, A. Crampton, D.R.J. Hose, A.R. Parsons, N. Kapur, Determining Phase Separation Dynamics with an Automated Image Processing Algorithm, *Organic Process Research and Development* 27 (2023) 627–639.
  131. Grassia P., H. Rajabi, R. Rosario, C. Torres-Ulloa, Surfactant transport upon foam films moving through porous media, *Colloids Surfaces A* 679 (2023) 132575.
  132. Krebs T., M.R. Akdim, Emulsion separation, *Surface Process, Transportation, and Storage*, 4 (2023) 79–152.
  133. Lu X., T. Jiang, X. Ma, Progress in the Preparation Process of Plant Fiber Foam and Its Bubble Forming Theory, *Polymeric Materials Science and Engineering* 39 (2023) 182–190.
  134. Mohite P., T. Rajput, R. Pandhare, A. Sangale, S. Singh, B.G. Prajapati, Nanoemulsion in management of colorectal cancer: Challenges and Future Prospects, *Nanomanufacturing* 3 (2023) 139–166.
  135. Munir B., D. Du, Dynamics of two unequal micron-sized viscous emulsion drops flowing in a two-dimensional constricted microcapillary channel: A numerical study, *Journal of Molecular Liquids* 390 (2023) 123158.
  136. Raynel G., D.S. Marques, M. Al-Thabet, The influence of water droplet packing on crude oil emulsion, *European Physical Journal E* 46 (2023) 53.
  137. Simonen G., J. Kjolaas, P.R. Leinan, H. Schumann, Literature review on surface-active components in emulsions and foams: Theory and modelling efforts, *Geoenergy Science and Engineering* 230 (2023) 212516.
  138. Singh N., V. Narsimhan, Impact of surface rheology on droplet coalescence in uniaxial compressional flow, *Physical Review Fluids* 8 (2023) 083602.1102767.
  139. Tobar-Delgado E., O. Osorio-Mora, A. Barrera-Ocampo, L. Serna-Cock, C.H. Salamanka, Enhancing the physicochemical stability and antioxidant activity of cape gooseberry calyx extract through nanoencapsulation in soy lecithin liposomes, *Colloids Surfaces B* 234 (2024) 113662.
  140. Daniels J.R., M.M.R. Williams, M.D. Eaton, Transient analysis of the 1970 Windscale nuclear criticality incident, *Progress in Nuclear Energy* 170 (2024) 105095.
  141. Singh N., V. Narsimhan, Effect of Droplet Viscosity Ratio and Surfactant Adsorption on the Coalescence of Droplets with Interfacial Viscosity, *Fluids* 9 (2024) 48.
  142. Arbabi S., P. Deuar, Z. Che, P.E. Theodorakis, Coalescence of sessile aqueous droplets laden with surfactants, *Physics of Fluids* 36 (2024) 023340.
  143. Benyaya M., M.-A. Bolzinger, Y. Chevalier, C. Bordes, Rheological properties and stability of Pickering emulsions stabilized with differently charged particles, *Colloids and Surfaces A* 687 (2024) 133514.
  144. Wang X., J. Ouyang, Z.M. Wang, Exploring the dynamic mechanism of water wetting induced corrosion on differently pre-wetted surfaces in oil–water flows, *Journal of Colloid and Interface Science* 664 (2024) 284–298.
- 72 D.S. Valkovska, K.D. Danov, I.B. Ivanov, Surfactants role on the deformation of colliding small bubbles, *Colloids Surfaces A* 156 (1999) 547–566. (брой: 42)**
1. Gurkov T., E. Basheva, Hydrodynamic behaviour and stability of approaching deformable drops, in A.T. Hubbard (Ed.) *Encyclopedia in Surface and Colloid Science*, Marcel Dekker, 2002.
  2. Coons J.E., P.J. Halley, S.A. McGlashan, A review of drainage and spontaneous rupture in free standing thin films with tangentially immobile interfaces, *Adv. Colloid Interface Sci.* 105(1–3) (2003) 3–62.



3. Guo J., Y. Wang, D. Li, H. Tang, Interfacial interaction between the bubbles and particles in the flotation process, *Acta Scientiae Circumstantiae* 23(2) (2003) 194–200.
4. Kapilashrami A., K. Eskilsson, L. Bergström, M. Malmsten, Drying of oil-in-water emulsions on hydrophobic and hydrophilic substrates, *Colloids Surfaces A* 233(1–3) (2004) 155–161.
5. Sterling Jr. M.C., Aggregation and transport kinetics of crude oil and sediment in estuarine waters, Ph.D Thesis, Texas Univ., 2004.
6. Sterling Jr. M.C., J.S. Bonner, A.N.S. Ernest, C.A. Page, R.L. Autenrieth, Chemical dispersant effectiveness testing: influence of droplet coalescence, *Marine Pollution Bulletin* 48(9–10) (2004) 969–977.
7. Lee J., S.E. Kentish, M. Ashokkumar, The effect of surface-active solutes on bubble coalescence in the presence of ultrasound, *J. Phys. Chem. B* 109(11) (2005) 5095–5099.
8. Sanfeld A., A. Steinchen, N. Mishchuk, Energy barrier in dense W/O emulsions, *Colloids Surfaces A* 261(1–3) (2005) 101–107.
9. Beneventi D., M.N. Belgacem, B. Carre, Influence of surfactant structure on bubble size and foaming in bubble columns: focus on flotation de-inking, *Nordic Pulp and Paper Research Journal* 21(5) (2006) 702–709.
10. Kralchevsky P.A., N.D. Denkov, Ivan B. Ivanov: remarkable figure in colloid science, *Colloids Surfaces A* 282–283 (2006) 1–7.
11. Rother M.A., A.Z. Zinchenko, R.H. Davis, Surfactant effects on buoyancy-driven viscous interactions of deformable drops, *Colloids Surfaces A* 282–283 (2006) 50–60.
12. Hannisdal A., R. Orr, J. Sjoblom, Viscoelastic properties of crude oil components at oil-water interfaces. 2: Comparison of 30 oils, *J. Dispersion Science Technology* 28(3) (2007) 361–369.
13. Manica R., J.N. Connor, L.Y. Glasohm, S.L. Carnie, R.G. Horn, D.Y.C. Chan, Transient responses of a wetting film to mechanical and electrical perturbations, *Langmuir* 24(4) (2008) 1381–1390.
14. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140 (1) (2008) 1–65.
15. Tcholakova S., N.D. Denkov, K. Golemanov, K.P. Ananthapadmanabhan, A. Lips, Theoretical model of viscous friction inside steadily sheared foams and concentrated emulsions, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 78(1) (2008) 011405.
16. Zeno E., B. Carre, M.C. Angelier, D. Beneventi, Surfactant management in industrial deinking plants: A tool for flotation control, *Professional Papermaking* 5(2) (2008) 50–56.
17. Zeno E., M.C. Angelier, D. Beneventi, B. Carre, Surfactant mass balance in industrial deinking plants: A tool for flotation control, *PTS-CTP Deinking Symposium 2008*, 33.1–33.16.
18. Beneventi D., F. Almeida, N. Marlin, D. Curtil, L. Salgueiro, M. Aurousseau, Hydrodynamics and recovered papers deinking in an ozone flotation column, *Chemical Engineering and Processing: Process Intensification* 48(11–12) (2009) 1517–1526.
19. Denkov N.D., S. Tcholakova, K. Golemanov, A. Lips, Jamming in Sheared Foams and Emulsions, Explained by Critical Instability of the Films between Neighboring Bubbles and Drops, *Physical Review Letters* 103(11) (2009) 118302.
20. Denkov N.D., S. Tcholakova, K. Golemanov, K.P. Ananthapadmanabhan, A. Lips, The role of surfactant type and bubble surface mobility in foam rheology, *Soft Matter* 5(18) (2009) 3389–3408.
21. Wierenga P.A., E.S. Basheva, N.D. Denkov, Modified capillary cell for foam film studies allowing exchange of the film-forming liquid, *Langmuir* 25(11) (2009) 6035–6039.
22. Gunes D.Z., X. Clain, O. Breton, G. Mayor, A.S. Burbidge, Avalanches of coalescence events and local extensional flows – Stabilisation or destabilisation due to surfactant, *J. Colloid Interface Sci.* 343(1) (2010) 79–86.
23. Hu X., Q. Fei, Z. Xu, A. Tian, Study on design and application of multi-piped co-coagulation flotation wastewater treatment equipment, *Proceedings of the 3rd International Conference on Environmental Technology and Knowledge Transfer* (2010) 625–630.
24. Manor O., D.Y.C. Chan, Influence of surfactants on the force between two bubbles, *Langmuir* 26(2) (2010) 655–662.
25. Miller C.A., Behavior of emulsions and microemulsions, in *Nanoscience. Colloidal and Interfacial Aspects*, V.M. Starov Ed., CRC Press, Boca Raton, FL, 2010, Ch. 17.
26. Toro-Mendoza J., A. Lozano, M. Garcia-Sucre, S.A.J. Castellanos, Urbina-Villalba G., Influence of droplet deformability on the coalescence rate of emulsions, *Physical Review E* 81(1) (2010) 011405.
27. Chan D.Y.C., E. Klaseboer, R. Manica, Film drainage and coalescence between deformable drops and bubbles, *Soft Matter* 7(6) (2011) 2235–2264.
28. Chan D.Y.C., E. Klaseboer, R. Manica, Theory of non-equilibrium force measurements involving deformable drops and bubbles, *Adv. Colloid Interface Science*, 165(2) (2011) 70–90.

29. Kralova I., J. Sjoblom, G. Oye, S. Simon, B.A. Grimes, K. Paso, Heavy crude oils/particle stabilized emulsions, *Advances in Colloid and Interface Science* 169(2) (2011) 106–127.
  30. Zinchenko A.Z., M.A. Rother, Davis R.H., Gravity-induced collisions of spherical drops covered with compressible surfactant, *J. Fluid Mechanics*, 667 (2011) 369–402.
  31. Castro J.M., A. Burgisser, C.I. Schipper, S. Mancini, Mechanism of bubble coalescence in silicic magmas, *Bulletin of Volcanology* 74(10) (2012) 2339–2352.
  32. Krebs T., K. Schroen, R. Boom, Coalescence dynamics of surfactant-stabilized emulsions studied with microfluidic, *Soft Matter* 8(41) (2012) 10650–10657.
  33. Reza A.S., Mechanisms of acid mist formation in electrowinning, PhD Thesis, James Cook University, 2012.
  34. Wu J., Q. Lei, C. Xiong, J. Zhang, J. Li, G. Cao, D. Liao, Y. Wang, M. Jia, N. Li, Y. Liu, C. He, Prospect of production optimization challenges of gas wells with liquid loading problem using new surfactant and nanotechnology, *Offshore Technology Conference, Proceedings*, 2 (2015) 1099–1108.
  35. Dutta S.K., E. Knowlton, D.L. Blair, Emulsions, Ch. 15, in: *Fluid, colloids and soft materials: An introduction to soft matter physics*, A. Fernandez-Nieves and A.M. Puertas (Eds.), John Wiley & Sons, 2016, 295–306.
  36. Gounley J., G. Boedec, M. Jaeger, M. Leonetti, Influence of surface viscosity on droplets in shear flow, *Journal of Fluid Mechanics* 791 (2016) 464–494.
  37. Bournival G., S. Ata, G.J. Jameson, Bubble and froth stabilizing agents in froth flotation, *Mineral Processing and Extractive Metallurgy Review* 38(6) (2017) 366–387.
  38. Dutta S.K., E. Knowlton, D.L. Blair, Emulsions, in: *Fluids, Colloids and Soft Materials: An Introduction to Soft Matter Physics* (2018) 296–306.
  39. Koyama M., K. Sugiyama, T. Watamura, F. Iwatsubo, S. Takagi, Numerical investigation of kinetics of gas-liquid interface and drainage suppression of a liquid film as approach of a single bubble to a flat wall, *Japanese Journal of Multiphase Flow* 32(1) (2018) 80–88.
  40. Wang Y., J.-N. Fan, Y. Yang, Y. Zhang, Z. Cao, T. Wang, Statistical analysis of jet drop generation based on bubble size measurements in the pickling process, *Building and Environments* 155 (2019) 25–33.
  41. Pfeiffer P., O. Zeng, B.H. Tan, C.-D. Ohl, Merging of soap bubbles and why surfactant matters, *Applied Physics Letters* 116 (2020) 103702.
  42. Wu J., W. Jia, C. Xian, Foaming agent developed for gas wells with liquid loading problem using new surfactant and nanotechnology, *SPE Journal* 7 (2020) 201249.
- 71 K.D. Danov, D.S. Valkovska, I.B. Ivanov, Effect of surfactants on the film drainage, J. Colloid Interface Sci. 211 (1999) 291–303. (брой: 84)**
1. Chester A.K., I.B. Bazhlekov, Effect of insoluble surfactants on drainage and rupture of a film between drops interacting under a constant force, *J. Colloid Interface Sci.* 230(2) (2000) 229–243.
  2. Magrabi S.A., B.Z. Dlugogorski, G.J. Jameson, Free drainage in aqueous foams: model and experimental study, *AIChE J.* 47(2) (2001) 314–327.
  3. Petkov J., N.D. Denkov, Dynamics of particles on interfaces and thin liquid films, In: *Encyclopedia of Surface and Colloid Science*, A. Hubbard, Ed.; Marcel Dekker, New York, 2001.
  4. Yeo L.Y., O.K. Matar, E.S.P. de Ortiz, G.F. Hewitt, The dynamics of Marangoni-driven local film drainage between two drops, *J. Colloid Interface Sci.* 241(1) (2001) 233–247.
  5. Magrabi S.A., B.Z. Dlugogorski, G.J. Jameson, A comparative study of drainage characteristics in AFFF and FFFP compressed-air fire-fighting foams, *Fire Safety J.* 37(1) (2002) 21–52.
  6. Petsev D., Mechanisms of emulsion flocculation, in: *Encyclopedia in Colloid and Surface Science*, 2002.
  7. Yeo L.Y., O.K. Matar, E.S. Perez de Ortiz, A description of phase inversion behavior in agitated liquid-liquid dispersions under the influence of the Marangoni effect, *Chem. Eng. Sci.* 57(17) (2002) 3505–3520.
  8. Coons J.E., P.J. Halley, S.A. McGlashan, A review of drainage and spontaneous rupture in free standing thin films with tangentially immobile interfaces, *Adv. Colloid Interface Sci.* 105 (2003) 3–62.
  9. Yeo L.Y., O.K. Matar, E.S. Perez de Ortiz, Film drainage between two surfactant-coated drops colliding at constant approach velocity, *J. Colloid Interface Sci.* 257(1) (2003) 93–107.
  10. Cristini V., Y.C. Tan, Theory and numerical simulation of droplet dynamics in complex flows – a review, *Lab on a Chip* 4(4) (2004) 257–264.
  11. Kapilashrami A., Interfacial Phenomena in Two-Phase Systems: Emulsions and Slag Foaming, PhD Thesis, Royal Institute of Technology, Stockholm, Sweden, 2004.
  12. Leal L.G., Flow induced coalescence of drops in a viscous fluid, *Phys. Fluids* 16(6) (2004) 1833–1851.
  13. Petsev D.N., Theory of emulsion flocculation, in: D.N. Petsev (Ed.), *Emulsions: Structure, Stability and Interactions*, Elsevier, London, 2004, Ch. 8, p. 313.

14. Schlieper L., M. Chatterjee, M. Henschke, A. Pfennig, Liquid-liquid phase separation in gravity settler with inclined plates, *AIChE Journal* 50(4) (2004) 802–811.
15. Tan S.N., D. Fornasiero, R. Sedev, J. Ralston, The interfacial conformation of polypropylene glycols and foam behaviour, *Colloids Surfaces A* 250(1–3) (2004) 307–315.
16. Makievski A.V., V.I. Kovalchuk, J. Kragel, M. Simoncini, L. Liggieri, M. Ferrari, P. Pandolfini, R. Miller, *Microgravity Sci. Techn.* 15 (2005) 215–218.
17. Beneventi D., M.N. Belgacem, B. Carre, Applied paper chemistry – influence of surfactant structure on bubble size and foaming in bubble columns: focus on flotation de-inking, *Nordic Pulp Paper Research Journal* 21(5) (2006) 702–709.
18. Jang S.S., W.A. Goddard, Structures and properties of Newton black films characterized using molecular dynamics simulations, *J. Phys. Chem. B* 110(15) (2006) 7992–8001.
19. Rother M.A., A.Z. Zinchenki, D.H. Davis, Surfactant effects on buoyancy-driven viscous interactions of deformable drops, *Colloids Surfaces A* 282–283 (2006) 50–60.
20. Talu E., M.M. Lozano, R.L. Powell, P.A. Dayton, M.L. Longo, Long-term stability by lipid coating monodisperse microbubbles formed by a flow-focusing device, *Langmuir* 22(23) (2006) 9487–9490.
21. Tan S.N., D. Fornasiero, R. Sedev, J. Ralston, The interfacial conformation of polypropylene glycols and their foam properties, *Minerals Eng.* 19(6–8) (2006) 703–712.
22. Anton N., P. Bouriart, Different surface corrugations occurring during drainage of axisymmetric thin liquid films, *Langmuir* 23(18) (2007) 9213–9220.
23. Beneventi D., M. Benesse, B. Carre, F.J. SaintAmand, L. Salgueiro, Modeling deinking selectivity in multistage flotation systems, *Separation and Purification Technology* 54(1) (2007) 77–87.
24. Hannisdal A., R. Orr, J. Sjoblom, Viscoelastic properties of crude oil components at oil–water interfaces. 2: Comparison of 30 oils, *J. Dispersion Sci. Technology* 28(3) (2007) 361–369.
25. Karakashev S.I., A.V. Nguyen, Effect of sodium dodecyl sulphate and dodecanol mixtures on foam film drainage: examining influence of surface rheology and intermolecular forces, *Colloids Surfaces A* 293(1–3) (2007) 229–240.
26. Beneventi D., J. Allix, E. Zeno, P. Nortier, Influence of surfactant concentration on the ink removal selectivity in a laboratory flotation column, *International Journal of Mineral Processing* 87(3–4) (2008) 134–140.
27. Golemanov K., N.D. Denkov, S. Tcholakova, M. Vethamuthu, A. Lips, Surfactant mixtures for control of bubble surface mobility in foam studies, *Langmuir* 24 (2008) 9956–9961.
28. Karakashev S.I., E.D. Manev, R. Tsekov, A.V. Nguyen, Effect of double-layer repulsion on foam film drainage, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 319(1–3) (2008) 34–42.
29. Karakashev S.I., E.D. Manev, R. Tsekov, A.V. Nguyen, Effect of ionic surfactants on drainage and equilibrium thickness of emulsion films, *Journal of Colloid and Interface Science* 318(2) (2008) 358–364.
30. Tcholakova S., N.D. Denkov, K. Golemanov, K.P. Ananthapadmanabhan, A. Lips, Theoretical model of viscous friction inside steadily sheared foams and concentrated emulsions, *Physical Review E – Statistical, Nonlinear, and Soft Matter Physics* 78(1) (2008) 011405.
31. Venturelly W.H., Estudos da atividade antiespumante de ésteres etílicos derivados de óleos vegetais, PhD Thesis, Faculty of Philosophy, Sciences and Languages of Ribeirão Preto, 2008.
32. Beneventi D., F. Almeida, N. Martin, D. Cutil, L. Salgueiro, M. Aourousseau, Hydrodynamics and recovered papers deinking in an ozone flotation column, *Chemical Engineering and Processing: Process Intensification* 48(11–12) (2009) 1517–1526.
33. Craig V.S., C.L. Henry, Specific ion effect at the air-water interface: Experimental study, *Specific Ion Effects* 2009, 191–214.
34. Denkov N.D., S. Tcholakova, K. Golemanov, K.P. Ananthapadmanabhan, A. Lips, The role of surfactant type and bubble surface mobility in foam rheology, *Soft Matter* 5 (2009) 3389–3408.
35. Henry C.L., Bubbles, Thin Films and Ion Specificity, PhD Thesis, The Australian National University, 2009.
36. Interfacial Rheology, R. Miller and L. Liggieri Eds., Ch. 12, 2009.
37. Arif S., Fracture mechanisms in quasi-two-dimensional aqueous foam, PhD Thesis, Northwestern University, 2010.
38. Arif S., J.C. Tsai, S. Hilgenfeldt, Speed of crack propagation in dry aqueous foam, *EPL* 92(3) (2010) Art. 38001.
39. Benevit D., O. Baudouin, P. Nortier, Semi-empirical modelling and management of flotation deinking banks, in: *Source: Process managements*, 2010, Ch. 7.
40. Craig V.S., C.L. Henry, Specific ion effects at the air-water interface, in: *Specific Ion Effects*, 2010, Ch. 7.

41. Grimes B.A., C.A. Dorao, S. Simon, E.L. Nordgard, J. Sjoblom, Analysis of dynamic surfactant mass transfer and its relationship to the transient stabilization of coalescing liquid-liquid dispersions, *Jornal of Colloid and Interface Science* 348(2) (2010) 479–490.
42. Gunes D.Z., X. Clain, O. Breton, G. Mayor, A.S. Burbidge, Avalanches of coalescence events and local extensional flows – Stabilisation or destabilisation due to surfactant, *J. Colloid Interface Sci.* 343(1) (2010) 79–86.
43. Karakashev S.I., D.S. Ivanova, Thin liquid film drainage: ionic vs. non-ionic surfactants, *J. Colloid Interface Sci.* 343 (2010) 584–593.
44. Karakashev S.I., D.S. Ivanova, Z.K. Angarska, E.D. Manev, R. Tsekov, B. Radoev, R. Slavchov, A.V. Nguyen, Comparative validation of the analytical models for the Marangoni effect on foam film drainage, *Colloids and Surfaces A* 365(1–3) (2010) 122–136.
45. Manor O., D.Y.C. Chan, Influence of surfactants on the force between two bubbles, *Langmuir* 26(2) (2010) 655–662.
46. Rane J., D. Harbottle, S. Banerjee, The effect of fluid dynamic shear and gravity on the stability of w/o surfactant stabilised emulsions, 7<sup>th</sup> North American Conference, 2010.
47. Alix J., E. Zeno, P. Nortier, D. Beneventi, Role of surfactants and fibres on fibre transport in a small flotation deinking column, *Chemical Engineering Journal* 168(2) (2011) 525–534.
48. Atta A., D.G. Crawford, C.R. Koch, S. Bhattacharjee, Influence of electrostatic and chemical heterogeneity on the electric-field-induced destabilization of thin liquid films, *Langmuir* 27(20) (2011) 12472–12485.
49. Del Castillo L.A., S. Ohnishi, R.G. Horn, Inhibition of bubble coalescence: effects of salt concentration and speed of approach, *J. Colloid Interface Sci.* 356(1) (2011) 316–324.
50. Karakashev S.I., D.S. Ivanova, Dynamic effects in thin films with different radii, *Годишник на СУ, Химически факултет*, 102/103 (2011) 103–121.
51. Zinchenko A.Z., M.A. Rother, R.H. Davis, Gravity-induced collisions of spherical drops covered with compressible surfactants, *J. Fluid Mechanics* 667 (2011) 369–402.
52. Bak A., W. Podgorska, Investigation of drop breakage and coalescence in the liquid-liquid system with nonionic surfactants Tween 20 and Tween 80, *Chemical Engineering Science* 74 (2012) 181–191.
53. Podgorska W., A. Bak, Modelling of drop coalescence in stirred liquid-liquid dispersions containing surfactants, 14<sup>th</sup> European Conference of Mixing, 2012, 383–388.
54. Tang H., S. Cui, influence of interfacial property on drop coalescence, *CIESC Journal* 63(4) (2012) 1140–1148.
55. Kamran K., S.L. Camie, Modeling the gentle bouncing of a drop with quasi-static thin film equations, *Chemical Engineering Science* 104 (2013) 361–373.
56. Kinawi El O.S., S. Petersen, K. Bergt, J. Ulrich, Influence of emulsifiers on the formation and crystallization of solid lipid nanoparticles, *Chemical Engineering and Technology* 36(12) (2013) 2174–2178.
57. Friberg S.E., S.H. Friberg, Emulsion formation, in: *Encyclopedia in Colloid and Interface Science*, 2013, 366–414.
58. Reichert M., L.M. Walker, Interfacial tension dynamics, interfacial mechanics, and response to rapid dilution of bulk surfactant of a model oil-water-dispersant system, *Langmuir* 29 (2013) 1857–1867.
59. Sjoblom J., P. Stenius, S. Simon, B.A. Grimes, Emulsion stabilization, in: *Encyclopedia in Colloid and Interface Science*, 2013, 415–545.
60. Alexandrova S., Film drainage and coalescence of drops in the presence of surfactant, *Journal of Chemical Technology and Metallurgy* 49(4) (2014) 321–328.
61. Karakashev S.I., E.D. Manev, Hydrodynamics of thin liquid films: Retrospective and perspective, *Advances in Colloid and Interface Science* 222 (2015) 398–412.
62. Petkov J.T., N.D. Denkov, Thin liquid films and interfaces: particle dynamics, in: *Encyclopedia of Surface and Colloid Science*, 2015, 7399–7414.
63. Reichert M., L.M. Walker, coalescence behavior of oil droplets coated in irreversibly-adsorbed surfactant layers, *Journal of Colloid and Interface Science* 449 (2015) 480–487.
64. Wang W., K. Li, M. Ma, H. Jin, P. Angeli, J. Gong, Review and perspectives of AFM application on the study of deformable drop/bubble interactions, *Advances in Colloid and Interface Science* 225 (2015) 88–97.
65. Wu J., Q. Lei, C. Xiong, J. Zhang, J. Li, G. Cao, D. Liao, Y. Wang, M. Jia, N. Li, Y. Liu, C. He, Prospect of production optimization challenges of gas wells with liquid loading problem using new surfactant and nanotechnology, *Offshore Technology Conference, Proceedings*, 2 (2015) 1099–1108.
66. Bak A., W. Podgorska, Influence of poly(vinyl alcohol) molecular weight on drop coalescence and breakage rate, *Chemical Engineering Research and Design* 108 (2016) 88–100.
67. Bazhlekova I., D. Vasileva, Numerical modeling of drop coalescence in the presence of soluble surfactants, *Journal of Computational and Applied Mathematics* 293 (2016) 7–19.



68. Dutta S.K., E. Knowlton, D.L. Blair, Emulsions, Ch. 15, in: Fluid, colloids and soft materials: An introduction to soft matter physics, A. Fernandez-Nieves and A.M. Puertas (Eds.), 2016, 295–306.
  69. Frostad J.M., D. Tammam, L. Santollani, S. Bochner de Araujo, G.G. Fuller, Dynamic fluid-film interferometry as a predictor of bulk foam properties, *Soft Matter* 12(46) (2016) 9266–9279.
  70. Podgorska W., D.L. Marchisio, Modeling of turbulent drop coalescence in the presence of electrostatic forces, *Chemical Engineering Research and Design* 108 (2016) 30–41.
  71. Sokolovic R.M.S., D.S. Sokolovic, D.D. Govedarica, Liquid-liquid separation using steady-state bed coalescer, *Hemijaska Industrija* 4 (2016) 367–381.
  72. Kim K., Y. Kim, J. Yang, K.-S. Ha, H. Usta, J. Lee, C. Kim, Enhanced mass transfer rate and solubility of methane via addition of alcohols for *Methylosinus trichosporium* OB3b fermentation, *Journal of Industrial and Engineering Chemistry* 46 (2017) 350–355.
  73. Marinova K.G., K.T. Naydenova, E.S. Basheva, F. Bauer, J. Tropsch, J. Franke, new surfactant mixtures for fine foams with slowed drainage, *Colloids and Surfaces A* 523 (2017) 54–61.
  74. Wang Z., B. Mandracchia, V. Ferraro, D. Tammam, E. Di Maio, P. L. Maffettone, P. Ferraro, Interferometric measurement of film thickness during bubble blowing, *Proc. SPIE 10333, Optical Methods for Inspection, Characterization, and Imaging of Biomaterials III*, 103331O (26 June 2017); doi: 10.1117/12.2274754.
  75. Luo X., H. Yin, H. Yan, X. Huang, D. Yang, L. He, The electrocoalescence behaviour of surfactant-laden droplet pairs in oil under a DC electric field, *Chemical Engineering Science* 191 (2018) 350–357.
  76. Shi Y., G.H. Tang, L.H. Cheng, H.Q. Shuang, An improved phase-field-based Lattice Boltzmann model for droplet dynamics with soluble surfactant, *Computers & Fluids* 179 (2019) 508–520.
  77. Vannozzi C., Effect of polymer-coated gold nanoparticle stabilizers on drop coalescence, *Physics of Fluids* 31 (2019) 082112.
  78. Gong S., N. Gao, L. Han, H. Luo, A theoretical model for bubble coalescence by coupling film drainage with approach processes, *Chemical Engineering Science* 213 (2020) 115387.
  79. Liu B., Fundamental study of bubble coalescence in solutions and on surfaces, PhD Thesis, University of Alberta, 2019.
  80. Choudhury A., V.K. Paidi, S.K. Kalpathy, H.N. Dixit, Enhanced stability of free viscous films due to surface viscosity, *Physics of Fluids* 32 (2020) 082108.
  81. Wu J., W. Jia, C. Xian, Foaming agent developed for gas wells with liquid loading problem using new surfactant and nanotechnology, *SPE Journal* 7 (2020) 201249.
  82. Chatzigiannakis E., Thin liquid films: Where hydrodynamics, capillary, interfacial stresses, and intermolecular forces meet, Ph.D. Thesis, ETH Zurich, 2021.
  83. Yang X., Model development for simulating bubble coalescence in disperse bubbly flows with the Euler-Lagrange approach, PhD Thesis, Technische Universität Dresden, Institute of Fluid Mechanics, 2021.
  84. Grassia P., H. Rajabi, R. Rosario, C. Torres-Ulloa, Surfactant transport upon foam films moving through porous media, *Colloids Surfaces A* 679 (2023) 132575.
- 70 K.D. Danov, P.M. Vlahovska, P.A. Kralchevsky, G. Broze, A. Mehreteab, Adsorption kinetics of ionic surfactants with detailed account for the electrostatic interactions: effect of the added electrolyte, *Colloids Surfaces A* 156 (1999) 389–411. (брой: 33)**
1. Bain C.D., S. Manning-Benson, R.C. Darton, Rates of mass transfer and adsorption of hexadecyltrimethylammonium bromide at an expanding air–water interface, *J. Colloid Interface Sci.* 229(1) (2000) 247–256.
  2. Treppner R., Adsorptionsschichten an Fluiden Grenzflächen: Skalengesetze & Ionenverteilungen, Dissertation, Universität Potsdam, Golm, 2000.
  3. Fainerman V.B., R. Wustneck, R. Miller, Surface tension of mixed surfactant solutions, *Tenside, Surfactants, Detergents* 38(4) (2001) 224–229.
  4. Gilanyi T., R. Meszaros, I. Varga, Adsorption of catanionic surfactants at air/solution interface, *Magy Kem. Foly* 107(11) (2001) 476–484.
  5. Koopal L.K., M.J. Avena, A simple model for adsorption kinetics at charged solid–liquid interfaces, *Colloids Surfactant* 192(1–3) (2001) 93–107.
  6. Kovalchuk V.I., E.K. Zholkovskiy, N.P. Bondarenko, D. Vollhardt, Dissociation of fatty acid and counterion binding at the Langmuir monolayer deposition: theoretical considerations, *J. Phys. Chem. B* 105(38) (2001) 9254–9265.
  7. Miller R., A.V. Makievski, V.B. Fainerman, in: *Surfactants: Chemistry, Interfacial Properties, Applications*, (Studies in Interface Science, Vol. 13), Elsevier, Amsterdam, 2001, p. 287.
  8. Mulqueen M., K.J. Stebe, D. Blankshtein, Dynamic interfacial adsorption in aqueous surfactant mixtures: theoretical study, *Langmuir* 17 (2001) 5196–5207.

9. Quigley W.W.C., A. Nabi, B.J. Prazen, N. Lenqhor, K. Grudpan, R.E. Synovec, Dynamic surface tension analysis of dodecyl sulfate association complexes, *Talanta* 55(3) (2001) 551–560.
10. Davis A.N., S.A. Morton III, R.M. Counce, in: The Proceedings of the 6th Annual Green Chemistry and Engineering Conference, Meeting Global Challenges, June 24–27, 2002.
11. Fainerman V.B., E.H. Lucassen-Reynders, Adsorption of single and mixed ionic surfactants at fluid interfaces, *Adv. Colloid Interface Sci.* 96(1–3) (2002) 295–323.
12. Fainerman V.B., R. Miller, E.V. Aksenenko, Simple model for prediction of surface tension of mixed surfactant solutions, *Adv. Colloid Interface Sci.* 96(1–3) (2002) 339–359.
13. Takahashi T., H. Yui, T. Sawada, Direct observation of dynamic molecular behavior at a water/nitrobenzene interface in a chemical oscillation system, *J. Phys. Chem. B* 106(9) (2002) 2314–2318.
14. Davis A.N., S.A. Morton III, R.M. Counce, D.W. DePaoli, M.Z.C. Hu, Ionic strength effects on hexadecane contact angles on a gold-coated glass surface in ionic surfactant solutions, *Colloids Surfaces A* 221(1–3) (2003) 69–80.
15. Frese Ch., S. Ruppert, M. Sugár, H. Schmidt-Lewerkühne, K.P. Wittern, V.B. Fainerman, R. Eggers, R. Miller, Adsorption kinetics of surfactant mixtures from micellar solutions as studied by maximum bubble pressure technique, *J. Colloid Interface Sci.* 267(2) (2003) 475–482.
16. Paria S., Studies of surfactant adsorption at the cellulose–water interface, PhD Thesis, Indian Institute of Technology, Bombay, 2003.
17. Helvaci S.S., S. Peker, G. Ozdemir, Effect of electrolytes on the surface behavior of rhamnolipids R1 and R2, *Colloids Surfaces B* 35(3–4) (2004) 225–233.
18. Dahlan D., A.R. Daud, S. Radiman, R. Yahya, Pengendapan lapisan tipis nikel dan sifat korosinya, *Paksy Journal*, 2005, 74–78.
19. Kovalchuk V.I., D. Vollhardt, Ion redistribution and meniscus stability at Langmuir monolayer deposition, *Adv. Colloid Interface Sci.* 114–115 (2005) 267–279.
20. Lu F.F., L.Q. Zheng, Y.A. Gao, G.Z. Li, Z.H. Tong, Effect of sodium halide on dynamic surface tension of a cationic surfactant, *Chinese Journal of Chemistry* 23(8) (2005) 957–962.
21. Paria S., C. Manohar, K.C. Khilar, Kinetics of adsorption of anionic, cationic, and nonionic surfactants, *Ind. Eng. Chem. Res.* 44(9) (2005) 3091–3098.
22. Stubenrauch C., V.B. Fainerman, E.V. Aksenenko, R. Miller, Adsorption behavior and dilational rheology of the cationic alkyl trimethylammonium bromides at the water/air interface, *J. Phys. Chem. B* 109(4) (2005) 1505–1509.
23. Para G., E. Jarek, P. Warszynski, The Hofmeister series effect in adsorption of cationic surfactants—theoretical description and experimental results, *Adv. Colloid Interface Sci.* 122(1–3) (2006) 39–55.
24. Moorkanikkara S.N., Development of novel methodologies to analyze the adsorption kinetics of nonionic surfactants, PhD Thesis, MIT, 2007.
25. Fainerman V.B., E.V. Aksenenko, S.V. Lylyk, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of mixed sodium dodecyl sulfate/C nEOM solutions 1. Dynamic and equilibrium surface tension, *Langmuir* 26(1) (2010) 284–292.
26. De Ruiter R., R.W. Tjerkstra, M.H.G. Duits, F. Mugele, Influence of cationic composition and pH on the formation of metal stearates at oil-water interfaces, *Langmuir* 27(14) (2011) 8738–8747.
27. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Equilibrium adsorption layer characteristics of mixed sodium dodecyl sulphate/Triton solutions, *Colloids and Surfaces* 385(1–3) (2011) 139–143.
28. Hezave A.Z., S. Dorostkar, S. Ayatollah, M. Nabipour, B. Hemmateenejad, Dynamic interfacial tension behavior between heavy crude oil and ionic liquid solution (1-dodecyl-3-methylimidazolium chloride ([C<sub>12</sub>mim][Cl] + distilled or saline water/heavy crude oil)) as a new surfactant, *Journal of Molecular Liquids* 187 (2013) 83–89.
29. Fainerman V.B., E.V. Aksenenko, N. Mucic, A. Javadi, R. Miller, Thermodynamics of adsorption of ionic surfactants at water/alkane interface, *Soft Matter* 10(36) (2014) 6873–6887.
30. Delroisse H., J.-P. Torre, C. Dicharry, Effect of hydrophilic cationic surfactant on cyclopentane hydrate crystal growth at the water/cyclopentane interface, *Crystal Growth and Design* 17(10) (2017) 509–5107.
31. Frackowiak R., G. Para, L. Lamch, L. Szyk-Warszynska, A. Wilk Kazimiera, P. Warszynski, Adsorpcja dwufunkcyjnych labilnych surfaktantów kationowych na granicy faz ciecz/gaz : opis za pomocą modelu kwazi-dwuwymiarowego elektrolitu, *Waldomosci Chemiczne* 75 (2021) 1119–1155.
32. Firouzi M., V.I. Kovalchuk, G. Loglio, R. Miller, Salt effect on the dilatational viscoelasticity of surfactant adsorption layers, *Current Opinion in Colloid and Interface Science* 57 (2022) 101538.
33. Warszynski P., L. Szyk-Warszynska, K.A. Wilk, Lamch, Adsorption of cationic multicharged surfactants at liquid-gas interface, *Current Opinion in Colloid and Interface Science* 59 (2022) 101577.

- 69 **P.A. Kralchevsky, K.D. Danov, G. Broze, A. Mehreteab, Thermodynamics of ionic surfactant adsorption with account for the counterion binding: effect of salts of various valency, *Langmuir* 15(7) (1999) 2351–2365. (брой: 211)**
1. Fainerman V.B., D. Vollhardt, R. Johann, Arachidic acid monolayers at high pH of the aqueous subphase: studies of counterion bonding, *Langmuir* 16(20) (2000) 7731–7736.
  2. Kruglyakov P.M., *Hydrophile – Lipophile Balance of Surfactants and Solid Particles* (Studies in Interface Science, Vol. 9), Elsevier, Amsterdam, 2000, p. 26 and p. 93.
  3. Teppner R., *Adsorptionsschichten an fluiden grenzflaechen: skalengesetze & ionenverteilungen*, PhD Thesis, Max Plank Institute, Golm, 2000.
  4. Datwani S.S., K.J. Stebe, Monolayer penetration by a charged amphiphile: equilibrium and dynamics, *Colloids Surfaces A* 192(1–3) (2001) 109–129.
  5. Fainerman V.B., R. Miller, in: *Surfactants: Chemistry, Interfacial Properties, Applications*, (Studies in Interface Science, Vol. 13), Elsevier, Amsterdam, 2001, p. 99.
  6. Fainerman V.B., R. Wustneck, R. Miller, Surface tension of mixed surfactant solutions, *Tenside, Surfactants, Detergents* 38(4) (2001) 224–229.
  7. Karakashev S., R. Tsekov, E. Manev, Adsorption of alkali dodecyl sulfates on air/water surface, *Langmuir* 17(17) (2001) 5403–5405.
  8. Kovalchuk V.I., E.K. Zholkovskiy, N.P. Bondarenko, D. Vollhardt, Dissociation of fatty acid and counterion binding at the Langmuir monolayer deposition: theoretical considerations, *J. Phys. Chem. B* 105(38) (2001) 9254–9265.
  9. Miller R., J. Kraegel, V.B. Fainerman, A.V. Makievski, D.O. Grigoriev, F. Ravera, L. Liggieri, D.Y. Kwok, A.W. Neumann, in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, pp. 1–45.
  10. Miller R.; Fainerman, V.B., Surfactant adsorption layers at liquid–fluid interfaces, Chapter 6 in *Handbook of Surfaces and Interfaces of Materials*, Hari Singh Nalwa (Ed.), Academic Press, 2001; p. 420.
  11. Prosser A.J., E.I. Franses, Adsorption and surface tension of ionic surfactants at the air–water interface: review and evaluation of equilibrium models, *Colloids Surfaces A* 178(1–3) (2001) 1–40.
  12. Prosser A.J., E.I. Franses, Modeling of equilibrium adsorption and surface tension of cationic gemini surfactants, *J. Colloid Interface Sci.* 240(2) (2001) 590–600.
  13. Warszynski P., K.D. Wantke, H. Fruhner, Theoretical description of surface elasticity of ionic surfactants, *Colloids Surfaces A* 189(1–3) (2001) 29–53.
  14. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
  15. Castro Dantas T.N., E. Ferreira Moura, H. Scatena Jr., A.A. Dantas Neto, A. Gurgel, Micellization and adsorption thermodynamics of novel ionic surfactants at fluid interfaces, *Colloids Surfaces A* 207(1–3) (2002) 243–252.
  16. Fainerman V.B., E.H. Lucassen-Reynders, Adsorption of single and mixed ionic surfactants at fluid interfaces, *Adv. Colloid Interface Sci.* 96(1–3) (2002) 295–323.
  17. Fainerman V.B., R. Miller, E.V. Aksenenko, Simple model for prediction of surface tension of mixed surfactant solutions, *Adv. Colloid Interface Science* 96(1–3) (2002) 339–359.
  18. Karakashev S.I., E.D. Manev, Effect of interactions between the adsorbed species on the properties of single and mixed–surfactant monolayers at the air/water interface, *J. Colloid Interface Sci.* 248(2) (2002) 477–486.
  19. Randolph T., *Adsorptionsschichten am fluiden Granzflaechen: Skalengesetze und Ionenverteilungen*, PhD Thesis, Potsdam University, 2002.
  20. Stoyanov S., *Theory and simulation of interfacial effects and phase behaviour of nonionic surfactants*, PhD Thesis, Essen University, 2002.
  21. Takahashi T., H. Yui, T. Sawada, Direct observation of dynamic molecular behavior at a water/nitrobenzene interface in a chemical oscillation system, *J. Phys. Chem. B* 106(9) (2002) 2314–2318.
  22. Tsekov R., P. Letocart, E. Evstatieva, H.J. Schulze, Effect of ionic surfactants on the dimple relaxation in wetting films, *Langmuir* 18(15) (2002) 5799–5803.
  23. Warszynski P., K. Lunkenheimer, G. Czichocki, Effect of counterions on the adsorption of ionic surfactants at fluid–fluid interfaces, *Langmuir* 18(7) (2002) 2506–2514.
  24. Каракашев Ст.И., Е.Д. Манев, Адсорбция на йонни ПАВ на повърхността вода/въздух, Сборник научни трудове, Химия, Ун. Изд. ”Еп. Константин Преславски”, Шумен, 2002, 157–162.
  25. Каракашев Ст.И., Р.Ц. Цеков, Е.Д. Манев, Нов модел за описание на адсорбционното поведение на йонни ПАВ на повърхността вода/въздух, Сборник научни трудове, Химия, Ун. Изд. ”Еп. Константин Преславски”, Шумен, 2002, 146–156.

26. Angarska J.K., E.D. Manev, Effect of tetrapentyl ammonium bromide adsorption on the electrostatic interactions in aqueous octaethyleneglycol decylether foam films, *Colloids Surfaces A* 223(1–3) (2003) 73–82.
27. Battal T., G.S. Shearman, D. Valkovska, C.D. Bain, Determination of the dynamic surface excess of a homologous series of cationic surfactants by ellipsometry, *Langmuir* 19(4) (2003) 1244–1248.
28. Kang K.H., I.S. Kang, C.M. Lee, Electrostatic contribution to line tension in a wedge-shaped contact region, *Langmuir* 19(22) (2003) 9334–9342.
29. Karakashev S.I., E.D. Manev, Correlation in the properties of aqueous single films and foam containing a nonionic surfactant and organic/inorganic electrolytes, *J. Colloid Interface Sci.* 259(1) (2003) 171–179.
30. Kolaric B., W. Jaeger, G. Hedicke, R. von Klitzing, Tuning of foam film thickness by different (poly) electrolyte/surfactant combinations, *J. Phys. Chem. B* 107(32) (2003) 8152–8157.
31. Para G., E. Jarek, P. Warszynski, Z. Adamczyk, Effect of electrolytes on surface tension of ionic surfactant solutions, *Colloids Surfaces A* 222(1–3) (2003) 213–222.
32. Stoyanov S.D., H. Rehage, V.N. Paunov, Novel surface tension isotherm for surfactants based on local density functional theory, *Phys. Rev. Lett.* 91(8) (2003) 861021–861024.
33. Stubenrauch C., R. von Klitzing, Disjoining pressure in thin liquid foam and emulsion films – new concepts and perspectives, *J. Physics: Condens Matter* 15(27) (2003) R1197–R1232.
34. Taylor C.D., D.S. Valkovska, C.D. Bain, A simple and rapid method for the determination of the surface equations of state and adsorption isotherms for efficient surfactants, *Phys. Chem. Chem. Phys.* 5(21) (2003) 4885–4891.
35. Trizac E., L. Bocquet, M. Aubouy, H.H. von Grunberg, Alexander's prescription for colloidal charge renormalization, *Langmuir* 19(9) (2003) 4027–4033.
36. Giokas D.L., G.Z. Tsogas, A.G. Vlessidis, M.I. Karayannis, Metal ion determination by flame atomic absorption spectrometry through reagentless coacervate phase separation–extraction into lamellar vesicles, *Anal. Chem.* 76(5) (2004) 1302–1309.
37. Karakashev S., E. Manev, A. Nguyen, Interpretation of negative values of the interaction parameter in the adsorption equation through the effects of surface layer heterogeneity, *Adv. Colloid Interface Sci.* 112(1–3) (2004) 31–36.
38. Morton III S.A., Prediction of organic droplet behaviour on a solid surface as influenced by aqueous surfactant solutions, PhD Thesis, The University of Tennessee, Knoxville, 2004.
39. Ramirez A.G., R.G. Lopez, K. Tauer, Studies on semibatch microemulsion polymerization of butyl acrylate: influence of the potassium peroxodisulfate concentration, *Macromolecules* 37(8) (2004) 2738–2747.
40. Sekine M., R.A. Campbell, D.S. Valkovska, J.P.R. Day, T.D. Curwen, L.J. Martin, S.A. Holt, J. Eastoe, C.D. Bain, Adsorption kinetics of ammonium perfluorononanoate at the air–water interface, *Phys. Chem. Chem. Phys.* 6 (21) (2004) 5061–5065.
41. Stoyanov S.D., V.N. Paunov, H. Rehage, H. Kuhn, A new class of interfacial tension isotherms for nonionic surfactants based on local self-consistent mean field theory: classical isotherms revisited, *Phys. Chem. Chem. Phys.* 6(3) (2004) 596–603.
42. Tcholakova S., N.D. Denkov, T. Danner, Role of surfactant type and concentration for the mean drop size during emulsification in turbulent flow, *Langmuir* 20(18) (2004) 7444–7458.
43. Tsogas G.Z., D.L. Giokas, A.G. Vlessidis, N.P. Evmiridis, A single-reagent method for the speciation of chromium in natural waters by flame atomic absorption spectrometry based on vesicular liquid coacervate extraction, *Spectrochimica Acta Part B – Atomic Spectroscopy* 59 (7) (2004) 957–965.
44. Valkovska D.S., G.C. Shearman, C.D. Bain, R.C. Darton, J. Eastoe, Adsorption of ionic surfactants at an expanding air–water interface, *Langmuir* 20(11) (2004) 4436–4445.
45. Wang L., R.-H. Yoon, Hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: effect of electrolyte, *Langmuir* 20(26) (2004) 11457–11464.
46. Atkin R., J. Eastoe, E.J. Wanless, C.D. Bain, Dynamics of adsorption of cationic surfactants at air–water and solid–liquid Interfaces, in: R. Zana (Ed.), *Dynamics of Surfactant Self-Assemblies: Micelles, Microemulsions, Vesicles and Lyotropic Phases*, CRC Press, New York, 2005.
47. Gurkov T.D., D.T. Dimitrova, K.G. Marinova, C. Bilke–Crause, C. Gerber, I.B. Ivanov, Ionic surfactants on fluid interfaces: determination of the adsorption; role of the salt and the type of the hydrophobic phase, *Colloids Surfaces A* 261(1–3) (2005) 29–38.
48. Koelsch P., H. Motschmann, Varying the counterions at a charged interface, *Langmuir* 21(8) (2005) 3436–3442.
49. Mishra N.C., R.M. Muruganathan, H.-J. Müller, R. Krustev, The dependence of the interactions in foam films on surfactant concentration, *Colloids Surfaces A* 256(1) (2005) 77–83.



50. Para G., E. Jarek, P. Warszynski, The surface tension of aqueous solutions of cetyltrimethylammonium cationic surfactants in presence of bromide and chloride counterions, *Colloids Surfaces A* 261(1–3) (2005) 65–73.
51. Stubenrauch C., V.B. Fainerman, E.V. Aksenenko, R. Miller, Adsorption behavior and dilational rheology of the cationic alkyl trimethylammonium bromides at the water/air interface, *J. Phys. Chem. B* 109(4) (2005) 1505–1509.
52. Travesset A., Salty solutions near a charged modulated interface, *Europ. Phys. J. E* 17(4) (2005) 435–446.
53. Von Klitzing R., Effect of interface modification on forces in foam films and wetting films, *Adv. Colloid Interface Sci.* 114–115 (2005) 253–266.
54. Wang L.G., R.H. Yoon, Hydrophobic forces in thin aqueous films and their role in film thinning, *Colloids Surfaces A* 263(1–3) (2005) 267–274.
55. Wang L.G., R.H. Yoon, in: C.A. Young, J.J. Kellar, M.L. Free, J. Drelich, P. King (Eds.), *Innovations in Natural Resource Processing: Proceedings of the Jan D. Miller Symposium*, Publisher: Society of Mining Metallurgy and Exploration, Littleton, Co, USA, 2005, pp. 130–137.
56. Zhmud B., F. Tiberg, Interfacial dynamics and structure of surfactant layers, *Adv. Colloid Interface Sci.* 113(1) (2005) 21–42.
57. Basheva E.S., T.D. Gurkov, N.C. Christov, B. Campbell, Interactions in oil/water/oil films stabilized by  $\beta$ -lactoglobulin; role of the surface charge, *Colloids Surfaces A* 282–283 (2006) 99–108.
58. Bivas I., Electrostatic and mechanical properties of a flat lipid bilayer containing ionic lipids. Possibility for formation of domains with different surface charges, *Colloids Surfaces A* 282–283 (2006) 423–434.
59. Chatteraj D.K., E. Halder, K.P. Das, A. Mitra, Surface activity coefficients of spread monolayers of behenic acid salts at air–water interface, *Adv. Colloid Interface Sci.* 123–126 (2006) 151–161.
60. Custers J.P.A., Thermo–reversible binding of multivalent ions by surfactant self–assembly, PhD Thesis, Eindhoven University of Technology, The Netherlands, 2006.
61. Ivanov I.B., K.P. Ananthapadmanabhan, A. Lips, Adsorption and structure of the adsorbed layer of ionic surfactants, *Adv. Colloid Interface Sci.* 123–126 (2006) 189–212.
62. Jarek E., P. Wydro, A. Warszynski, M. Paluch, Surface properties of mixtures of surface–active sugar derivatives with ionic surfactants: theoretical and experimental investigations, *J. Colloid Interface Sci.* 293(1) (2006) 194–202.
63. Kumar M.K., T. Mitra, P. Ghosh, Adsorption of ionic surfactants at liquid–liquid interfaces in the presence of salt: application in binary coalescence of drops, *Ind. Eng. Chem. Res.* 45(21) (2006) 7135–7143.
64. Para G., E. Jarek, P. Warszynski, The Hofmeister series effect in adsorption of cationic surfactants–theoretical description and experimental results, *Adv. Colloid Interface Sci.* 122 (1–3) (2006) 39–55.
65. Schulze–Schlarmann J., N. Buchavzov, C. Stubenrauch, A disjoining pressure study of foam films stabilized by tetradecyl trimethyl ammonium bromide C14TAB, *Soft Matter* 2(7) (2006) 584–594.
66. Wang L., R.–H. Yoon, Stability of foams in the presence of ionic and non-ionic surfactants, *IMPC 2006, Proceedings*, 2006, 453–458.
67. Wang L., *Surface Forces in Foam Films*, PhD Thesis, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA, 2006.
68. Hantal G., L.B. Partay, I. Varga, P. Jedlovsky, T. Gilanyi, Counterion and surface density dependence of the adsorption layer of ionic surfactants at the vapor – aqueous solution interface: a computer simulation study, *J. Phys. Chem. B* 111(7) (2007) 1769–1774.
69. Knauf K., *Physikochemische Charakterisierung homologer kationischer Tenside und deren Wechselwirkung mit Modellmembranen bestehend aus DMPC und DMPG*, PhD Thesis, Naturwissenschaftlichen Fakultät II–Chemie und Physik der Martin–Luther–Universität, Halle–Wittenberg, Germany, 2007.
70. Para G., P. Warszynski, Cationic surfactant adsorption in the presence of divalent ions, *Colloids Surfaces A* 300(3) (2007) 346–352.
71. Aleiner G.S., O.G. Us'yarov, Adsorption of ions in the diffuse part of an electrical double layer at ionic surfactant solution–air interfaces in the presence of background electrolytes, *Colloid Journal* 70(3) (2008) 263–267.
72. Bershteyn A., J. Chaparro, R. Yau, M. Kim, E. Reinherz, L. Ferreira–Moita, D.J. Irvine, Polymer–supported lipid shells, onions, and flowers, *Soft Matter* 4(9) (2008) 1787–1791.
73. Gilanyi T., I. Varga, C. Stubenrauch, R. Mescaros, Adsorption of alkyl trimethylammonium bromides at the air/water interface, *J. Colloid Interface Sci.* 317(2) (2008) 395–401.
74. Giribabu K., M.L.N. Reddy, P. Ghosh, Coalescence of air bubbles in surfactant solutions: Role of salts containing mono–, di–, and trivalent ions, *Chemical Engineering Communications* 195(3) (2008) 336–351.

75. Karakashev S.I., A.V. Nguyen, J.D. Miller, Equilibrium adsorption of surfactants at the gas–liquid interface, *Advances in Polymer Science* 218(1) (2008) 25–55.
76. Manev E.D., S.V. Sazdanova, R. Tsekov, S.I. Karakashev, A.V. Nguyen, Adsorption of ionic surfactants, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 319(1–3) (2008) 29–33.
77. Morton III S.A., D.J. Keffer, A.N. Davis, R.M. Counce, Effect of low concentration salt on organic contact angle in ionic surfactant solutions: Insight from theory and experiment, *Separation Science and Technology* 43 (2) (2008) 310–330.
78. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
79. Song S.L., Z.G. Hu, Q.K. Wang, G. Cheng, X.H. Liu, Physicochemical properties and surface tension prediction of mixed surfactant systems: Triton X–100 with dodecylpyridinium bromide and Triton X–100 with sodium dodecylsulfonate, *Journal of Dispersion Science and Technology* 29(5) (2008) 763–768.
80. Bommaganti P.K., M. Vijay Kumar, P. Ghosh, Effect of binding of counterions on adsorption and coalescence, *Chemical Engineering Research and Design* 87 (2009) 728–738.
81. Ghosh P., *Bubble Science, Engineering & Technology* 1(1–2) (2009) 75–87.
82. Raut J.S., S. Akella, A.K. Singh, V.M. Naik, Catastrophic Drop Breakup in Electric Field, *Langmuir* 25(9) (2009) 4829–4834.
83. Tagashira H., Y. Takata, A. Hyono, H. Ohshima, Adsorption of surfactant ions and binding of their counterions at an air/water interface, *J. Oleo Sci.* 58(6) (2009) 285–293.
84. Aleiner G.S., O.G. Ys'yarov, Electrical double layer at ionic surfactant solution–air interface, *Colloid Journal* 72(6) (2010) 731–736.
85. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Adsorption layer characteristics of mixed oxyethylated surfactant solutions, *Jornal of Physical Chemistry B* 144(13) (2010) 4503–4508.
86. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Adsorption layer characteristics of multi-component surfactants solutions, *Soft Matter* 6(19) (2010) 4694–4700.
87. Fainerman V.B., E.V. Aksenenko, S.V. Lylyk, J.T. Petkov, J. Yorke, R. Miller, Adsorption layer characteristics of mixed sodium dodecyl sulfate/C nEOM solutions 1. Dynamic and equilibrium surface tension, *Langmuir* 26(1) (2010) 284–292.
88. Groot R.D., S.D. Stoyanov, Equation of state of surface–adsorbing colloids, *Soft Matter* 6(8) (2010) 1682–1692.
89. Guerss A., S. Karaca, F. Aksakal, M. Acikyildyz, Monomer and micellar adsorptions of CTAB onto the clay/water interface, *Desalination* 264(12) (2010) 165–172.
90. Gurser A., S. Karaca, F. Aksakal, Acikyildiz M., Monomer and micellar adsorptions of CTAB onto the clay/water interface, *Desalination* 264(1–2) (2010) 165–172.
91. Klapper P., *Tensiometrische Stofftransportuntersuchungen der Zinkextraktion mit dem Kationenaustauscher Di(2-ethylhexyl)phosphorsäure*, PhD Thesis, TU Bergakademie, Freiberg, Germany, 2010.
92. Skrzela R., G. Para, P. Warszynski, K.A. Wilk, Experimental and theoretical approach to nonequivalent adsorption of novel dicephalic ammonium surfactants at the air/solution interface, *Journal of Physical Chemistry B* 114(32) (2010) 10471–10480.
93. Takata Y., H. Tagashira, A. Hyono, H. Ohshima, Effect of counterion and configurational entropy on the surface tension of aqueous solutions of ionic surfactant and electrolyte mixtures, *Entropy* 12(4) (2010) 983–995.
94. Wang C., H. Morgner, Effect of counterions of adsorption behavior of anionic surfactants on solution surface, *Langmuir* 26(5) (2010) 3121–3125.
95. Wojciechowski K., M. Kucharek, W. Wroblewski, P. Warszynski, On the origin of the Hofmeister effect in anion–selective potentiometric electrodes with tetraalkylammonium salts, *Journal of Electroanalytical Chemistry* 638 (2010) 204–211.
96. Fainerman V.B., E.V. Aksenenko, J.T. Petkov, R. Miller, Equilibrium adsorption layer characteristics of mixed sodium dodecyl sulphate/Triton solutions, *Colloids and Surfaces* 385(1–3) (2011) 139–143.
97. Jimmi B., S. Kentish, M. Ashokkumar, Dynamics of counterion binding during acoustic nebulisation of surfactant solutions, *Ultrasonics Sonochemistry* 18(5) (2011) 958–962.
98. Kristen-Hochrein N., N. Schelero, R. Bon Klitzing, Effects of oppositely charged surfactants on the stability of foam films, *Colloid and Surfaces A* 382(1–3) (2011) 165–173.
99. Ritacco H., D. Langevin, H. Diamant, D. Andelman, Dynamic surface tension of aqueous solutions of ionic surfactants: role of electrostatics, *Langmuir* 27(3) (2011) 1009–1014.
100. Wang C., H. Morgner, At the surface of non-aqueous solutions of anionic surfactants, *Colloid and Polymer Science* 289(8) (2011) 967–970.
101. Wang C., H. Morgner, The competitive adsorption of counter-ions at the surface of anionic surfactants solution, *Physical Chemistry Chemical Physics* 13(9) (2011) 3881–3885.

102. Yoon R.-H., L. Wang, Hydrophobic forces in foam films; in: *Colloid Stability: The Role of Surface Forces*, 2011, Ch. 7.
103. Bernardini C., Structure of binary mixed polymer Langmuir layers, PhD Thesis, Vageningen University, 2012.
104. Chanda S., D. Das, J. Das, K. Ismail, Adsorption characteristics of sodium dodecylsulfate and cetylpyridinium chloride at air/water, air/formamide and air/water formamide interfaces, *Colloid Surfaces A* 399 (2012) 56–61.
105. Chang C.-C., Adsorption kinetics of dioctyl sodium sulfosuccinate in aqueous NaCl solution, MSc. Thesis, National Taiwan University of Science and Technology, 2012.
106. Dey J., Studies on the micellization behavior of surfactants in selected solvent media, PhD Thesis, North-Eastern Hill University, 2012.
107. Dey J., U. Thapa, K. Ismail, Aggregation and adsorption of sodium dioctylsulfosuccinate in aqueous ammonium chloride solution: Role of mixed counterions, *J. Colloid Interface Sci.* 367(1) (2012) 305–310.
108. Fainerman V.B., S.V. Lylyk, E.V. Aksenenko, N.M. Kovalchuk, V.I. Kovalchuk, J.T. Petkov, R. Miller, Effect of water hardness on surface tension and dilatational visco-elasticity of sodium dodecyl sulphate solutions, *Journal Colloid and Interface Science* 377(1) (2012) 1–6.
109. Imai Y., H. Takumi, H. Tanida, I. Watanabe, T. Takiue, H. Matsubara. M. Aratono, Study of the distribution of binary mixed counterions in surfactant adsorbed films by total reflection XAFS measurements, *J. Colloid Interface Science* 388(1) (2012) 219–224.
110. Li X., P. Stevenson, Foam fractionation, in: *Foam Engineering: Fundamentals and Applications*, 2012, Ch. 14.
111. Liao Y.-C., Adsorption kinetics of sodium dodecylsulfate aqueous solution with NaCl, MSc. Thesis, National Taiwan University of Science and Technology, 2012.
112. Singh O.G., K. Ismail, Effect of sodium chloride on the aggregation, adsorption and counterion binding behavior of mixture of sodium dioctylsulfosuccinate and sodium dodecyl sulfate in water, *Colloid Surfaces A* 414 (2012) 209–215.
113. Slavchov R., S.I. Karakashev, I.B. Ivanov, Ionic surfactants and ion-species effects: adsorption; micellization; thin liquid films, in: *Surfactant Science and Technology: Retrospects and Prospects*, Taylor and Frances, 2012.
114. Slavchov R., J.K. Novev, Surface tension of concentrated electrolyte solutions, *Journal of Colloid and Interface Sci.* 387(1) (2012) 234–243.
115. Banik M., P. Ghosh, The electroviscous effect at fluid-fluid interfaces, *Industrial and Engineering Chemistry Research* 52(4) (2013) 1581–590.
116. Bernardini C., S.D. Stoyanov, L.N. Arnaudov, M.A. Cohen Stuart, Colloids in Flatland: a perspective on 2D phase-separated systems, characterisation methods, and lineactant design, *Chemical Society Reviews* 42(5) (2013) 2100–2129.
117. Brzozowska A.M., F. Mugele, M.H.G. Duits, Stability and interactions in mixed monolayers of fatty acid derivatives on Artificial Sea Water, *Colloid Surfaces A* 433 (2013) 200–211.
118. Fleckenstein S., D. Bothe, Simplified modeling of the influence of surfactants on the rise of bubbles in VOF-simulations, *Chemical Engineering Science* 102 (2013) 514–523.
119. Karakashev S.I., A.V. Nguyen, R. Tsekov, Effect of the adsorption component of the disjoining pressure on foam film drainage, *Colloid Journal* 75(2) (2013) 176–180.
120. Kuo C.-C., A theoretical study of ionic surfactant adsorption kinetics, National Taiwan University of Science and Technology, 2013.
121. Saïen J., F. Moghaddamnia, M. Mishi, Simultaneous influence of uni-univalent salt aqueous solutions and sodium dodecyl sulfate surfactant on interfacial tension of toluene-water, *Korean Journal of Chemical Engineering* 30(5) (2013) 1125–1130.
122. Saïen J., S. Asadabadi, Temperature effect on adsorption of imidazolium-based ionic liquids at liquid-liquid interface, *Colloid Surfaces A* 431 (2013) 34–41.
123. Slavchov R.I., I.M. Dimitrova, I.B. Ivanov, Cohesive and non-cohesive adsorption of surfactants at liquid interfaces, *Understanding Complex Systems* (2013) 199–225.
124. Slavchov R.I., J.K. Novev, T.V. Peshkova, N.A. Grozev, Surface tension and surface  $\delta\chi$ -potential of concentrated Z<sup>+</sup>:Z<sup>-</sup> electrolyte solutions, *J. Colloid Interface Sci.* 403 (2013) 113–126.
125. Takata Y., H. Tagashira, A. Hyono, H. Ohshima, Effect of counterion and configurational entropy on the surface tension of aqueous solutions of ionic surfactant and electrolyte mixtures, *Entropy* 115(4) (2013) 983–995.
126. Behera M.R., S.R. Varade, P. Ghosh, P. Paul, A.S. Negi, Foaming in micellar solutions: Effects of surfactants, salts, and oil concentrations, *Industrial and Engineering Chemistry Research* 53(48) (2014) 18497–18507.

127. Chen M., X. Lu, X. Liu, Q. Hou, Y. Zhu, H. Zhou, Temperature-dependent phase transition and desorption free energy of sodium dodecyl sulphate at the water/vapour interface: Approaches from molecular dynamics simulations, *Langmuir* 30(35) (2014) 10600–10607.
128. Dai C., J. Zhao, L. Yan, M. Zhao, Adsorption behavior of cocamidopropyl betaine under conditions of high temperature and high salinity, *Journal of Applied Polymer Science* 131(12) (2014) 40424.
129. Erramreddy V.V., S. Ghosh, Influence of emulsifier concentration on nanoemulsion gelation, *Langmuir* 30(37) (2014) 11062–11074.
130. Fainerman V.B., E.V. Aksenenko, N. Mucic, A. Javadi, R. Miller, Thermodynamics of adsorption of ionic surfactants at water/alkane interface, *Soft Matter* 10(36) (2014) 6873–6887.
131. Garche H., K.F. Lam, B. Stinner, Diffuse interface modelling of soluble surfactants in two-phase flow, *Communications in Mathematical Sciences* 12(8) (2014) 1475–1522.
132. Ghosh P., M. Banik, Effects of salts containing mono-, di-, and trivalent ions on electrical and rheological properties of oil-water interface in presence of cationic surfactant: importance in the stability of oil-in-water emulsions, *Journal of Dispersion Science and Technology* 35(4) (2014) 471–481.
133. Karakashev S.I., How to determine the adsorption energy of the surfactant's hydrophilic head? How to estimate easily the surface activity of every simple surfactant? *J. Colloid Interface Sci.* 432 (2014) 98–104.
134. Lam K.F., Diffuse interface model of soluble surfactants in two-phase fluid flow, PhD Thesis, 2014, University of Warwick.
135. Lin C.-H., A study on the adsorption kinetics of ionic surfactants and evaporation behavior of sessile drop, PhD Thesis, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2014.
136. Nguyen K.T., A.V. Nguyen, In situ investigation of halide co-ion effects on SDS adsorption at air-water interface, *Soft Matter* 10(34) (2014) 6558–6563.
137. Pan A., A.K. Rakshit, S.P. Moulik, Dwelling on the adsorption of surfactant at the air/water interface in relation to its states in the bulk: A comprehensive analysis, *Colloids Surfaces A* 464 (2014) 8–16.
138. Saïen J., S. Asadabadi, Salting out effects on adsorption and micellization of three imidazolium-base ionic liquids at liquid-liquid interface, *Colloid Surfaces A* 444 (2014) 138–143.
139. Sainanth K., P. Ghosh, Electrical properties of silicone oil-water interface in the presence of ionic surfactants and salt: Importance in the stability of oil-in-water emulsions, *Chemical Engineering Communications* 201(11) (2014) 1645–1663.
140. Schelero N., R. Miller, R. von Klitzing, Effects of oppositely charged hydrophobic additives (alkanoates) on the stability of C14TAB foam films, *Colloid Surfaces A* 460 (2014) 156–167.
141. Schelero N., R. von Klitzing, Polyelectrolytes, films – specific ion effects in thin films, in: *Encyclopedia in Applied Electrochemistry*, 2014, 1633–1639.
142. Stevenson P., X. Li, *Foam Fractionation: Principles and Process Design*, 2014.
143. Wang C., Different distributions of counterions in the surface layer of cationic surfactant solutions, *Journal of Dispersion Science and Technology* 35(4) (2014) 734–738.
144. Wojciechowski K., Hofmeister effect in ion-selective electrodes from the fluid-fluid interface perspective, in: *Colloid and Interface Chemistry for Nanotechnology*, 2014, Ch. 16.
145. Zhao J., C. Dai, J. Fang, X. Feng, L. Yan, M. Zhao, Surface properties and adsorption behavior of cocamidopropyl dimethyl amine oxide under high temperature and high salinity conditions, *Colloid Surfaces A* 450(1) (2014) 93–98.
146. Станимирова Р.Д., Състав и теология на адсорбционни слоеве от смеси на ПАВ и протеини на различни междупазови граници, Дисертация за доктор, ФХФ, СУ „Св. Кл. Охридски“, 2014.
147. Anachkov S.E., S. Tcholakova, D.T. Dimitrova, N.D. Denkov, N. Subrahmaniam, P. Bhunia, Adsorption of linear alkyl benzene sulfonates on oil-water interfaces: Effects of  $\text{Na}^+$ ,  $\text{Mg}^{2+}$ , and  $\text{Ca}^{2+}$  ions, *Colloids and Surfaces A* 466 (2015) 18–27.
148. Kirby S.M., S.L. Anna, L.M. Walker, Sequential adsorption of an irreversibly adsorbed non-ionic surfactant and an ionic surfactant at an oil/aqueous interface, *Langmuir* 31(14) (2015) 4063–4071.
149. Lunkerheimer K., D. Prescher, R. Hirte, K. Geggel, Adsorption properties of surface chemically pure sodium perfluoro-N-alkanoates at the air./water interface: Counterion effects within homologous series of 1:1 ionic surfactants, *Langmuir* 31(3) (2015) 970–981.
150. Pan A., A.K. Rakshit, S.P. Moulik, Dwelling on the adsorption of surfactant at the air/water interface in relation to its states in bulk: A comprehensive analysis, *Colloids and Surfaces A* 464 (2015) 8–16.
151. Saïen J., S. Asadabadi, Alkyl chain length, counter anion and temperature effects on the interfacial activity of imidazolium ionic liquids: Comparison with structurally related surfactants, *Fluid Phase Equilibria* 386 (2015) 134–139.
152. Sett S., S.I. Karakashev, S.K. Smoukov, A.I. Yarin, Ion-specific effects in foams, *Advances in Colloid and Interface Science* 225 (2015) 98–113.



153. Wang C., S. Bo, A. Kan, Z. Liu, J. Liu, Investigation of the surface structure of solution using neutral impact collision ion scattering spectroscopy, *Journal of Tianjin University Science and Technology* 48(11) (2015) 1030–1034.
154. Wang C., Y. Tan, Z. Jiang, X. Lin, S. Hu, Molecular structure of ionic surfactant solution surface and effects of counterion therein – a joint investigation by simulation and experiment, *Colloid and Polymer Science* 293(12) (2015) 3479–3486.
155. Allen D., Y. Saaka, L.C. Pardo, M.J. Lawrence, C.D. Lorenz, Specific effects of monovalent counterions on the structural and interfacial properties of dodecyl sulfate monolayers, *Physical Chemistry Chemical Physics* 18 (2016) 30394–30406.
156. Asadabadi S., J. Saien, Effects of pH and salinity on adsorption of different imidazolium ionic liquids at the interface of oil-water, *Colloids and Surfaces* 489 (2016) 36–45.
157. Lee C.H., Y.C. Bae, Effect of surfactants on the swelling behaviors of thermosensitive hydrogels: Applicability of the generalized Langmuir isotherm, *RSC Advances* 6(105) (2016) 103811–103821.
158. Manz K.E., G. Haerr, J. Lucchesi, K.E. Carter, Adsorption of hydraulic fracturing fluid components 2-butoxyethanol and furfural onto granular activated carbon and shale rock, *Chemosphere* 164 (2016) 585–592.
159. Shahir A.A., A.V. Nguyen, S.I. Karakashev, A quantification of immersion of the adsorbed ionic surfactants at liquid/liquid interfaces, *Colloid Surfaces A* 509 (2016) 279–292.
160. Wang C., Z. Jiang, L. Xu, A. Kan, H. Fu, X. Lin, Surface structure of aqueous surfactant solutions and effects of solvent therein – a computer simulation study, *Colloid and Polymer Science* 294(3) (2016) 575–581.
161. Wojciechowski K., Hofmeister effect in ion-selective electrodes from the fluid-fluid interface perspective, *Colloid and Interface Chemistry for Nanotechnology* 2016 369–401.
162. Kinoshita K., E. Parra, D. Needham, Adsorption of ionic surfactants at microscopic air-water interfaces using the micropipette interfacial area-expansion method: Measurement of the diffusion coefficient and renormalization of the mean ionic activity for SDS, *Journal of Colloid and Interface Science* 504 (2017) 765–779.
163. Nallet F., Surfactant films in lyotropic lamellar (and related) phases: Fluctuations and interactions, *Advances in Colloid and Interface Science* 247 (2017) 363–373.
164. Pesci C., H. Marschall, T. Kairaliyeva, V. Ulaganathan, R. Miller, D. Bothe, Experimental and computational analysis of fluid interfaces influenced by soluble surfactant, in: *Advances in Mathematical Fluid Mechanics*, Ga,di G.P., ed., Springer, 2017, 395–444.
165. Sultana N., Role of ammonium ion on the aggregation and adsorption properties of sodium dodecylsulfate, *Journal of Dispersion Science and Technology* 38 (2017) 1–8.
166. Varade S.R., P. Ghosh, Foaming in aqueous solutions of zwitterionic surfactants: Effects of oils and slats, *Journal of Dispersion Science and Technology* 38 (2017) 1170–1184.
167. Yarveicy H., A. Haghtalab, Effect of amphoteric surfactant on phase behavior of hydrocarbon-electrolyte-water system-an application in enhanced oil recovery, *Journal of Dispersion Science and Technology* 38 (2017) 1–9.
168. Zhang C., T. Geng, Y. Jiang, L. Zhao, H. Ju, Y. Wang, Impact of NaCl concentration on equilibrium and dynamic surface adsorption of cationic surfactants in aqueous solution, *Journal of Molecular Liquids* 238 (2017) 423–429.
169. Zhang C., Y. Jiang, H. Ju, Y. Wang, T. Geng, Lipophilic counterion effect on aggregation and adsorption behavior of quaternary ammonium surfactants, *Journal of Dispersion Science and Technology* 38 (2017) 1817–1823.
170. Allen D.T., N. Domestani, Y. Saaka, M.J. Lawrence, C.D. Lorenz, Interactions of testosterone-based compounds with dodecylsulfate monolayers at the air-water interface, *Physical Chemistry Chemical Physics* 20(13) (2018) 8790–8801.
171. Cho H.J., V. Sresht, E.N. Wang, Predicting surface tensions of surfactant solutions from statistical mechanics, *Langmuir* 34(6) (2018) 2386–2395.
172. Diugnan T.T., M. Peng, A.V. Nguyen, X.S. Zhao, M.D. Baer, C.J. Mundy, Detecting the undetectable: The role of trace surfactant in the Jones-Ray effect, *The Journal of Chemical Physics* 149 (2018) 194702.
173. Imai Y., Y. Tokigawa, S. Ueno, H. Tanida, I. Watanabe, H. Matsubara, T. Takiue, M. Aratono, Effect of the headgroup structure on counterion binding in adsorbed surfactant films investigated by total reflection x-ray adsorption fine structure spectroscopy, *Bulletin of the Chemical Society of Japan* 91 (2018) 1487–1494.
174. Manz K.E., The impact of chemical additives and chemical transformations on water quality and hydraulic fracturing, PhD Thesis, University of Tennessee, 2018.

175. Mchedlov-Petrosyan N.O., The Davies equation of state of ionic surfactant adsorbed monolayer and related problems, *Colloids Surfaces A* 537 (2018) 325–333.
176. Sultana N., Role of ammonium ion on the aggregation and adsorption properties of sodium dodecylsulfate, *Journal of Dispersion Science and Technology* 39(1) (2018) 92–99.
177. Uematsu Y., K. Chida, H. Matsubara, Intentionally added ionic surfactants induce Jones-ray effect at air-water interface *Colloids and Interface Science Communications* 27 (2018) 45–48.
178. Yazhgur P., S. Vierros, D. Hannoy, M. Sammalkorpi, A. Salonen, Surfactant integration and organization at the gas-water interface (CTAB with added salt), *Langmuir* 34(5) (2018) 1855–1864.
179. Alhaji M., An experimental study of bulk foam properties with commercial surfactants in saline environments, PhD Thesis, Department of Chemistry, University of Bergen, 2019.
180. Chang F., Z.B. He, Q. Zhou, Solid-phase preparation of Al-TiO<sub>2</sub> for efficient separation of vioderived product Danshensu, *Journal of Chemistry* (2019) 8579528.
181. Das S., J. Adeoye, I. Dhiman, H.Z. Bilheux, B.R. Ellis, Ambibition of mixed-charge surfactant fluids in shale fractures, *Energy and Fuels* 33(4) (2019) 2839–2847.
182. Li Y., H. Wang, W. Li, S. Song, A fundamental study of monovalent and divalent ions on froth properties in the presence of terpenic oil, *Physicochemical Problems of Mineral Processing* 55(3) (2019) 643–654.
183. Wang C., F. Liu, H. Yang, H. Morgner, L. Zhang, X. Lin, Z. Liu, H. Fu, Dependence of surface tension on surface concentration in ionic surfactant solutions and influences of supporting electrolyte therein, *Tenside* 56(6) (2019) 484–489.
184. Hill R.J., Electrokinetic spectra of dilute surfactant-stabilized nano-emulsions, *Journal of Fluid Mechanics* 920 (2020) A15.
185. Hill R.J., G. Afuwape, Dynamic mobility of surfactant-stabilized nano-drops: unifying equilibrium thermodynamics, electrokinetics and Marangoni effects, *Journal of Fluid Mechanics* 895 (2020) A14.
186. Keshavarzi B., M. Mahmoudvand, A. Javadi, A. Bahramian, R. Miller, K. Eckert, Salt effect on formation and stability of colloidal gas aphrons produced by anionic and zwitterionic surfactants in xanthan gum solution, *Colloids and Interfaces* 4 (2020) 9.
187. Peng M., A.V. Nguyen, Adsorption of ionic surfactants at the air/water interface: The gap between theory and experiment, *Advances in Colloid and Interface Science* 275 (2020) 102052.
188. Peng M., T.T. Duignan, A.V. Nguyen, Significant effect of surfactant adsorption layer thickness in equilibrium foam films, *Journal of Physical Chemistry B* 124 (2020) 5301–5310.
189. Wang X., K.P. Santo, A.V. Neimark, Modeling gas-liquid interfaces by dissipative particle dynamics: Adsorption and surface tension of cetyl trimethyl ammonium bromide at the air-water interface, *Langmuir* 36 (2020) 14686–14698.
190. Amani P., S.I. Karakashev, N.A. Grozev, S.S. Simeonova, R. Miller, V. Rudolph, M. Firouzi, Effect of selected monovalent salts on surfactant stabilized foams, *Advances in Colloid and Interface Science* 295 (2021) 102490.
191. Calderon S.M., N.L. Prisle, Composition dependent density of ternary aqueous solutions of ionic surfactants and salts: Capturing the effect of surfactant micellization in atmospheric droplet model solutions, *Journal of Atmospheric Chemistry* 78 (2021) 99–123.
192. Dietz A.A., Study of aqueous surfactant systems with focus on interfacial adsorption layers, PhD Thesis, Faculty of Chemistry and Pharmacy, Regensburg University, Germany, 2021.
193. Ebrahimi S., A. Haghtalab, Phase behavior and volume changes of oil/water/surfactant system. 17<sup>th</sup> National chemical Engineering Congress (IChEC 2021), 2021.
194. Frackowiak R., G. Para, L. Lamch, L. Szyk-Warszynska, A. Wilk Kazimiera, P. Warszynski, Adsorpcja dwufunkcyjnych labilnych surfaktantów kationowych na granicy faz ciecz/gaz : opis za pomocą modelu kwazi-dwuwymiarowego elektrolitu, *Waldomosci Chemiczne* 75 (2021) 1119–1155.
195. Geppert J., F. Kubannek, P. Rose, U. Krewer, Identifying the oxygen evolution mechanism by microkinetic modelling of cyclic voltammograms, *Electrochimica Acta* 380 (2021) 137902.
196. Le S.-T., Y. Gao, T.C.G. Kibbey, W.C. Glamore, D.M. O'Carroll, A new framework for modeling the effect of salt on interfacial adsorption of PFAS in environmental systems, *Science of the Total Environment* 796 (2021) 148893.
197. Obisesan O., R. Ahmed, M. Amani, The effect of salt on stability of aqueous foam, *Energies* 14 (2021) 279.
198. Obisesan O., Stability of aqueous foams at high pressure and impact of contaminants, PhD Thesis, Oklahoma University, 2021.
199. Peng M., T.T. Duignan, C.V. Nguyen, A.V. Nguyen, From surface tension to molecular distribution: Modeling surfactant adsorption at the air-water interface, *Langmuir* 37 (2021) 2237–2255.
200. Correia E.L., N. Brown, A. Ervin, D.V. Papavassiliou, S. Razavi, Contamination in sodium dodecyl sulfate solutions: Insights from the measurements of surface tension and surface rheology, *Langmuir* 38 (2022) 7179–7189.

201. Le S.-T., Y. Gao, T.C.G. Kibbey, W.C. Glamore, D.M. O'Carroll, Predicting the impact of salt mixtures on the air-water interfacial behavior of PFAS, *Science of the Total Environment* 819 (2022) 151987.
202. Nanikashvili P.M., A.V. Butenko, M. Deutsch, D. Lee, E. Sloutskin, Salt-induced stability and modified interfacial energetics in self-faceting emulsion droplets, *Journal of Colloid and Interface Science* 621 (2022) 131–138.
203. Sloutskin E., L. Tamam, Z. Sapir, B.M. Ocko, C.D. Bain, I. Kuzmenko, T. Gog, M. Deutsch, Counterions under surface-adsorbed cationic surfactant monolayer: Structure and thermodynamics, *Langmuir* 38 (2022) 12356–12366.
204. Warszynski P., L. Szyk-Warszynska, K.A. Wilk, Lamch, Adsorption of cationic multicharged surfactants at liquid-gas interface, *Current Opinion in Colloid and Interface Science* 59 (2022) 101577.
205. Zueva O.S., V.S. Ruchlov, Y.F. Zuev, Morphology of ionic micelles as studied by numerical solution of the Poisson equation, *ACS Omega* 7 (2022) 6174–6183.
206. Yoon R.-H., L. Wang, Hydrophobic forces in foam films, *Colloids and Interface Science Series* 6 (2014) 161–186.
207. Dekker R.I., S.F. Velandia, H.V.M. Kiberlaar, A. Morcy, V. Sadtler, T. Roques-Carnes, J. Groenewold, W.K. Kegel, K.P. Velikov, D. Bonn, Is there a difference between surfactant-stabilised and Pickering emulsions? *Soft Matter* 19 (2023) 1941–1951.
208. Taherkhani F., D. Brogioli, F. La Mantia, Numerical Simulation of Electrochemical Systems by Coupling Analytical Calculation of the Diffuse Double Layer and Finite Element Description of Solution Bulk, *Electroanalysis* 35 (2023) e202200257.
209. Vepsäläinen S., S.M. Calderon, N.L. Prisle, Comparison of six approaches to predicting droplet activation of surface active aerosol-Part 2: Strong surfactants, *Atmospheric Chemistry and Physics* 23 (2023) 15149–15164.
210. Zhang W., G. Bo, Anomalous adsorption of PFAS at the thin-water-film air-water interface in water-unsaturated porous media, *Water Resources Research* 60 (2024) e2023WR035775.
211. Majhi S., S. Bhattacharyya, Finite ion size effects on electrophoresis of a dielectric surfactant-laden droplet in a non-dilute electrolyte, *Applied Mathematical Modelling* 132 (2024) 384–401.

**68 K.D. Danov, P.A. Kralchevsky, I.B. Ivanov, Equilibrium and dynamics of surfactant adsorption monolayers and thin liquid films, in: G. Broze (Ed.), Handbook of Detergents. Part. A: Properties, Marcel Dekker, 1999, pp. 303–418. (брой: 29)**

1. Arnaudov L., N.D. Denkov, I. Surcheva, P. Durbin, G. Broze, A. Mehreteab, Effect of oily additives on foamability and foam stability. 1. Role of interfacial properties, *Langmuir* 17(22) (2001) 6999–7010.
2. Salager S.E., E.C. Tyrode, M.T. Celis, J.-L. Salager, Influence of the stirrer initial position on emulsion morphology. Making use of the local water-to-oil ratio concept for formulation engineering purpose, *Ind. Eng. Chem. Res.* 40(22) (2001) 4808–4814.
3. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
4. Gurkov T.D., E.S. Basheva, Hydrodynamic behavior and stability of approaching deformable drops, in: T. Hubbard (Ed.), *Encyclopedia of Surface and Colloid Science*, Marcel Dekker, New York, 2002.
5. Perez M., N. Zambrano, M. Ramirez, E. Tirode, J.L. Salager, Surfactant-oil-water systems near the affinity inversion. XII. Emulsion drop size versus formulation and composition, *J. Dispersion Science and Technology* 23(1–3) (2002) 55–63.
6. Frese Ch., S. Ruppert, M. Sugár, H. Schmidt-Lewerkühne, K.P. Wittern, V.B. Fainerman, R. Eggers, R. Miller, Adsorption kinetics of surfactant mixtures from micellar solutions as studied by maximum bubble pressure technique, *J. Colloid Interface Sci.* 267(2) (2003) 475–482.
7. Tamura T., Y. Kaneko, Foam film stability in aqueous systems, in: S. Hartland (Ed.), *Surface and Interfacial Tension: Measurement, Theory, and Applications*, Marcel Dekker, New York, 2004, p. 143.
8. Lee J., S. Kentish, M. Ashokkumar, Effect of surfactants on the rate of growth of an air bubble by rectified diffusion, *J. Phys. Chem. B* 109(30) (2005) 14595–14598.
9. Angle C.W., T. Dabros, H.A. Hamza, Predicting sizes of toluene-diluted heavy oil emulsions in turbulent flow. Part 1 – Application of two adsorption kinetic models for  $\sigma(E)$  in two size predictive models, *Chemical Engineering Science* 61(22) (2006) 7309–7324.
10. Durand M., H. Stone, Relaxation time of the topological T1 process in a two-dimensional foam, *Phys. Rev. Lett.* 97 (2006) 226101.
11. Szekeres E., E. Acosta, D.A. Sabatini, J.H. Harwell, Modeling solubilization of oil mixtures in anionic microemulsions: II. Mixtures of polar and non-polar oils, *J. Colloid Interface Sci.* 294(1) (2006) 222–233.

12. Sosnowski T., Efekty dynamiczne w układach ciecz-gaz z aktywną powierzchnią międzyfazową, *Prace Widzialu Inzynierii Chemichnei* 30(2) (2006) 3–141.
13. Tolosa L.I., A. Forgiarini, P. Moreno, J.L. Salager, Combined effects of formulation and stirring on emulsion drop size in the vicinity of three-phase behavior of surfactant-oil water systems, *Industrial Engineering Chemistry Research* 45(11) (2006) 3810–3814.
14. Weiss M., R.C. Darton, T. Battal, C.D. Bain, Surfactant adsorption and Marangoni flow in liquid jets. 3. Modeling in the presence of micellar surfactant, *Ind. Eng. Chem. Res.* 45(7) (2006) 2235–2248.
15. Hannisdal A., R. Orr, J. Sjoblom, Viscoelastic properties of crude oil components at oil-water interfaces. 2: Comparison of 30 oils, *J. Dispersion Science and Technology* 28(3) (2007) 361–369.
16. Tamura T., Physical properties of foam film from surfactant aqueous solutions, *Oleosience* 9(5) (2009) 197–210.
17. Dixit S.S., A. Pincus, B. Guo, G.W. Faris, Droplet shape analysis and permeability studies in droplet liquid bilayers, *Langmuir* 28(19) (2012) 7442–7451.
18. Stewart P.S., S.H. Davis, S. Hilgenfeldt, Viscous Rayleigh-Taylor instability in aqueous foams, *Colloids and Surfaces A* 436 (2013) 898–905.
19. Suriyarak S., J. Weiss, Cutoff Ostwald ripening stability of alkane-in-water emulsion loaded with eugenol, *Colloid and Surfaces A* 446 (2014) 71–79.
20. Venkatesan G.A., J. Lee, A.B. Farimani, M. Heiranian, C.P. Collier, N.R. Aluru, S.A. Sarles, Adsorption kinetics dictate monolayer self-assembly for both lipid-in and lipid-out approaches to droplet interface bilayer formation, *Langmuir* 31(47) (2015) 12883–12893.
21. Javadian S., J. Kakemam, Intermicellar interactions in surfactant solutions: A review study, *Journal of Molecular Liquids* 242 (2017) 115–129.
22. Rofeh J., S. Schankweiler, D. Morton, S. Mortezaei, L. Qiang, J. Gundlach, J. Fisher, L. Theogarajan, Microfluidic block copolymer membrane arrays for nanopore DNA sequencing, *Applied Physics Letters* 114(21) (2019) 213701.
23. Xie L., Q. Lu, X. Tan, Q. Liu, T. Tang, H. Zeng, Interfacial behavior and interaction mechanism of pentol/water interface stabilized with asphaltenes, *Journal of Colloid and Interface Science* 553 (2019) 341–349.
24. Bois R., I. Pezron, A. Nesterenko, Dynamic interfacial properties of sugar-based surfactants: Experimental study and modeling, *Colloid and Interface Science Communications* 37 (2020) 100293.
25. Chatzigiannakis E., N. Jaensson, J. Vermant, Thin liquid films: Where hydrodynamics, capillarity, surface stresses and intermolecular forces meet, *Current Opinion in Colloid and Interface Science* 53 (2021) 101441.
26. Mizev A., A. Shmirov, A. Shmirova, On the shear-driven surfactant layer instability, *Journal of Fluid Mechanics* 939 (2022) A24.
27. Vakarelski I.U., F. Yang, S.T. Thoroddsen, Effects of interface mobility on the dynamics of colliding bubbles, *Current Opinion in Colloid and Interface Science* 57 (2022) 101540.
28. Yang F., The effect of interface mobility on bubble and drop dynamics, PhD Thesis, KAUST, Saudi Arabi, 2022.
29. Шмиров А.В., Динамика слоя поверхностно-активного вещества в жидких многофазных системах с конвективными течениями, Дисертация, Институт механики сплошных сред, Пермь, 2022.

**67 K.D. Danov, T.D. Gurkov, H. Raszillier, F. Durst, Stokes flow caused by the motion of a rigid sphere close to a viscous interface, *Chem. Eng. Sci.* 53(19) (1998) 3413–3434. (брой: 27)**

1. Veerapaneni S., J.M. Wan, T.K. Tokunaga, Motion of particles in film flow, *Environ. Sci. Technol.* 34(12) (2000) 2465–2471.
2. Bishop A.I., T.A. Nieminen, N.R. Heckenberg, H. Rubinsztein-Dunlop, Optical microrheology using rotating laser-trapped particles, *Phys. Rev. Lett.* 92(19) (2004) 198104.
3. Mirowski E., J. Moreland, A. Zhang, S.E. Russek, M.J. Donahue, Manipulation and sorting of magnetic particles by a magnetic force microscope on a microfluidic magnetic trap platform, *Appl. Phys. Lett.* 86(24) (2005) 243901.
4. Felderhof B.U., Effect of surface tension and surface elasticity of a fluid-fluid interface on the motion of a particle immersed near the interface, *J. Chem. Phys.* 125(14) (2006) 144718.
5. Lightfoot M.D.A., Fundamental classification of atomization processes, Air Force Research Laboratory, Edwards, CA, 2007, PA08246A.
6. Pozrikidis C., Particle motion near and inside an interface, *J. Fluid Mech.* 575 (2007) 333–357.
7. Dietrich N., ÉTUDE LOCALE ET EXPÉRIMENTALE DES PHÉNOMÈNES INTERFACIAUX, PhD Thesis, INSTITUT NATIONAL POLYTECHNIQUE DE LORRAINE, École Nationale Supérieure des Industries Chimiques, Laboratoire des Sciences du Génie Chimique, École Doctorale RP2E, France, 2008.



8. Lightfoot M.D.A., Fundamental classification of atomization processes, *Atomization and Sprays* 19(11) (2009) 1065–1104.
  9. Blawdziewicz J., M.L. Ekiel-Jeewska, E. Wajnryb, Hydrodynamic coupling of spherical particles to a planar fluid–fluid interface: Theoretical analysis, *J. Chemical Physics* 133(11) (2010) 114703.
  10. Blawdziewicz J., M.L. Ekiel-Jeewska, E. Wajnryb, Motion of a spherical particle near a planar fluid–fluid interface: The effect of surface incompressibility, *J. Chemical Physics* 133(11) (2010) 114702.
  11. Mashayek A., C. Pozrikidis, Motion of a spherical particle inside a liquid film, *Acta Mechanica* 210(1–2) (2010) 27–46.
  12. Rouyer F., C. Fritz, O. Pitois, The sedimentation of fine particles in liquid foams, *Soft Matter* 6(16) (2010) 3863–3869.
  13. Dietrich N., S. Poncin, H.Z. Li, Dynamical deformation of a flat liqui/liquid interface, *Experiments in Fluids* 50(5) (2011) 1293–1303.
  14. Rouyer F., Quelques études de la physique des écoulements d'une mousse et dans une mousse, PhD Thesis, Universitet Paris-Est, 2011.
  15. Wang W., P. Huang, Anisotropic mobility of particles near the interface of two immiscible liquids, *Physics of Fluids* 26(9) (2014) 092003.
  16. Dorr A., S. Hardt, Driven particles at fluid interfaces acting as capillary dipoles, *Journal of Fluid Mechanics* 770 (2015) 5–26.
  17. Dorr A., S. Hardt, H. Masoud, H.A. Stone, Drag and diffusion coefficients of a spherical particle attached to a fluid–fluid interface, *Journal of Fluid Mechanics* 790 (2016) 607–618.
  18. Daddi-Mousa-Ider A., S. Gekle, Brownian motion near an elastic cell membrane: A theoretical study, *European Physical Journal E* 41(2) (2018) 19.
  19. Daddi-Mousa-Ider A., M. Lisicki, S. Gekle, A.M. Menzel, H. Lowen, Hydrodynamic coupling and rotational mobilities near plannar elastic membranes, *Journal of Chemical Physics* 149(1) (2018) 014901.
  20. Moshai M.H., Adhesion of rolling cell to deformable substrates in shear flow, PhD Thesis, Russ College of Engineering, Ohio University, 2018.
  21. Vasudevan S.A., Dynamics and wetting of heterogeneous colloids at liquid interfaces, PhD Thesis, ETH Zurich, 2018.
  22. Moshai M.H., M. Tehrani, A. Sarvestani, On stability of specific adhesion of particles to membranes in simpler shear flow, *Journal of Biomechanical Engineering* 141(1) (2019) 0110051.
  23. Villa S., A. Stocco, C. Blanc, M. Nobili, Multistable interaction between a spherical Brownian particle and an air–water interface, *Soft Matter* 16 (2020) 960–969.
  24. Villa S., G. Boniello, A. Stocco, M. Nobili, Motion of micro- and nano-particles interacting with fluid interface, *Advances Colloid Interface Science* 248 (2020) 102262.
  25. Pan J., C. Tu, M. Kan, J. Shan, F. Bao, J. Lin, Setting velocity variation induced by a sphere moving across a two-layer stratified fluid with different rheological characteristics, *RSC Advances* 13 (2023) 9773–9780.
  26. Xiao M., F. Li, P. Yang, B. Li, J. Wei, Q. Yu, Influence of slurry characteristics on the bubble stability in foamed concrete, *Journal of Bilding Engineering* 71 (2023) 106500.
  27. Zhang X., Particle behavior at steel–slag interface: small-scale simulations and experimental observation, PhD Thesis, Johanes Kepler Univerity, Linz, 2024.
- 66 V.N. Paunov, K.D. Danov, N. Alleborn, H. Raszillier, F. Durst, Stability of evaporating two-layered liquid film in the presence of surfactant – III. Non-linear stability analysis, Chem. Eng. Sci. 53(15) (1998) 2839–2857. (брой: 46)**
1. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
  2. Самонов В.Е., Математическое моделирование движения тонкого слоя жидкости под действием поверхностных сил, Дисертация на соискания научной степени кандидата физико математических наук, Ставропольский Государственный Университет, 2003.
  3. Bandyopadhyay D., R. Gulabani, A. Sharma, Instability and dynamics of thin liquid bilayers, *Ind. Eng. Chem. Res.* 44(5) (2005) 1259–1272.
  4. Fisher L.S., A.A. Golovin, Nonlinear stability analysis of a two-layer thin liquid film: dewetting and autophobic behaviour, *J. Colloid Interface Sci.* 291(2) (2005) 515–528.
  5. Merkt D., A. Pototsky, M. Bestehorn, U. Thile, Long-wave theory of bounded two-layer films with a free liquid–liquid interface: short- and long-time evolution, *Phys. Fluids* 17(6) (2005) 064104.
  6. Pototsky A., M. Bestehorn, D. Merkt, U. Thile, Morphology changes in the evolution of liquid two-layer films, *J. Chem. Phys.* 122(22) (2005) 224711.

7. Pototsky A., Pattern formation in thin one- and two-layer liquid film, PhD Thesis, Cottbus Technical University, 2005.
8. Bandyopadhyay D., A. Sharma, Nonlinear instabilities and pathways of rupture in thin liquid bilayers, *J. Chem. Phys.* 125(5) (2006) 054711.
9. Nepomnyashchy A., I. Simanovskii, J.C. Legros, Interfacial convection in multilayer systems (2006) 1–314.
10. Nepomnyashchy A., A. Golovin, V. Volpert, A. Tikhomirova, Interfacial phenomena in evaporation of binary mixture, *MMT* 4 (2006) 47–56.
11. Bandyopadhyay D., A. Sharma, Electric field induced instabilities in thin confined bilayers, *J. Colloid Interface Sci.* 311(2) (2007) 595–608.
12. Fisher L.S., A.A. Golovin, Instability of a two-layer thin liquid film with surfactants: dewetting waves, *J. Colloid Interface Sci.* 307 (2007) 203–214.
13. Lenz R.D., S. Kumar, Competitive displacement of thin liquid films on chemically patterned substrates, *J. Fluid Mech.* 571 (2007) 33–57.
14. Thiele U., Structure formation in thin liquid films, In: *CISM Courses and Lectures* 490 (2007) 25–93.
15. Bandyopadhyay D., A. Sharma, C. Rastogi, Dewetting of the thin liquid bilayers on topographically patterned substrates: Formation of microchannel and microdot arrays, *Langmuir* 24(24) (2008) 14048–14048.
16. Bandyopadhyay D., A. Sharma, Dewetting pathways and morphology of unstable thin liquid bilayers, *Journal of Physical Chemistry B* 112(37) (2008) 11564–11572.
17. Bandyopadhyay D., A. Sharma, V. Shankar, Instabilities and pattern miniaturization in confined and free elastic-viscous bilayers, *Journal of Chemical Physics* 128(15) (2008) 154909.
18. Heier J., J. Groenewold, S. Huber, F. Nuesch, R. Hany, Nanoscale structuring of semiconducting molecular blend films in the presence of mobile counterions, *Langmuir* 24(13) (2008) 7316–7322.
19. Bandyopadhyay D., A. Sharma, U. Thiele, D.S. Reddy, Electric-field-induced interfacial instabilities and morphologies of thin viscous and elastic bilayers, *Langmuir* 25(16) (2009) 9108–9118.
20. Craster R.V., O.K. Matar, Dynamics and stability of thin liquid films, *Reviews of Modern Physics* 81(3) (2009) 1131–1198.
21. Nepomnyashchy A., I. Simanovskii, Instabilities and Ordered Patterns in Nonisothermal Ultrathin Bilayer Fluid Films, *Phys. Review Letters* 102(16) (2009) Pap. No. 164501.
22. Bandyopadhyay D., A. Sharma, S.W. Joo, S.Z. Qian, Self-Organized Micropatterning of Thin Viscous Bilayers Under Microgravity, *Microgravity Science and Technology* 22(3) (2010) 273–282.
23. Bandyopadhyay D., A. Sharma, Self-organized microstructures in thin bilayers on chemically patterned substrates, *J. of Physical Chemistry C* 114(5) (2010) 2237–2247.
24. Nepomnyashchy A., I. Simanovskii, Instabilities of non-isothermic ultra-thin two-layer films, *Journal of Physics: Conference Series* 26 (2010) Pap. No. 012015.
25. Reddy P.D.S., D. Pandeyopadhyay, A. Sharma, Self-organized ordered arrays of core-shell columns in viscous bilayers formed by spatially varying electric fields, *Journal of Physical Chemistry C* 114(49) (2010) 21020–21028.
26. Srivastava S., P.D.S. Reddy, C. Wang, D. Pandeyopadhyay, A. Sharma, Electric field induced microstructures in thin films on physicochemically heterogeneous and patterned substrates, *Journal of Chemical Physics* 132(17) (2010) 174703.
27. Ward M.H., Interfacial thin films rupture and self-similarity, *Physics of Fluids* 23(6) (2011) Pap. No. 062105.
28. Xu L., D. Bandyopadhyay, A. Sharma, S.W. Joo, Switching of interfacial instabilities from the liquid/air interface to the liquid/liquid interface in a polymer bilayer, *Soft Matter* 7(18) (2011) 8056–8066.
29. Xu L., D. Bandyopadhyay, T.F. Shi, L.J. An, A. Sharma, S.W. Joo, Dewetting kinetics of thin polymer bilayers: role of under layer, *Polymer* 52(19) (2011) 4345–4354.
30. Bandyopadhyay D., P. Dinesh Sankar Reddy, A. Sharma, Electric field and van der Waals force induced instabilities in thin viscoelastic bilayers, *Physics of Fluids* 24(7) (2012) Art. 074106.
31. Dey M., D. Bandyopadhyay, A. Sharma, S. Qian, S.W. Joo, Electric-field-induced interfacial instabilities of a soft elastic membrane confined between viscous layers, *Physical Review E* 86(4) (2012) Art. 041602.
32. Kaliadasis S., C. Ruyer-Quil, B. Sheid, M. Velarde, Falling liquid films, *Applied Mathematics Series*, 176, 2012.
33. Nepomnyashchy A., I. Simanovskii, Nonlinear Marangoni waves in a two-layer film in the presence of gravity, *Physics of Fluids* 24(3) (2012) Art. 032101.
34. Nepomnyashchy A., I. Simanovskii, J.C. Legros, Interfacial convection in multilayer systems, *Applied Mathematical Science* 179 (2012) 1–498.

35. Reddy P.D.S., D. Bandyopadhyay, A. Sharma, Electric-field-induced instabilities in thin liquid trilayers confined between patterned electrodes, *Journal of Physical Chemistry C* 116(43) (2012) 22847–22858.
  36. Hens A., K. Mondal, D. Bandyopadhyay, Self-organized pathways to nanopatterns exploiting the instabilities of ultrathin confined bilayers, *Physical Review E* 87(2) (2013) 022405.
  37. Mikishev A.B., A.A. Nepomnyashchy, Instabilities in evaporating liquid layer with insoluble surfactant, *Physics Fluids* 25 (2013) 054109.
  38. Mondal K., P. Kumar, D. Bandyopadhyay, Electric field induced instabilities of thin leaky bilayers; pathways to unique morphologies and miniaturization, *Journal of Chemical Physics* 138(2) (2013) 024705.
  39. Abdalla A.A., Bilayer channel and free-surface thin film flow over topography, PhD Thesis, University of Leeds, 2014.
  40. Dey M., D. Bandyopadhyay, A. Sharma, S. Qian, S.W. Joo, Charge leakage mediated pattern miniaturization in the electric field induced instabilities of an elastic membrane, *Industrial and Engineering Chemistry Research* 53(49) (2014) 18840–18851.
  41. Hens A., K. Mondal, G. Biswas, D. Bandyopadhyay, Pathways from disordered to ordered nanostructures from defect guided dewetting of ultrathin bilayers, *Journal of Colloid and Interface Science* 465 (2016) 128–139.
  42. Srivastava A., N. Tiwari, Effect of an insoluble surfactants on the dynamics of a thin liquid film flowing over a non-uniformly heated substrate, *European Physical Journal E* 41(5) (2018) 56.
  43. Larsson C., S. Kumar, Nonuniformities in miscible two-layer two-component thin liquid films, *Physical Review Fluids* 6 (2021) 034004.
  44. Kishval D., R. Nandini, N. Tiwari, Spatiotermal stability of a thin film in the presence of thermal and solutal Marangoni stresses, *European Journal of Mechanics B: Fluids* 98 (2023) 64–79.
  45. Shenvi Usgaonkar S., C.J. Ellison, S. Kumar, Photochemically Induced Marangoni Patterning of Polymer Bilayers, *Langmuir* 39 (2023) 5970–5978.
  46. Yang S., S. Kumar, C.S. Dutcher, Instability and rupture of surfactant-laden bilayer thin liquid films, *Soft Matter* 19 (2023) 5737–5748.
- 65 K.D. Danov, V.N. Paunov, S.D. Stoyanov, N. Alleborn, H. Raschler, F. Durst, Stability of evaporating two-layered liquid film in the presence of surfactant – II. Linear analysis, Chem. Eng. Sci. 53(15) (1998) 2823–2837. (брой: 50)**
1. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
  2. Самонов В.Е., Математическое моделирование движения тонкого слоя жидкости под действием поверхностных сил, Дисертация на соискания научной степени кандидата физико математических наук, Ставропольский Государственный Университет, 2003.
  3. Bandyopadhyay D., R. Gulabani, A. Sharma, Instability and dynamics of thin liquid bilayers, *Ind. Eng. Chem. Res.* 44(5) (2005) 1259–1272.
  4. Fisher L.S., A.A. Golovin, Nonlinear stability analysis of a two-layer thin liquid film: dewetting and autophobic behaviour, *J. Colloid Interface Sci.* 291(2) (2005) 515–528.
  5. Merkt D., A. Pototsky, M. Bestehorn, U. Thiele, Long-wave theory of bounded two-layer films with a free liquid-liquid interface: short- and long-time evolution, *Phys. Fluids* 17(6) (2005) 064104.
  6. Pototsky A., M. Bestehorn, D. Merkt, U. Thiele, Morphology changes in the evolution of liquid two-layer films, *J. Chem. Phys.* 122(22) (2005) 224711.
  7. Pototsky A., Pattern formation in thin one- and two-layer liquid film, PhD Thesis, Cottbus Technical University, 2005.
  8. Bandyopadhyay D., A. Sharma, Nonlinear instabilities and pathways of rupture in thin liquid bilayers, *J. Chem. Phys.* 125(5) (2006) 054711.
  9. Nepomnyashchy A., I. Simanovskii, J.C. Legros, Interfacial convection in multilayer systems (2006) 1–314.
  10. Nepomnyashchy A., A. Golovin, V. Volpert, A. Tikhomirova, Interfacial phenomena in evaporation of binary mixture, *MMT* 4 (2006) 47–56.
  11. Bandyopadhyay D., A. Sharma, Electric field induced instabilities in thin confined bilayers, *J. Colloid Interface Sci.* 311(2) (2007) 595–608.
  12. Fisher L.S., A.A. Golovin, Instability of a two-layer thin liquid film with surfactants: dewetting waves, *J. Colloid Interface Sci.* 307 (2007) 203–214.
  13. Lenz R.D., S. Kumar, Competitive displacement of thin liquid films on chemically patterned substrates, *J. Fluid Mech.* 571 (2007) 33–57.
  14. Thiele U., Structure formation in thin liquid films, In: *CISM Courses and Lectures* 490 (2007) 25–93.

15. Bandyopadhyay D., A. Sharma, C. Rastogi, Dewetting of the thin liquid bilayers on topographically patterned substrates: Formation of microchannel and microdot arrays, *Langmuir* 24(24) (2008) 14048–14048.
16. Bandyopadhyay D., A. Sharma, Dewetting pathways and morphology of unstable thin liquid bilayers, *Journal of Physical Chemistry B* 112(37) (2008) 11564–11572.
17. Bandyopadhyay D., A. Sharma, V. Shankar, Instabilities and pattern miniaturization in confined and free elastic–viscous bilayers, *Journal of Chemical Physics* 128(15) (2008) 154909.
18. Barrett J.W., L. El Alaoui, Finite element approximation of a two-layered liquid film in the presence of insoluble surfactants, *Mathematical Modelling and Numerical Analysis* 42(5) (2008) 749–775.
19. Gundabala V.R., C.–H. Lei, K. Ouzineb, O. Dupont, J.L. Kedie, A.F. Routh, Lateral surface nonuniformities in drying latex films, *AIChE Journal* 54(12) (2008) 3092–3105.
20. Heier J., J. Groenewold, S. Huber, F. Nuesch, R. Hany, Nanoscale structuring of semiconducting molecular blend films in the presence of mobile counterions, *Langmuir* 24(13) (2008) 7316–7322.
21. Bandyopadhyay D., A. Sharma, U. Thiele, D.S. Reddy, Electric-field-induced interfacial instabilities and morphologies of thin viscous and elastic bilayers, *Langmuir* 25(16) (2009) 9108–9118.
22. Craster R.V., O.K. Matar, Dynamics and stability of thin liquid films, *Reviews of Modern Physics* 81(3) (2009) 1131–1198.
23. Nepomnyashchy A., I. Simanovskii, Instabilities and Ordered Patterns in Nonisothermal Ultrathin Bilayer Fluid Films, *Phys. Review Letters* 102(16) (2009) Pap. No. 164501.
24. Bandyopadhyay D., A. Sharma, S.W. Joo, S.Z. Qian, Self-Organized Micropatterning of Thin Viscous Bilayers Under Microgravity, *Microgravity Science and Technology* 22(3) (2010) 273–282.
25. Bandyopadhyay D., A. Sharma, Self-organized microstructures in thin bilayers on chemically patterned substrates, *J. of Physical Chemistry C* 114(5) (2010) 2237–2247.
26. Nepomnyashchy A., I. Simanovskii, Instabilities of non-isothermic ultra-thin two-layer films, *Journal of Physics: Conference Series* 26 (2010) Pap. No. 012015.
27. Reddy P.D.S., D. Bandyopadhyay, A. Sharma, Self-organized ordered arrays of core-shell columns in viscous bilayers formed by spatially varying electric fields, *Journal of Physical Chemistry C* 114(49) (2010) 21020–21028.
28. Yiantsios S.G., B.G. Higgins, A mechanism of Marangoni instability in evaporating thin liquid films due to soluble surfactant, *Physics Fluids* 22(2) (2010) 1–12.
29. Ward M.H., Interfacial thin films rupture and self-similarity, *Physics of Fluids* 23(6) (2011) Pap. No. 062105.
30. Xu L., D. Bandyopadhyay, A. Sharma, S.W. Joo, Switching of interfacial instabilities from the liquid/air interface to the liquid/liquid interface in a polymer bilayer, *Soft Matter* 7(18) (2011) 8056–8066.
31. Xu L., D. Bandyopadhyay, T.F. Shi, L.J. An, A. Sharma, S.W. Joo, Dewetting kinetics of thin polymer bilayers: role of under layer, *Polymer* 52(19) (2011) 4345–4354.
32. Bandyopadhyay D., P. Dinesh Sankar Reddy, A. Sharma, Electric field and van der Waals force induced instabilities in thin viscoelastic bilayers, *Physics of Fluids* 24(7) (2012) Art. 074106.
33. Dey M., D. Bandyopadhyay, A. Sharma, S. Qian, S.W. Joo, Electric-field-induced interfacial instabilities of a soft elastic membrane confined between viscous layers, *Physical Review E* 86(4) (2012) Art. 041602.
34. Nepomnyashchy A., I. Simanovskii, Nonlinear Marangoni waves in a two-layer film in the presence of gravity, *Physics of Fluids* 24(3) (2012) Art. 032101.
35. Nepomnyashchy A., I. Simanovskii, J.C. Legros, Interfacial convection in multilayer systems, *Applied Mathematical Science* 179 (2012) 1–498.
36. Reddy P.D.S., D. Bandyopadhyay, A. Sharma, Electric-field-induced instabilities in thin liquid trilayers confined between patterned electrodes, *Journal of Physical Chemistry C* 116(43) (2012) 22847–22858.
37. Hens A., K. Mondal, D. Bandyopadhyay, Self-organized pathways to nanopatterns exploiting the instabilities of ultrathin confined bilayers, *Physical Review E* 87(2) (2013) 022405.
38. Mikishev A.B., A.A. Nepomnyashchy, Instabilities in evaporating liquid layer with insoluble surfactant, *Physics Fluids* 25 (2013) 054109.
39. Mondal K., P. Kumar, D. Bandyopadhyay, Electric field induced instabilities of thin leaky bilayers; pathways to unique morphologies and miniaturization, *Journal of Chemical Physics* 138(2) (2013) 024705.
40. Simanovskii I.B., A. Viviani, F. Dubois, J.-C. Legros, Nonlinear convective oscillations in two-layer systems with an interfacial heat release, *Proceedings of the International Astronautical Congress, IAC*, Vol. 1, (2013) 577–586.
41. Abdalla A.A., Bilayer channel and free-surface thin film flow over topography, PhD Thesis, University of Leeds, 2014.



42. Dey M., D. Bandyopadhyay, A. Sharma, S. Qian, S.W. Joo, Charge leakage mediated pattern miniaturization in the electric field induced instabilities of an elastic membrane, *Industrial and Engineering Chemistry Research* 53(49) (2014) 18840–18851.
  43. Hens A., K. Mondal, G. Biswas, D. Bandyopadhyay, Pathways from disordered to ordered nanostructures from defect guided dewetting of ultrathin bilayers, *Journal of Colloid and Interface Science* 465 (2016) 128–139.
  44. Sutton K.B., Surface nonuniformities in waterborne coatings due to evaporative mechanisms, MSc Thesis, University of Akron, 2016.
  45. Nepomnyashchy A.A., I.B. Simanovskii, The influence of two-dimensional temperature modulation on nonlinear Marangoni waves in two-layer films, *Journal of Fluid Mechanics* 846 (2018) 944–965.
  46. Srivastava A., N. Tiwari, Effect of an insoluble surfactants on the dynamics of a thin liquid film flowing over a non-uniformly heated substrate, *European Physical Journal E* 41(5) (2018) 56.
  47. Larsson C., S. Kumar, Nonuniformities in miscible two-layer two-component thin liquid films, *Physical Review Fluids* 6 (2021) 034004.
  48. Kishval D., R. Nandini, N. Tiwari, Spatiotermal stability of a thin film in the presence of thermal and solutal Marangoni stresses, *European Journal of Mechanics B: Fluids* 98 (2023) 64–79.
  49. Shenvi Usgaonkar S., C.J. Ellison, S. Kumar, Photochemically Induced Marangoni Patterning of Polymer Bilayers, *Langmuir* 39 (2023) 5970–5978.
  50. Yang S., S. Kumar, C.S. Dutcher, Instability and rupture of surfactant-laden bilayer thin liquid films, *Soft Matter* 19 (2023) 5737–5748.
- 64 K.D. Danov, V.N. Paunov, N. Alleborn, H. Raszillier, F. Durst, Stability of evaporating two-layered liquid film in the presence of surfactant – I. The equations of lubrication approximation, Chem. Eng. Sci. 53(15) (1998) 2809–2822. (брой: 76)**
1. Ray M.S., Equilibrium-staged separation, *Separation Science and Technology* 34(16) (1999) 3305–3321.
  2. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
  3. Wang X., Finite element study of a heated thin fluid layer including surfactant effect, PhD Thesis, University of Texas at Austin, 2002.
  4. Самонов В.Е., Математическое моделирование движения тонкого слоя жидкости под действием поверхностных сил, Дисертация на соискания научной степени кандидата физико математических наук, Ставропольский Государственный Университет, 2003.
  5. Nepomnyashchy A.A., I.B. Simanovskii, Influence of thermocapillary effect and interfacial heat release on convective oscillations in a two-layer system, *Phys. Fluids* 16(4) (2004) 1127–1139.
  6. Pototsky A., M. Bestehorn, D. Merkt, U. Thiele, Alternative pathways of dewetting for a thin liquid two-layer film, *Phys. Rev. E* 70(2) (2004) 025201.
  7. Bandyopadhyay D., R. Gulabani, A. Sharma, Instability and dynamics of thin liquid bilayers, *Ind. Eng. Chem. Res.* 44(5) (2005) 1259–1272.
  8. Fisher L.S., A.A. Golovin, Nonlinear stability analysis of a two-layer thin liquid film: dewetting and autophobic behaviour, *J. Colloid Interface Sci.* 291(2) (2005) 515–528.
  9. Merkt D., A. Pototsky, M. Bestehorn, U. Thiele, Long-wave theory of bounded two-layer films with a free liquid-liquid interface: short- and long-time evolution, *Phys. Fluids* 17(6) (2005) 064104.
  10. Pototsky A., M. Bestehorn, D. Merkt, U. Thiele, Morphology changes in the evolution of liquid two-layer films, *J. Chem. Phys.* 122(22) (2005) 224711.
  11. Pototsky A., Pattern formation in thin one- and two-layer liquid film, PhD Thesis, Cottbus Technical University, 2005.
  12. Bandyopadhyay D., A. Sharma, Nonlinear instabilities and pathways of rupture in thin liquid bilayers, *J. Chem. Phys.* 125(5) (2006) 054711.
  13. Nepomnyashchy A., I. Simanovskii, J.C. Legros, Interfacial convection in multilayer systems (2006) 1–314.
  14. Nepomnyashchy A., A. Golovin, V. Volpert, A. Tikhomirova, Interfacial phenomena in evaporation of binary mixture, *MMT* 4 (2006) 47–56.
  15. Bandyopadhyay D., A. Sharma, Electric field induced instabilities in thin confined bilayers, *J. Colloid Interface Sci.* 311(2) (2007) 595–608.
  16. Fisher L.S., A.A. Golovin, Instability of a two-layer thin liquid film with surfactants: dewetting waves, *J. Colloid Interface Sci.* 307 (2007) 203–214.
  17. Lenz R.D., S. Kumar, Competitive displacement of thin liquid films on chemically patterned substrates, *J. Fluid Mech.* 571 (2007) 33–57.

18. Thiele U., S. Madruga, L. Frastia, Decomposition driven interface evolution for layers of binary mixtures. I. Model derivation and stratified base states, *Physics of Fluids* 19(12) (2007) 122106.
19. Thiele U., Structure formation in thin liquid films, In: *CISM Courses and Lectures* 490 (2007) 25–93.
20. Bandyopadhyay D., A. Sharma, C. Rastogi, Dewetting of the thin liquid bilayers on topographically patterned substrates: Formation of microchannel and microdot arrays, *Langmuir* 24(24) (2008) 14048–14048.
21. Bandyopadhyay D., A. Sharma, Dewetting pathways and morphology of unstable thin liquid bilayers, *Journal of Physical Chemistry B* 112(37) (2008) 11564–11572.
22. Bandyopadhyay D., A. Sharma, V. Shankar, Instabilities and pattern miniaturization in confined and free elastic–viscous bilayers, *Journal of Chemical Physics* 128(15) (2008) 154909.
23. Heier J., J. Groenewold, S. Huber, F. Nuesch, R. Hany, Nanoscale structuring of semiconducting molecular blend films in the presence of mobile counterions, *Langmuir* 24(13) (2008) 7316–7322.
24. Bandyopadhyay D., A. Sharma, U. Thiele, D.S. Reddy, Electric–field–induced interfacial instabilities and morphologies of thin viscous and elastic bilayers, *Langmuir* 25(16) (2009) 9108–9118.
25. Craster R.V., O.K. Matar, Dynamics and stability of thin liquid films, *Reviews of Modern Physics* 81(3) (2009) 1131–1198.
26. Nepomnyashchy A., I. Simanovskii, Instabilities and Ordered Patterns in Nonisothermal Ultrathin Bilayer Fluid Films, *Phys. Review Letters* 102(16) (2009) Pap. No. 164501.
27. Bandyopadhyay D., A. Sharma, S.W. Joo, S.Z. Qian, Self–Organized Micropatterning of Thin Viscous Bilayers Under Microgravity, *Microgravity Science and Technology* 22(3) (2010) 273–282.
28. Bandyopadhyay D., A. Sharma, Self–organized microstructures in thin bilayers on chemically patterned substrates, *J. of Physical Chemistry C* 114(5) (2010) 2237–2247.
29. McIntyre A., L.N. Brush, Spin–coating of vertically stratified thin liquid films, *J. Fluid Mechanics* 647 (2010) 265–285.
30. Nepomnyashchy A., I. Simanovskii, Instabilities of non–isothermic ultra–thin two–layer films, *Journal of Physics: Conference Series* 26 (2010) Pap. No. 012015.
31. Reddy P.D.S., D. Bandyopadhyay, A. Sharma, Self–organized ordered arrays of core–shell columns in viscous bilayers formed by spatially varying electric fields, *Journal of Physical Chemistry C* 114(49) (2010) 21020–21028.
32. Yiantsios S.G., B.G. Higgins, A mechanism of Marangoni instability in evaporating thin liquid films due to soluble surfactant, *Physics Fluids* 22(2) (2010) 1–12.
33. Jachalski S., R. Huth, G. Kitavtsev, D. Peschka, B. Wagner, Stationary solution for two-layer lubrication equations, *Weierstrass Institute fuer Angewandte Analysis und Stochastik*, Berlin, 2011.
34. Ward M.H., Interfacial thin films rupture and self-similarity, *Physics of Fluids* 23(6) (2011) Pap. No. 062105.
35. Xu L., D. Bandyopadhyay, A. Sharma, S.W. Joo, Switching of interfacial instabilities from the liquid/air interface to the liquid/liquid interface in a polymer bilayer, *Soft Matter* 7(18) (2011) 8056–8066.
36. Xu L., D. Bandyopadhyay, T.F. Shi, L.J. An, A. Sharma, S.W. Joo, Dewetting kinetics of thin polymer bilayers: role of under layer, *Polymer* 52(19) (2011) 4345–4354.
37. Bandyopadhyay D., P. Dinesh Sankar Reddy, A. Sharma, Electric field and van der Waals force induced instabilities in thin viscoelastic bilayers, *Physics of Fluids* 24(7) (2012) Art. 074106.
38. Dey M., D. Bandyopadhyay, A. Sharma, S. Qian, S.W. Joo, Electric-field-induced interfacial instabilities of a soft elastic membrane confined between viscous layers, *Physical Review E* 86(4) (2012) Art. 041602.
39. Kaliadasis S., C. Ruyer-Quil, B. Scheid, M.G. Velarde, *Falling Liquid Films*, *Applied Mathematical Sciences* Vol. 176, 2012.
40. Nepomnyashchy A., I. Simanovskii, Nonlinear Marangoni waves in a two-layer film in the presence of gravity, *Physics of Fluids* 24(3) (2012) Art. 032101.
41. Nepomnyashchy A., I. Simanovskii, J.C. Legros, Interfacial convection in multilayer systems, *Applied Mathematical Science* 179 (2012) 1–498.
42. Reddy P.D.S., D. Bandyopadhyay, A. Sharma, Electric-field-induced instabilities in thin liquid trilayers confined between patterned electrodes, *Journal of Physical Chemistry C* 116(43) (2012) 22847–22858.
43. Bommer S., Cartellier F., Jachalski S., D. Peschka, R. Seemann, B. Wagner, Droplets on liquids and their journey into equilibrium, *European Physical Journal E* 36(8) (2013) 87.
44. Hens A., K. Mondal, D. Bandyopadhyay, Self-organized pathways to nanopatterns exploiting the instabilities of ultrathin confined bilayers, *Physical Review E* 87(2) (2013) 022405.
45. Jachalski S., R. Huth, G. Kitavtsev, D. Peschka, B. Wagner, Stationary solutions of liquid two-layer thin-film model, *SIAM Journal of Applied Mathematics* 73 (2013) 1183–1202.
46. Mikishev A.B., A.A. Nepomnyashchy, Instabilities in evaporating liquid layer with insoluble surfactant, *Physics Fluids* 25 (2013) 054109.

47. Mondal K., P. Kumar, D. Bandyopadhyay, Electric field induced instabilities of thin leaky bilayers; pathways to unique morphologies and miniaturization, *Journal of Chemical Physics* 138(2) (2013) 024705.
48. Simanovskii I.B., The influence of the interfacial heat release on nonlinear convective oscillations in two-layer systems, *Physics of Fluids* 25 (2013) 072106.
49. Abdalla A.A., Bilayer channel and free-surface thin film flow over topography, PhD Thesis, University of Leeds, 2014.
50. Dey M., D. Bandyopadhyay, A. Sharma, S. Qian, S.W. Joo, Charge leakage mediated pattern miniaturization in the electric field induced instabilities of an elastic membrane, *Industrial and Engineering Chemistry Research* 53(49) (2014) 18840–18851.
51. Simanovskii I.B., A. Viviani, F. Dubois, J.-C. Legros, Influence of an interfacial heat release on nonlinear convective flows in a laterally heated two-layer system, *European Journal of Mechanics* 48 (2014) 49–58.
52. Simanovskii I.B., A. Viviani, F. Dubois, J.-C. Legros, Nonlinear buoyant-thermocapillary waves in two-layer systems with an interfacial heat, *Microgravity Science and Technology* 27 (2014) 11–26.
53. Simanovskii I.B., A. Viviani, F. Dubois, J.-C. Legros, The influence of an interfacial heat release on convective oscillations in two-layer systems with periodic boundary conditions, *Proceedings of the International Astronautical Congress, IAC*, 1 (2014) 523–531.
54. Huth R., S. Jachalski, G. Kitavtsev, D. Peschka, Gradient flow perspective on thin film bilayer flows, *Journal of Engineering Mathematics* 94(1) (2015) 43–61.
55. Srivastava A., N. Tiwari, Linear stability analysis of two-layered liquid film flowing over locally heated surface, *CHEMCON2015, Chemical Engineering*, 2015.
56. Xu X., U. Thiele, T. Qian, A variational approach to thin film hydrodynamics of binary mixtures, *Journal of Physics Condensed Matter* 27(8) (2015) 085005.
57. Hens A., K. Mondal, G. Biswas, D. Bandyopadhyay, Pathways from disordered to ordered nanostructures from defect guided dewetting of ultrathin bilayers, *Journal of Colloid and Interface Science* 465 (2016) 128–139.
58. Simanovskii I.B., A. Nepomnyashchy, A. Viviani, F. Dubois, Nonlinear waves in two-layer systems with a temperature-dependent interfacial heat release, *Microgravity Science and Technology* 28(4) (2016) 381–393.
59. Simanovskii I.B., A. Viviani, F. Dubois, J.-C. Legros, Nonlinear traveling waves in a two-layer systems with heat release/consumption at the interface, *Acta Astronautica* 123 (2016) 137–144.
60. Kay E.D., S. Hibberd, H. Power, A multi-layer integral model for locally-heated thin film flow, *Journal of Computational Physics* 336 (2017) 51–68.
61. Nepomnyashchy A.A., I.B. Simanovskii, Novel criteria for the development of monotonic and oscillatory instabilities in a two-layer film, *Physics of Fluids* 29 (2017) 092104.
62. Simanovskii I.B., A. Viviani, F. Dubois, Convective flow in a two-layer system with an interfacial heat release under the action of an imposed temperature gradient, *International Journal of Thermal Sciences* 113 (2017) 51–64.
63. Simanovskii I.B., A. Viviani, F. Dubois, Nonlinear dynamics of two-layer systems with a temperature-dependent heat release, *International Journal of Thermal Sciences* 119 (2017) 51–67.
64. Xu L., D. Bandyopadhyay, P.D.S. Reddy, A. Sharma, S.W. Joo, Giant slip induced anomalous dewetting of an ultrathin film on a viscous sublayer, *Scientific Reports* 7 (2017) 14776.
65. Nepomnyashchy A.A., I.B. Simanovskii, The influence of two-dimensional temperature modulation on nonlinear Marangoni waves in two-layer films, *Journal of Fluid Mechanics* 846 (2018) 944–965.
66. Srivastava A., N. Tiwari, Effect of an insoluble surfactants on the dynamics of a thin liquid film flowing over a non-uniformly heated substrate, *European Physical Journal E* 41(5) (2018) 56.
67. Simanovskii I.B., A.A. Nepomnyashchy, A. Viviani, F. Dubois, The influence of a temperature-dependent interfacial heat release on nonlinear convective oscillations in a two-layer system, *European Journal of Mechanics B* 68 (2018) 85–99.
68. Simanovskii I.B., A. Viviani, F. Dubois, Nonlinear oscillatory flow in a two-layer system with a temperature-dependent heat release, *Proceeding of the International Astronautical Congress October* (2018) 147415.
69. Nepomnyashchy A., I. Simanovski, A. Viviani, F. Dubois, Multistability in multilayer systems, *Microgravity Science and Technology* (2019) 1–12.
70. Simanovski I., Nepomnyashchy A., A. Viviani, F. Dubois, The action of temporal modulation of an interfacial heat consumption on nonlinear Marangoni waves in the presence of gravity, *European Journal of Mechanics* 84 (2020) 51–62.
71. Nepomnyashchy A., I. Simanovski, Synchronization of Marangoni waves by temporal modulation of interfacial heat consumption, *Physical Review Fluids* 5 (2020) 094007.
72. Larsson C., S. Kumar, Nonuniformities in miscible two-layer two-component thin liquid films, *Physical Review Fluids* 6 (2021) 034004.

73. Kishval D., R. Nandini, N. Tiwari, Spatiotermal stability of a thin film in the presence of thermal and solutal Marangoni stresses, *European Journal of Mechanics B: Fluids* 98 (2023) 64–79.
74. Shiri R., L. Schmeller, R. Seemann, B. Wagner, Impact of noise on spinodal dewetting of liquid-liquid films, *Communications Physics* 6 (2023) 109.
75. Shenvi Usgaonkar S., C.J. Ellison, S. Kumar, Photochemically Induced Marangoni Patterning of Polymer Bilayers, *Langmuir* 39 (2023) 5970–5978.
76. Yang S., S. Kumar, C.S. Dutcher, Instability and rupture of surfactant-laden bilayer thin liquid films, *Soft Matter* 19 (2023) 5737–5748.

**63 R.G. Alargova, K.D. Danov, P.A. Kralchevsky, G. Broze, A. Mehreteab, Growth of gain rodlike micelles of ionic surfactant in the presence of  $Al^{3+}$  counterions, *Langmuir* 14(15) (1998) 4036–4039. (брой: 54)**

1. Rodriguez-Navarro C., E. Doehne, E. Sebastian, Influencing crystallization damage in porous materials through the use of surfactants: experimental results using sodium dodecyl sulfate and cetyltrimethylbenzylammonium chloride, *Langmuir* 16 (2000) 947–954.
2. Bujan M., M. Sikiric, N. Filipovic-Vincekovic, N. Vdovic, N. Garti, H. Furedi-Milhofer, Effect of anionic surfactants on crystal growth of calcium hydrogen phosphate dihydrate, *Langmuir* 17(21) (2001) 6461–6470.
3. Huang Y.-X., R.-C. Tan, Y.-L. Li, Y.-Q. Yang, L. Yu, Q.-C. He, Effect of salts on the formation of C8-lecithin micelles in aqueous solution, *J. Colloid Interface Sci.* 236(1) (2001) 28–34.
4. Srinivasan V., D. Blankschtein, Effect of counterion binding on micellar solution behavior: 1. Molecular-thermodynamic theory of micellization of ionic surfactants, *Langmuir* 19(23) (2003) 9932–9945.
5. Srinivasan V., D. Blankschtein, Effect of counterion binding on micellar solution behavior: 2. Prediction of micellar solution properties of ionic surfactant-electrolyte systems, *Langmuir* 19(23) (2003) 9946–9961.
6. Angelescu D.B., H. Caldararu, A. Khan, Some observations on the effect of the trivalent counterion  $Al^{3+}$  to the self-assembly of sodium dodecyl sulphate in water, *Colloids Surfaces A* 245(1–3) (2004) 49–60.
7. Burger C., J. Hao, Q. Ying, H. Isobe, M. Sawamura, E. Nakamura, B. Chu, Multilayer vesicles and vesicle clusters formed by the fullerene-based surfactant C60(CH3)5K, *J. Colloid Interface Sci.* 275(2) (2004) 632–641.
8. Vasilescu M., D. Angelescu, H. Caldararu, M. Almgren, A. Khan, Fluorescence study on the size and shape of sodium dodecyl sulphate-aluminium salt micelles, *Colloids Surfaces A* 235(1–3) (2004) 57–64.
9. Goldsipe A., D. Blankschtein, Modelling counterion binding in ionic-nonionic and ionic-zwitterionic binary surfactant mixtures, *Langmuir* 21(22) (2005) 9850–9865.
10. Strnadova H., L. Kvitek, Micellar systems – factorst influencing the critical micelle concentration, *AUPO Chemica* 2005, 7–23.
11. Nan Y.Q., L.S. Hao, H.L. Liu, Y. Hu, The influence of sodium phosphate on extraction phenomena of aqueous two-phase cationic/anionic surfactant systems, *J. Dispersion Sci. Technology* 27(3) (2006) 419–425.
12. Borse M., V.K. Aswal, P.S. Goyal, S. Devi, Effect of bivalent malate on aggregation behaviour of butanediyl-1,4-bis(dodecyl hydroxyethyl methyl ammonium bromide) surfactant, *Colloids Surfaces A* 305(1–3) (2007) 10–16.
13. Denkova P.S., L.V. Lokeren, I. Verbruggen, R. Willem, Self-aggregation and supramolecular structure investigations of Triton X-100 and SDP2S by NOESY and diffusion ordered NMR spectroscopy, *J. Phys. Chem. B* 112 (2008) 10935–10941.
14. Denkova P.S., L. van Lokeren, R. Willem, Mixed micelles of Triton X-100, Sodium Dodecyl Dioxethylene Sulfate, and Synperonic L61 investigated by NOESY and diffusion ordered NMR spectroscopy, *J. Phys. Chem. B* 113(19) (2009) 6703–6709.
15. Talens-Alessen F., The role of ionic pair association on micellization and counterion binding in ionic micelles, *Journal of Physical Chemistry B* 113(29) (2009) 9779–9785.
16. Pereira R.F.P., A.J.M. Valente, H.D. Burrows, Thermodynamic analysis of the interaction between trivalent metal ions and sodium dodecyl sulfate: An electrical conductance study, *Journal of Molecular Liquids* 156 (2010) 109–114.
17. Petkov JT, IM Tucker, J. Penfold, RK Thomas, DN Petsev, CC Dong, S. Golding, I. Grilo, The impact of multivalent counterions,  $Al^{3+}$ , on the surface adsorption and self-assembly of the anionic surfactant alkyloxyethylene sulfate and anionic/nonionic surfactant mixtures, *Langmuir* 26(22) (2010) 16699–16709.
18. Sultan, Abdullah S. Molecular Simulation Study of Diverting Materials Used in Matrix Acidizing. Doctoral dissertation, Texas A&M University, 2010.



19. Nachbar L.S., Effects of formulation conditions on micellar interactions and solution rheology in multicomponent micellar systems, PhD Thesis, Department of Material Science and Engineering, MIT, 2011.
20. Zhou Y., X. Fan, Rheological properties of sodium dodecyl sulphate-based supramolecules hydrogel induced by aluminum ion, *Advanced Materials Research* 233–235 (2011) 1966–1971.
21. Dey J., Studies on the micellization behavior of surfactants in selected solvent media, PhD Thesis, North-Western Hill University, 2012.
22. Dey J., U. Thapa, K. Ismail, Aggregation and adsorption of sodium dioctylsulfosuccinate in aqueous ammonium chloride solution: Role of mixed counterions, *J. Colloid Interface Sci.* 367(1) (2012) 305–310.
23. Fathi H., J.P. Kelli, V.R. Vasquez, O.A. Graeve, Ionic concentration effects on reverse micelle size and stability: implications for the synthesis of nanoparticles, *Langmuir* 28(25) (2012) 9267–9274.
24. Pereira R.F.G., Interações entre íões metálicos e surfactantes aniônicos, PhD Thesis, Derapamento de Fisika, FTCUC, 2012.
25. Chen M., C. Dong, J. Penfold, R.K. Thomas, T.J.P. Smith, A. Perfumo, R. Marchant, I.M. Banat, P. Stevenson, A. Parry, I. Tucker, I. Grillo, Influence of calcium ions on rhamnolipid and rhamnolipid/anionic surfactant adsorption and self-assembly, *Langmuir* 29(12) (2013) 3912–3923.
26. Tian H., D. Wang, W. Xu, A. Song, J. Hao, Balance of coordination and hydrophobic interaction in the formation of bilayers in metal-coordinated surfactant mixtures, *Langmuir* 29(11) (2013) 3538–3545.
27. Xu H., J. Penfold, R.K. Thomas, J.T. Petkov, I. Tucker, I. Grillo, A. Terry, Impact of  $\text{AlCl}_3$  on the self-assembly of anionic surfactant sodium polyethylene glycol monoalkyl ether in aqueous solution, *Langmuir* 29(44) (2013) 13359–13366.
28. Xu H., J. Penfold, R.K. Thomas, J.T. Petkov, I. Tucker, Webster J.P.R., The formation of surface multilayers at the air-water interface from sodium polyethylene glycol monoalkyl ether sulfate/ $\text{AlCl}_3$  solutions: The role of the size of the polyethylene oxide group, *Langmuir* 29(37) (2013) 11656–11666.
29. Xu H., J. Penfold, R.K. Thomas, J.T. Petkov, I. Tucker, Webster J.P.R., The formation of surface multilayers at the air-water interface from sodium diethylene glycol monoalkyl ether sulfate/ $\text{AlCl}_3$  solutions: The role of the alkyl chain length, *Langmuir* 29(41) (2013) 12744–12753.
30. Kashyap S., M. Jayakannan, Thermo-responsive and shape transformable amphiphilic scaffolds for loading and delivering anticancer drugs, *Journal of Material Chemistry B* 2(26) (2014) 4142–4152.
31. Nguyen K.T., A.V. Nguyen, In situ investigation of halide co-ion effects on SDS adsorption at air-water interface, *Soft Matter* 10(34) (2014) 6558–6563.
32. Xu H., J. Penfold, R.K. Thomas, J.T. Petkov, I. Tucker, J.R.P. Webster, I. Grillo, A. Terry, Ion specific effects in trivalent counterion induced surface and solution self-assembly of the anionic surfactant sodium polyethylene glycol monododecyl ether sulfate, *Langmuir* 30(16) (2014) 4694–4702.
33. Bagchi S., Solvation and heterogeneous media, in *Handbook of Surface and Colloid Chemistry*, Fourth edition, 2015, 461–480.
34. Borse S., T. Patil, Effect of nature of counterion on physicochemical properties of cetyl dimethyl ethanol ammonium bromide surfactants, *Chemical Science Review and Letters* 4(13) (2015) CS16204603.
35. Thomas R., J. Penfold, Multilayering of surfactant systems at the air-dilute aqueous solution interface, *Langmuir* 31(27) (2015) 7440–7456.
36. Liu Z., M. Cao, Y. Chen, Y. Fan, D. Wang, H. Xu, Y. Wang, Interactions of divalent and trivalent metal counterions with anionic sulfonate gemini surfactant and induced aggregate transitions in aqueous solution, *Journal of Physical Chemistry B* 120(17) (2016) 4102–4113.
37. Chen Z., J. Penfold, P. Li, J. Douth, Y. Fan, Y. Wang, Effect of length and hydrophilicity/hydrophobicity of diamines on self-assembly of diamine/SDS gemini-like surfactants, *Soft Matter* 13(47) (2017) 8980–8989.
38. Santos M.S., E.C. Biscaia, F.W. Tavares, Effects of electrostatic correlation on micelle formation, *Colloids and Surfaces A* 533 (2017) 169–178.
39. Anderson R.L., D.J. Bray, A. Del Regno, M.A. Seaton, A.S. Ferrante, P.B. Warren, Micelle formation in alkyl sulfate surfactants using dissipative particle dynamics, *Journal of Chemical Theory and Computations* 14(5) (2018) 2633–2643.
40. Patra N., D. Ray, V.K. Aswal, S. Ghosh, Exploring physicochemical interactions of different salts with sodium n-dodecanoil sarcosinate in aqueous solutions, *ACS Omega* 3(8) (2018) 9256–9266.
41. Sultana N., Role of ammonium ion on the aggregation and adsorption properties of sodium dodecylsulfate, *Journal of Dispersion Science and Technology* 39(1) (2018) 92–99.
42. Xu H., R.K. Thomas, J. Penfold, P.X. Li, K. Ma, R.J.L. Welbourn, D.W. Roberts, J.T. Petkov, The impact of electrolyte on the adsorption of the anionic surfactant methyl ester sulfonate at the air-solution interface: surface multilayer formation, *Journal of Colloid and Interface Science* 512 (2018) 231–238.

43. Xu H., P.X. Li, K. Ma, R.J.L. Welbourn, J. Douth, J. Penfold, R.K. Thomas, D.W. Roberts, J.T. Petkov, K.L. Choo, S.Y. Khoo, Adsorption and self-assembly in methyl ester sulfonate surfactants, their eutectic mixtures and the role of electrolyte, *Journal of Colloid and Interface Science* 516 (2018) 456–465.
44. Li P., J. Penfold, R.K. Thomas, H. Xu, Multilayers formed by polyelectrolyte-surfactant and related mixtures at air/water interface, *Advances in Colloid and Interface Science* 269 (2019) 43–86.
45. Wang Z., P. Li, K. Ma, Y. Chen, J. Penfold, R.K. Thomas, D.W. Roberts, H. Xu, J.T. Petkov, Z. Yan, D.A. Venero, The structure of alkyl ester sulfonate surfactant micelles: The impact of different valence electrolytes and surfactant structure on micelle growth, *Journal of Colloid and Interface Science* 557 (2019) 125–134.
46. Wang Z., P. Li, K. Ma, Y. Chen, M. Campana, J. Penfold, R.K. Thomas, H. Xu, J.T. Petkov, Z. Yan, Impact of molecular structure, headgroup and alkyl chain geometry, on the adsorption of the anionic ester sulfonate surfactants at the air-solution interface, in the presence and absence of electrolyte, *Journal of Colloid and Interface Science* 544 (2019) 293–302.
47. Xu H., P.X. Li, K. Ma, R.J.L. Welbourn, J. Penfold, R.K. Thomas, D.W. Roberts, J.T. Petkov, The role of competitive counterion adsorption on the electrolyte induced surface ordering in methyl ester sulfonate surfactants at air-water interface, *Journal of Colloid and Interface Science* 533 (2019) 154–160.
48. Li P., Z. Wang, K. Ma, Y. Chen, Z. Yan, J. Panfold, R.K. Thomas, M. Campana, J.R.P. Webster, A. Washington, Multivalent electrolyte induced surface ordering and solution self-assembly in anionic surfactant mixtures: Sodium dodecyl sulfate and sodium diethylene glycol monododecyl sulfate, *Journal of Colloid and Interface Science* 565 (2020) 567–581.
49. Wang Z., P. Li, K. Ma, Y. Chen, Z. Yan, J. Panfold, R.K. Thomas, M. Campana, J.R.P. Webster, Z. Li, J.H. Neil, H. Xu, J.T. Petkov, D.W. Roberts,  $\alpha$ -Sulfo alkyl ester surfactants: Impact of changing the alkyl chain length on the adsorption, mixing properties and response to electrolytes of the tetradecanoate, *Journal of Colloid and Interface Science* 586 (2021) 876–890.
50. Ghasemi M., Modeling of phase behavior of coacervates, PhD Thesis, Michigan University, 2022.
51. Mitrinova Z., H. Alexandrov, N. Denkov, S. Tcholakova, Effect of counter-ion on rheological properties of mixed surfactant solutions, *Colloid Surfaces A* 643 (2022) 128746.
52. Poirier A., P. Le Griel, J. Perez, D. Hermida-Merino, P. Pernot, N. Baccile, Metallogels from a glycolipid biosurfactant, *ACS Sustainable Chemistry and Engineering* 10 (2022) 165013–16515.
53. Poirier A., P. Le Griel, J. Perez, N. Baccile, Cation-induced fibrillation of microbial glycolipid biosurfactant probed by ion-resolved in situ SAXS, *Journal of Physical Chemistry B* 126 (2022) 10528–10542.
54. Poirier A., K. Ozkaya, J. Gredziak, D. Talbot, N. Bacille, Heavy metal removal from water using the metallogelation properties of a new glycolipid biosurfactants, *Journal of Surfactants and Detergents* 26 (2023) 175–184.

**62 T.D. Gurkov, K.D. Danov, N. Alleborn, H. Raszillier, F. Durst, Role of surface forces in the stability of evaporating thin liquid films that contain surfactant micelles, *J. Colloid Interface Sci.* 198 (1998) 224–240. (брой: 11)**

1. Lin C.K., C.C. Hwang, G.J. Huang, W.Y. Uen, Nonlinear spreading dynamics of a localized soluble surfactant on a thin liquid film, *J. Phys. Soc. Jpn* 71(11) (2002) 2708–2714.
2. Fike G., S. Banerjee, Role of base surface on the development of adhesive films, *Research Forum on Recycling, Proceedings* (2004) pp. 27–33.
3. Melendez E., R. Reyes, Correlation of surface and interfacial energies on enhanced pool boiling heat transfer, *Proceedings of the ASME Heat Transfer/Fluids Engineering Summer Conference* 3 (2004) 703–709.
4. Melendez E., R. Reyes, Synergism of binary mixtures wettability and cover porosity on enhanced pool boiling heat transfer, *American Society of Mechanical Engineers, Heat Transfer Division*, 375(2) (2004) 577–582.
5. Reynoso G., P. Martinez, R. Reyes, Interfacial energy and micelle conditions of ternary mixtures for improved heat transfer, *Proceedings of the ASME Summer Heat Transfer Conference* 2 (2005) HT2005–72571, 189–194.
6. Fingas M., L. Ka'ahue, Oil spill dispersion stability and oil re-surfacing, *Environment Canada Arctic and Marine Oil Spill Program Technical Seminar (AMOP) Proceedings* 2 (2006) 729–819.
7. Melendez E., R. Reyes, Interfacial energies of aqueous mixtures and porous coverings for enhancing pool boiling heat transfer, *Int. J. Thermal Sci.* 45(8) (2006) 796–803.
8. Mazzoco R.R., Efficacy of microscopic interconnected channels and surfactants on enhancing pool boiling heat transfer, *Proceedings of the 5th International Conference on Nanochannels, Microchannels and Minichannels, ICNMM2007* (2007) 1123–1132.

9. Manjooran N.J., Van Der Waals Interactions Based Rheological Analysis for Electrosterically Stabilized Nano-Sized Alpha Silicon carbide-Lactobacillus Gg Dispersions, PhD Thesis, Material Science and Engineering, Virginia Polytechnic Institute, 2007.
  10. Hanamertani A.S., R.M. Pilus, N.A. Manan, M.I.A. Mutalib, The use of ionic liquids as additive to stabilize surfactant foam for mobility control application, *Journal of Petroleum Science and Engineering* 167 (2018) 192–201.
  11. Fingas M., Surface chemistry and oil-in-water emulsion stability, *Proceedings – 42 AMOP Technical Seminar on Environmental Contamination and Response*, 2019, 940–1023.
- 61 K.D. Danov, N. Alleborn, H. Raszillier, F. Durst, The stability of evaporating thin liquid films in the presence of surfactant. I. Lubrication approximation and linear analysis, *Phys. Fluids* 10(1) (1998) 131–143. (брой: 45)**
1. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
  2. Butt H.J., V. Franz, Rupture of molecular thin films observed in atomic force microscopy. I. Theory, *Phys. Rev. E* 66(3) (2002) 031601.
  3. Grigoriev R.O., Control of evaporatively driven instabilities of thin liquid films, *Phys. Fluids* 14(6) (2002) 1895–1909.
  4. Lin C.K., C.C. Hwang, G.J. Huang, W.Y. Uen, Nonlinear spreading dynamics of a localized soluble surfactant on a thin liquid film, *J. Phys. Soc. Jpn* 71(11) (2002) 2708–2714.
  5. Armendariz J., M. Matalon, Marangoni instability at a contaminated liquid–vapour interface of a burning thin film, *Phys. Fluids* 15(5) (2003) 1122–1130.
  6. Nonomura M., R. Kobayashi, Y. Nishiura, M. Shimomura, Periodic precipitation during droplet evaporation on a substrate, *J. Phys. Soc. Jpn* 72(10) (2003) 2468–2471.
  7. Cermelli P., E. Fried, M.E. Gurtin, Transport relations for surface integrals arising in the formulation of balance laws for evolving fluid interfaces, *J. Fluid Mech.* 544 (2005) 339–351.
  8. Fried E., A.Q. Shen, M.E. Gurtin, Theory for solvent, momentum, and energy transfer between a surfactant solution and a vapor atmosphere, *Phys. Review E* 73(6) (2006) 061601.
  9. Gundabala V.R., A.F. Routh, Thinning of drying latex films due to surfactant, *J. Colloid Interface Sci.* 303(1) (2006) 306–314.
  10. Haas D., Predicting the uniformity of two-component, spin deposited films, PhD Thesis, University of Arizona, 2006.
  11. Lee C.H., Y.F. Lu, A.Q. Shen, Evaporation induced self assembly and rheology change during sol–gel coating, *Phys. Fluids* 18(5) (2006) 052105.
  12. Lubarsky G.V., M.R. Davidson, R.H. Bradley, Particle–surface capillary forces with disjoining pressure, *Phys. Chem. Chem. Phys.* 8(21) (2006) 2525–2530.
  13. Nepomnyashchy A., A. Golovin, V. Volpert, A. Tikhomirova, Interfacial phenomena in evaporation of binary mixture, *MMT* 4 (2006) 47–56.
  14. Nepomnyashchy A., I. Simanovskii, J.C. Legros, Interfacial convection in multilayer systems (2006) 1–314.
  15. Anderson D.M., P. Cermelli, E. Fried, M.E. Gurtin, G.B. Mcfadden, General dynamical sharp–interface conditions for phase transformations in viscous heat–conducting fluids, *J. Fluid Mech.* 581 (2007) 323–370.
  16. Shklyaev O.E., E. Fried, Stability of an evaporating thin liquid film, *J. Fluid Mech.* 584 (2007) 157–183.
  17. Craster R.V., O.K. Matar, Dynamics and stability of thin liquid films, *Reviews of Modern Physics* 81(3) (2009) 1131–1198.
  18. Zheng R., Effect of disjoining pressure on the drainage and relaxation dynamics of liquid films with mobile interfaces, *Journal of Colloid and Interface Science* 336(1) (2009) 273–284.
  19. Yiantsios S.G., B.G. Higgins, A mechanism of Marangoni instability in evaporating thin liquid films due to soluble surfactant, *Physics Fluids* 22(2) (2010) 1–12.
  20. Kalliadasis S., C. Ruyer-Quil, B. Scheid, M.G. Velarde, *Falling Liquid Films*, Applied Mathematical Science, Vol. 172, 2012.
  21. Li X., S.I. Karakashev, G.M. Evans, P. Stevenson, Effect of environmental humidity on static foam stability, *Langmuir* 28(9) (2012) 4060–4068.
  22. Lu Y., *Evaporation in a Binary Liquid Faling Film*, Thesis, Worcester Polytechnic Institute, 2013.
  23. Mikishev A.B., A.A. Nepomnyashchy, Instabilities in evaporating liquid layer with insoluble surfactant, *Physics Fluids* 25 (2013) 054109.

24. Simanovskii I.B., The influence of the interfacial heat release on nonlinear convective oscillations in two-layer systems, *Physics of Fluids* 25(7) (2013) 072106.
  25. Akbarzadeh A.M., A. Moosavi, A. Moghimi Kheirabadi, Dewetting of evaporating thin films over nanometer-scale topographies, *Physical Review E* 90(1) (2014) 012409.
  26. Kabov O., D. Zaitsev, Y. Kabova, V. Cheverda, Evaporation, dynamics, and crisis phenomena in thin liquid films sheared by gas in a narrow channel, *IHTC 2014*, doi: 10.1615/IHTC15.flm.009537.
  27. Kabova Y., V.V. Kuznetsov, O. Kabov, T. Gambarian-Roisman, P. Stephan, Evaporation of a thin viscous liquid film sheared by gas in a microchannel, *International Journal of Heat and Mass Transfer* 68 (2014) 527–541.
  28. Mikishev A.B., A.A. Nepomnyashchy, The influence of evaporation on long-wavelength instabilities in liquid layer with insoluble surfactant, *Fluid Dynamics Research* 46(4) (2014) 041420.
  29. Gonzales J.C., Heat Transfer and Convective Structure of Evaporating Films under Pressure-Modulated Conditions, PhD Thesis, University of Washington, Aeronautics and Astronautics, 2015.
  30. Kabov O., V.V. Kuznetsov, Y.O. Kabova, Evaporation, Dynamics, and Interface Deformations in Thin Liquid Films Sheared by Gas in Microchannel, in: *Encyclopedia of Two-Phase Heat Transfer and Flow*, Vol. 1, 2015.
  31. Mikishev A.B., A.Y. Rednikov, P. Colinet, Impact of an insoluble surfactant on the thresholds of evaporative Bénard-Marangoni instability under air, *The European Physical Journal E* 40 (2017) Art. No, 90.
  32. Novev J.K., N. Panchev, R. Slavchov, Evaporating foam films of pure liquid stabilized via the thermal Marangoni effect, *Chemical Engineering Science* 171 (2017) 520–533.
  33. Hanamertani A.S., R.M. Pilus, N.A. Manan, M.I.A. Mutalib, The use of ionic liquids as additive to stabilize surfactant foam for mobility control application, *Journal of Petroleum Science and Engineering* 167 (2018) 192–201.
  34. Nepomnyashchy A.A., I.B. Simanovskii, The influence of two-dimensional temperature modulation on nonlinear Marangoni waves in two-layer films, *Journal of Fluid Mechanics* 846 (2018) 944–965.
  35. Srivastava A., N. Tiwari, Effect of an insoluble surfactants on the dynamics of a thin liquid film flowing over a non-uniformly heated substrate, *European Physical Journal E* 41(5) (2018) 56.
  36. Chatterjee S., K. Pal Singh, S. Bhattacharjee, Wetting hysteresis of atomically heterogeneous systems created by low energy inert gas ion irradiation on metal surfaces: Liquid thin film coverage in the receding mode and surface interaction energies, *Applied Surface Science* 470 (2019) 773–782.
  37. Shantharama, S.K. Kalpathy, Interplay of substrate wettability and surfactant distributions in controlling interfacial instabilities, *European Journal of Mechanics B* 78 (2019) 203–215.
  38. Mohamed H., L. Biancofiore, Linear stability analysis of evaporating falling liquid films, *International Journal of Multiphase Flow* 130 (2020) 103354.
  39. Nazareth R.K., G. Karapetsas, K. Safiane, O.K. Matar, P. Valluri, Stability of slowly evaporating thin liquid films of binary mixtures, *Physical Review Fluids* 5 (2020) 104007.
  40. Wang X., Y. Li, J.A. Malen, A.J.H. McGaughey, Assessing the impact of disjoining pressure on thin-film evaporation with atomistic simulation and kinetic theory, *Applied Physical Letters* 116 (2020) 213701.
  41. Yulianti K., A. Gunawan, E. Soewono, L. Mucharam, The effects of surfactant on the evolution of a thin film under a moving liquid drop, *Indonesian Journal of Science and Technology* 5 (2020) 75–85.
  42. Chatterjee S., J.S. Murallidharan, A. Agrawal, R. Bhardwaj, Designing antiviral surfaces to suppress the spread of COVID-19, *Physics of Fluids* 33 (2021) 052101.
  43. Bharadwaj A.S., J. Kuhnert, S.P.A. Bordas, P. Suchde, A discrete droplet method for modelling thin film flows, *Applied Mathematical Modeling* 112 (2022) 486–504.
  44. Gonzales-Pons J.C., J.C. Hermanson, J.S. Allen, Heat transfer and convective structure of evaporating films under pressure-modulated conditions, *International Journal of Thermofluids* 19 (2023) 100381.
  45. Kishval D., R. Nandini, N. Tiwari, Spatiotemporal stability of a thin film in the presence of thermal and solutal Marangoni stresses, *European Journal of Mechanics B: Fluids* 98 (2023) 64–79.
- 60 P.A. Kralchevsky, K.D. Danov, N.D. Denkov, Chemical physics of colloid systems and interfaces, in: K.S. Birdi (Ed.), Handbook of Surface and Colloid Chemistry, CRC Press, New York, 1997, pp. 333–494. (брой: 89)**
1. Cardoso A.H., C.A.P. Leite, M.E.D. Zaniquelli, F. Galembeck, Easy polymer latex self-assembly and colloidal crystal formation: the case of poly[styrene-co-(2-hydroxyethyl methacrylate)], *Colloids Surfaces A* 144(1–3) (1998) 207–217.
  2. Basheva E.S., T.D. Gurkov, I.B. Ivanov, G. Bantchev, B. Campbell, R. Borwankar, Size dependence of the stability of emulsion drops pressed against a large interface, *Langmuir* 15(20) (1999) 6764–6769.



3. Dimitrova T., F.-L. Calderon, Forces between emulsion droplets stabilized with Tween 20 and proteins, *Langmuir* 15(26) (1999) 8813–8821.
4. Zapryanov Z., S., Tabakova, Dynamics of Bubbles, Drops and Rigid Particles, Kluwer Academic Publishers, Dordrecht, 1999.
5. Chevrier V.F., A.W. Cramb, X-ray fluoroscopy observations of bubble formation and separation at a metal–slag interface, *Metallurgical Materials Transactions B* 31(3) (2000) 537–540.
6. Dimitrova T.D., F. Leal–Calderon, Colloid forces in model food–type emulsions, *Progress Colloid Polymer Science* 115(1) (2000) 156–160.
7. Kessler J.O., G.D. Burnett, K.E. Remick, Mutual Dynamics of Swimming Microorganisms and Their Fluid Habitat, *Lecture Notes in Physics*, Volume 542, Springer, 2000, p. 409.
8. Misra P., V. Chevrier, S. Sridhar, A.W. Cramb, In situ observations of inclusions at the (Mn,Si)–killed steel/CaO–Al<sub>2</sub>O<sub>3</sub> interface, *Metallurgical Materials Transactions B* 31(5) (2000) 1135–1139.
9. Petsev D.N., B.R. Thomas, S.–T. Yau, K.G. Vekilov, Interactions and aggregation of apoferritin molecules in solution: effects of added electrolytes, *Biophysical J.* 78 (2000) 2060–2069.
10. Zhang J., O. Ostrovski, K. Suzuki, Effect of temperature on cementite formation by reaction of iron ore with H<sub>2</sub>–CH<sub>4</sub>–Ar gas, *Metallurgical Materials Transactions B* 31(5) (2000) 1139–1142.
11. Dimitrova T.D., F.–L. Calderon, T.D. Gurkov, B. Campbell, Disjoining pressure vs. thickness isotherms of thin emulsion films stabilized by proteins, *Langmuir* 17 (2001) 8069–8077.
12. Dukhin S.S., O. Saether, J. Sjoblom, in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, Ch. 4, pp. 71–93.
13. Hunter R.J., *Foundations of Colloid Science* (2<sup>nd</sup> Edition), Oxford University Press, Oxford, UK, 2001, p. 155.
14. Hunter R.J., *Foundations of Colloid Science* (2<sup>nd</sup> Edition), Oxford University Press, Oxford, UK, 2001, p. 257.
15. Mang T., W. Dresel (Eds.), *Lubricants and Lubrication*, Wiley, New York, 2001.
16. Sarma T.K., A. Chattopadhyay, Visible spectroscopic observation of controlled fluid flow up along a soap bubble film from a pool of solution, *J. Phys. Chem. B* 105 (2001) 12503–12507.
17. Wang J., A.J. Bard, Direct atomic force microscopic determination of surface charge at the gold/electrolyte interface – the inadequacy of classical GCS theory in describing the double–layer charge distribution, *J. Phys. Chem. B* 105(22) (2001) 5217–5222.
18. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
19. Ambrosone L., R. Angelico, G. Cinelli, The role of water in the oxidation process of extra virgin olive oils, *J. American Oil Chem. Society* 79(6) (2002) 577–582.
20. Duclairoir U., E. Nakache, Polymer nanoparticle characterization in aqueous suspensions, *Int. J. Polymer Analysis and Characterization* 7(4) (2002) 284–313.
21. Ghosh P., V.A. Juvekar, Analysis of the drop rest phenomenon, *Trans. Inst. Chem. Eng. A* 80 (2002) 715–728.
22. Gu Y.G., D.Q. Li, Deposition of spherical particles onto cylindrical solid surfaces: I. Numerical simulations, *J. Colloid Interface Sci.* 248(2) (2002) 315–328.
23. Gurkov T.D., E.S. Basheva, Hydrodynamic behavior and stability of approaching deformable drops, in: A.T. Hubbart (Ed.), *Encyclopedia of Surface and Colloid Science*, Marcel Dekker, New York, 2002.
24. Hadjiiski A., S. Tcholakova, I.B. Ivanov, T.D. Gurkov, E.F. Leonard, Gentle film trapping technique with application to drop entry measurements, *Langmuir* 18 (2002) 127–138.
25. Petsev D., Mechanisms of emulsion flocculation, in: A.T. Hubbart (Ed.), *Encyclopedia of Surface and Colloid Science*, Marcel Dekker, New York, 2002.
26. Wan J., T.K. Tokunaga, Partitioning of clay colloids at air–water Interfaces, *J. Colloid Interface Sci.* 247(1) (2002) 54–61.
27. Bartels T., W. Bock, J. Braun, C. Busch, W. Buss, W. Dresel, C. Freiler, Lubricants and lubrication, in: Ullmann’s *Encyclopedia of Industrial Chemistry*, 2003.
28. Bitea C., C. Walther, J.I. Kim, H. Geckeis, T. Rabung, F.J. Scherbaum, D.G. Cacuci, Time–resolved observation of ZrO<sub>2</sub>–colloid agglomeration, *Colloids Surfaces A* 215(1–3) (2003) 55–66.
29. Cordelair J., P. Greil, Application of the method of images on electrostatic phenomena in aqueous Al<sub>2</sub>O<sub>3</sub> and ZrO<sub>2</sub> suspensions, *J. Colloid Interface Sci.* 265 (2003) 359–371.
30. Lansalot M., A. Elaissari, O. Mondan–Mouval, in: A. Elaissari (Ed.), *Colloidal Polymers*, Marcel Dekker, New York, 2003, Ch. 14, pp. 381–418.

31. Saether O., J. Sjoblom, S.S. Dukhin, Droplet flocculation and coalescence in dilute oil-in-water emulsions, in: S. Friberg, K. Larsson, J. Sjoblom (Eds.), Food Emulsions, Fourth Edition, (Food Science and Technology), 2003, Ch. 5, p. 217.
32. Song J.H., W.-S. Kim, D.W. Lee, Comparison of retention behaviour of various polystyrene latex particles in gold colloids on different channel walls in flow field-flow fractionation, J. Liquid Chromatography and Related Technol. 26(18) (2003) 3003–3035.
33. Cao G., Nanostructures and Nanomaterials: Synthesis, Properties and Applications, Imperial College Press, London, 2004, p. 315.
34. Dimitrova T.D., F. Leal-Calderon, T.D. Gurkov, B. Campbell, Surface forces in model oil-in-water emulsions stabilized by proteins, Adv. Colloid Interface Sci. 108 (2004) 73–86.
35. Glomm W.R., Preparation and Characterization of Nanosized Structures with Applications in Bioscience and Materials, PhD Thesis, Department of Chemical Engineering, Norwegian University of Science and Technology, Trondheim, 2004.
36. Khin C.C., Microstructure and rheology of polymer-surfactant solutions, MSc Thesis, Department of Chemical and Biomolecular Engineering, National University, Singapore, 2004.
37. Molina-Bolivar J.A., J. Aguiar, J.M. Peula-Garcia, C.C. Ruiz, Surface activity, micelle formation, and growth of *n*-octyl- $\beta$ -D-thiogluco-pyranoside in aqueous solutions at different temperatures, J. Phys. Chem. B 108(34) (2004) 12813–12820.
38. Petsev D.N., Theory of emulsion flocculation, in: D.N. Petsev (Ed.), Emulsions: Structure, Stability and Interactions, Elsevier, London, 2004, p. 349.
39. Chevrier V., A.W. Cramb, Observation and measurement of bubble separation at liquid steel-slag interfaces, Scandinavian Journal of Metallurgy 34(2) (2005) 89–99.
40. Glomm W.R., Functionalized gold nanoparticles for applications in bionanotechnology, J. Dispersion Sci. Technology 26(3) (2005) 389–414.
41. Gurkov T.D., D. Dimitrova, K.G. Marinova, C. Bilke-Crause, C. Gerber, I.B. Ivanov, Ionic surfactants on fluid interfaces: determination of the adsorption; role of the salt and the type of the hydrophobic phase, Colloids Surfaces A 261(1–3) (2005) 29–38.
42. Schramm L.L., Emulsions, Foams, and Suspensions: Fundamentals and Applications, Wiley-VCH, New York, 2005, p. 410.
43. Veyret R., T. Delair, C. Pichot, A. Elaissari, Amino-containing magnetic nanoemulsions: elaboration and nucleic acid extraction, J. Magnetism Magnetic Materials 295(2) (2005) 155–163.
44. Abe M., K. Kamogawa, Surfactant-free emulsions, in: Encyclopedia in Surface and Colloid Science 2006, 6092–6107.
45. Cho H.-R., Chemistry of Tetravalent Plutonium and Zirconium: Hydrolysis, Solubility, Colloid Formation and Redox Reactions, PhD Thesis, Naturwissenschaftlich-Mathematischen Gesamtfakultät Der Ruprecht-Karls-Universität Heidelberg, 2006.
46. Molina-Bolivar J.A., J.M. Hierrezuelo, C.C. Ruiz, Effect of NaCl on the self-aggregation of *n*-octyl  $\beta$ -D-thiogluco-pyranoside in aqueous medium, J. Phys. Chem. B 110(24) (2006) 12089–12095.
47. Sosnowski T., Efekty dynamiczne w układach ciecz-gaz z aktywną powierzchnią międzyfazową, Prace Wydziału Inżynierii Chemicznej 30(2) (2006) 3–141.
48. Walther C., S. Buchner, M. Filella, V. Chanudet, Probing particle size distributions in natural surface waters from 15 nm to 2  $\mu$ m by a combination of LIBD and single-particle counting, J. Colloid Interface Sci. 301(2) (2006) 532–537.
49. Zetterlund P.B., M. Okubo, Effects of Laplace pressure on propagation and termination in aqueous heterogeneous free radical polymerization, Macromolecular Theory and Simulations 15(1) (2006) 40–45.
50. Giguere G., X.X. Zhu, Synthesis and aggregation properties of anionic star-shaped polymers with cholic acid cores and polyacrylate arms, J. Polymer Sci. A: Polymer Chemistry 45(17) (2007) 4173–4178.
51. Kankaanpää, Timo, CFD Procedure for Studying Dispersion Flows and Design Optimization of the Solvent Extraction Settler, Doctoral Thesis, Dept. Materials Sci. Engineering, Helsinki University of Technology, Helsinki, Finland, 2007.
52. Oh J., Fabrication of silver nanoparticles by solution phase method and physical characterization of their arrays, PhD Thesis, Wright State University, 2007.
53. Delos A., C. Valther, T. Schafer, S. Buchner, Size dispersion and colloid mediated radionuclide an a synthetic porous media, J. Colloid Interface Sci. 324 (2008) 212–215.
54. Jia Z., R.D.K. Misra, Self-assembled magnetic nanostructures, Materials Technology 23(2) (2008) 66–80.
55. Brenner T., Aggregation behavior of cod muscle proteins, PhD Thesis, Department of Chemistry, Faculty of Physical Sciences, University of Iceland, Reykjavík, 2009.

56. Mouaziz H., R. Veyret, A. Theretz, F. Ginot, A. Elaissari, Aminodextran containing magnetite nanoparticles for molecular biology applications: preparation and evaluation, *J. Biomedical Nanotechnology* 5(2) (2009) 172–181.
57. Mouaziz H., S. Braconnot, F. Ginot, A. Elaissari, Elaboration of hydrophylic aminodextran containing submicron magnetic particles, *Colloid Polymer Sci.* 287(3) (2009) 287–297.
58. Baker B.A., Emptying double-stranded DNA probes on colloidal substrates for competitive hybridization events, PhD Thesis, Georgia Institute of Technology, 2010.
59. Haist M., Zur Rheologie und den physikalischen Wechselwirkungen bei Zementsuspensionen, KIT Scientific Publishing, 2010.
60. Lee E., H.K. Shon, J. Cho, Biofouling characteristics using flow field–flow fractionation: Effect of bacteria and membrane properties, *Bioresource Technology* 101 (2010) 1487–1493.
61. Stocco A., D. Carriere, M. Cottat, D. Langevin, Interfacial behavior of cationic surfactants, *Langmuir* 26(13) (2010) 10663–10669.
62. Li X., H. Tian, Y. Ding, X. Li, Fabrication of high-aspect-ratio microstructures using dielectrophoresis-electrocapillary force-driven UV-imprinting, *Journal of Micromechanics and Microengineering* 21(6) (2011) 065010.
63. Wang W., Z. Li, J. Li, Y. Wu, Oriented immobilization of penicillin G acylase on the epoxydized magnetic hydroxyl particles by phenyl acetic acid, *Advanced Materials Research* 550–553 (2012) 1345–1351.
64. Abdul-Fattach A.M., R. Oeschger, H. Roehl, I.B. Dauphin, M. Worgull, G. Kallmeyer, H.-C. Mahler, Investigating factors leading to fogging of glass vials in lyophilized drug products, *European Journal of Pharmaceutical and Biopharmaceutical* 85(2) (2013) 314–326.
65. Gurkov T., B. Nenova, E. Kostova, W. Gaschler, Interfacial rheology of viscoelastic surfactant-polymer layers, in: *Colloid and Interface Chemistry for Nanotechnology*, 2013, 351–367.
66. May S., A. Fahr, Self-assembled delivery vehicles for poorly water-soluble drugs: Basic theoretical considerations and modeling concepts, in: *Drug delivery Strategies for Poorly Water-Soluble Drugs*, 2013, Ch. 1.
67. Vitasari D., P. Grassia, P. Martin, Surfactant transport onto a foam lamella, *Chemical Engineering Science* 102 (2013) 405–423.
68. Zhang Y., A. Martin, P. Grassia, Prediction of thickener performance with aggregate densification, *Chemical Engineering Science* 101 (2013) 346–358.
69. Dos Santos V., N.P. da Silveira, C.P. Bergmann, In-situ evaluation of particle size distribution of ZrO<sub>2</sub> nanoparticles obtained by sol-gel, *Powder Technology* 267 (2014) 392–397.
70. Dresel W., Lubricating greases, in: *Encyclopedia of Lubricants and Lubrication*, 2014, 1076–1079.
71. Fiel L.A., R.V. Contry, J.F. Bica, F. Figueiro, A.M.O. Battastini, S.S. Gueterres, A.R. Pohlmann, Labeling the oily core of nanocapsules and lipid-core nanocapsules with a triglyceride conjugated to a fluorescent dye as a strategy to particle tracking in biological studies, *Nanoscale Research Letters* 9 (2014) 233.
72. Lam K.F., Diffuse interface models of soluble surfactants in two-phase fluid flows. PhD Thesis, University of Warwick, 2014.
73. Mischler W., Systematic measurements of bubble induced gas exchange for trace gases with low solubilities, PhD Thesis, Ruperto-Carola University of Heidelberg, Germany, 2014.
74. Muller R., Laboratory methods for testing lubricants, in: *Encyclopedia of Lubricants and Lubrication*, 2014, 1025–1029.
75. Schramm L.L., Emulsions, Foams, Suspensions, and Aerosols: Microscience and Application, 2014, 1–492.
76. Zhou L., L. Wei, X. Du, Y. Yang, P. Jing, B. Wang, Effects of nanoparticle behaviors and interfacial characteristics on subcooled nucleate pool boiling over microwere, *Experimental Thermal and Fluid Science* 57 (2014) 310–316.
77. Kassuga T.D., J.P. Rothstein, Buckling of particle-laden interfaces, *J. Colloid Interface Science* 448 (2015) 287–296.
78. Kaptay G., Partial surface tension of components of a solution, *Langmuir* 31(21) (2015) 5796–5804.
79. Karakashev S., S. Smoukov, Fast estimation of the equilibrium adsorption constants of ionic surfactants with account for ion-specific effects, *Colloids Surfaces A* 467 (2015) 143–148.
80. Vespini V., S. Coppola, M. Todino, M. Paturzo, V. Bianco, S. Grilli, P. Ferraro, Forward electrohydrodynamic inkjet printing of optical microlenses on microfluidic devices, *Lab on a Chip* 16(2) (2016) 326–333.
81. Vitasari D., P. Grassia, P. Martin, Surfactant transport onto a foam film in the presence of surface viscous stress, *Applied Mathematical Modeling* 40(3) (2016) 1941–1958.
82. Wakwaya A., Wettability in chalk, effect of initial water saturation on the adsorption of polar oil component, Master Thesis, Faculty of Science and Technology, University of Stavanger, 2016.

83. Javadian S., J. Kakemam, Intermicellar interactions in surfactant solutions: A review study, *Journal of Molecular Liquids* 242 (2017) 115–129.
  84. Medronho B., A. Filipe, C. Costa, A. Romano, B. Lindman, H. Edlund, M. Norgren, Microrheology of novel cellulose stabilized oil-in-water emulsions, *Journal of Colloid and Interface Science* 531 (2018) 225–232.
  85. Grigoriev V.V., P.N. Vabishchevich, Bayesian estimation of adsorption and desorption parameters for pore scale transport. *Mathematics* 9 (2021) 1974.
  86. Pital A., J. Kim, A. Stockton, Colloid precipitation and interactions at a flowing solution-solution interface in confined geometries, *Colloids and Surfaces A* 629 (2021) 127431.
  87. Molnar D., M. Rohm, J. Wutz, I. Rivec, A. Michel, G. Klotz, J. Hubbuch, K. Schindowski, I. Presser, A novel MATLAB®-algorithm-based video analysis to quantitatively Determine solution creeping in intact pharmaceutical glass vials, *European Journal of Pharmaceutics and Biopharmaceutics* 178 (2022) 117–130.
  88. Grigoriev V.V., Identification of homogeneous-heterogeneous pore-scale reaction rates in porous media, *Математические заметки СВФУ* 30 (2023) 101–122.
  89. Grigoriev V.V., W. Xie, Non-Newtonian Flow on Homogeneous-Heterogeneous Pore-Scale Reactive Transport: A Computational Analysis, *Lobachevskii Journal of Mathematics* 44 (2023) 4116–4126.
- 59 O.D. Veleв, K.D. Danov, I.B. Ivanov, Stability of emulsions under static and dynamic conditions, J. Disp. Sci. Technol. 18(6–7) (1997) 625–645. (брой: 13)**
1. Semenova M.G., Proteins as functional components in colloidal foods, *Curr. Opin. Colloid Interface Sci.* 3(6) (1998) 627–632.
  2. Saidshazilch, Effect of interfacial characteristics on phase inversion, PhD Thesis, Dalhausie University, Daltech, 1999.
  3. Cui C.J., S.P. Schwendeman, Surface entrapment of polylysine in biodegradable poly(DL-Lactide-co-glycolide) microparticles, *Macromolecules* 34(24) (2001) 8426–8433.
  4. Djuve J., X. Yang, I.J. Fjellanger, et al., Chemical destabilization of crude oil based emulsions and asphaltene stabilized emulsions, *Colloid Polym. Sci.* 279(3) (2001) 232–239.
  5. El-Ali M.S., Performance characteristic of a novel liquid-liquid contactor, PhD Thesis, Dalhouse University, 2001.
  6. Gurkov T., E. Basheva, Hydrodynamic behaviour and stability of approaching deformable drops, in: *Encyclopedia in Surface and Colloid Science*, Marcel Dekker, 2002, Ch. B6.
  7. Ikeda N., R. Krustev, H.J. Muller, Thermodynamic consideration on single oil in water emulsion film stabilized by cationic surfactant, *Adv. Colloid Interface Sci.* 108–109 (2004) 273–286.
  8. Van Aken G.A., Coalescence mechanisms in protein-stabilized emulsions, in: *Food Emulsions*, Marcel Dekker, 2004, Ch. 8.
  9. Friberg S.E., Some emulsion features, *Journal of Dispersion Science and Technology* 28(8) (2007) 1299–1308.
  10. Semenova M.G., Thermodynamic analysis if the impact of molecular interactions on the functionality of fod biopolymers in solution and in colloid systems, *Food Hydrocolloids* 21(1) (2007) 23–45.
  11. Ramstad T., A. Hansen, P.E. Oren, Flux-dependent percolation transition in immiscible two-phase flows in porous media, *Phys. Review E* 79(3) (2009) Pap. No, 036310.
  12. Sun G., M. Liu, X. Zhou, L. Hong, T. Ngai, Influence of asymmetric ratio of amphiphilic diblock copolymers on one-step formation and stability of multiple emulsions, *Colloids Surfaces A* 454 (2014) 16–22.
  13. Chatzigiannakis E., Thin liquid films: Where hydrodynamics, capillary, interfacial stresses, and intermolecular forces meet, Ph.D. Thesis, ETH Zurich, 2021.
- 58 K. Velikov, C. Dietrich, A. Hadjiski, K. Danov, B. Pouligny, Motion of a massive microsphere bound to a spherical vesicle, Europhysics Lett. 40(4) (1997) 405–410. (брой: 23)**
1. Langevin D., Dynamics of surfactant layers, *Curr. Opin. Colloid Interface Sci.* 3(6) (1998) 600–607.
  2. Dimova R., Hydrodynamic Properties of Model Membranes Studied by Means of Optical Manipulation of Particles, PhD Thesis, Bordeaux Universite I, Bordeaux, France, 1999.
  3. Helfer E., S. Harlepp, L. Bourdieu, J. Robert, F.C. MacKintosh, D. Chatenay, Viscoelastic properties of actin-coated membranes, *Phys. Rev. E* 63(2) (2001) 1–13.
  4. Kralchevsky P.A., K. Nagayama, Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two-Dimensional Arrays, Elsevier, Amsterdam, 2001, Ch. 9.
  5. Lee S.J., J.S. Keiper, Giant vesicles and microchemical vessels, in: *Reaction and Synthesis in Surfactant Systems*, Marcel Dekker, 2001, Ch. 7.



6. Petkov J., N.D. Denkov, Dynamics of particles on interfaces and thin liquid films, In: Encyclopedia of Surface and Colloid Science, A. Hubbard, Ed.; Marcel Dekker, New York, 2001.
  7. Rutenberg A.D., M. Grant, Curved tails in polymerization-based bacterial mobility, *Physical Review E* 64 (2001) 7.
  8. Casner A., Déformations, manipulations et instabilités d'interfaces liquides induites par la pression de radiation d'une onde laser, PhD Thesis, Université Sciences et Technologies–Bordeaux I, 2002.
  9. D'Onofrio T., Manipulating and measuring the physical properties and local structure of biomembranes, PhD Thesis, Pensilvania State University, 2003.
  10. D'Onofrio T.G., A. Hatzor, A.E. Counterman, J.J. Heetderks, M.J. Sandel, P.S. Weiss, Controlling and measurements of interdependence of local properties in biomembranes, *Langmuir* 19(5) (2003) 1618–1623.
  11. Karlsson R., Fabrication and dynamic control of surfactant-membrane networks with applications in nanofluidics and membrane-based transport, PhD Thesis, Goteborg University, 2003.
  12. Puff N., M. Angelova, Lipid vesicles – development and application for studding membrane heterogeneity and interactions, *Advances in Planar Lipid Bilayers and Liposomes*, vol. 5 (2006) 173–228.
  13. Angelova M.I., Liposome electroformation, *Giant Vesicles: Perspectives in Supramolecular Chemistry* 6 (2007) 26–36.
  14. Den Otter W.K., S.A. Shkulipa, Intermonolayer friction and surface shear viscosity of lipid bilayer membranes, *Biophysical J.* 93(2) (2007) 423–433.
  15. Faivre M., Gouttes, vésicules et globules rouges: Deformabilité et comportement sous écoulement, PhD Thesis, Université Joseph–Fourier–Grenoble I, 2007.
  16. Pozrikidis C., Particle motion near and inside an interface, *J. Fluid Mech.* 575 (2007) 333–357.
  17. Tajparast M., M.I. Glavinovich, Forces and stresses acting on fusion pore membrane during secretion, *Biochimica et Biophysica Acta – Biomembranes* 1788(5) (2009) 1009–1023.
  18. Melzak K.A., S. Moreno–Flores, A.E. Lopez, J.L. Toca–Herrera, Why size and speed matter: Frequency dependence and the mechanical properties of biomolecules, *Soft Matter* 7(2) (2011) 332–342.
  19. Herold C., Diffusion and Conformational Dynamics of Semiflexible Macromolecules and Supramolecular Assemblies on Lipid Membranes, Ph. D. Thesis, Technical University, Dresden, 2012.
  20. Srivastav A., Interaction et diffusion hydrodynamiques dans une suspension de vésicules et globules rouges, PhD Thesis, Universitet Grenoble, 2012.
  21. Pozrikidis C., Capillary attraction of floating rods, *Engineering Analysis with Boundary Elements* 36(5) (2012) 836–844.
  22. Petkov J.T., N.D. Denkov, Thin liquid films and interfaces: particle dynamics, in: *Encyclopedia of Surface and Colloid Science*, 2015, 7399–7414.
  23. Faizi H.A., R. Dimova, P.M. Vlahovska, A vesicle microrheometer for high-throughput viscosity measurements of lipid and polymer membranes, *Biophysical Journal* 121 (2022) 910–918.
- 57 T.S. Horozov, P.A. Kralchevsky, K.D. Danov, I.B. Ivanov, Interfacial rheology and kinetics of adsorption from surfactant solutions, J. Disp. Sci. Technol. 18(6–7) (1997) 593–607. (брой: 9)**
1. Petkov J.T., T.D. Gurkov, B.E. Campbell, R.P. Borwankar, Dilatational and shear elasticity of gel-like protein layers on air/water interface, *Langmuir* 16(8) (2000) 3703–3711.
  2. Murray B.S., Interfacial rheology of food emulsifiers and proteins, *Curr. Opin. Colloid Interface Sci.* 7(5–6) (2002) 253–476.
  3. Patist A., J.R. Kanicky, P.K. Shukla, D.O. Shah, Importance of micellar kinetics in relation to technological processes, *J. Colloid Interface Sci.* 245(1) (2002) 1–15.
  4. Daniel R.C., J.C. Berg, A simplified method for predicting the dynamic surface tension of concentrated surfactant solutions, *J. Colloid Interface Sci.* 260(1) (2003) 244–249.
  5. Führling C., Interactions between Proteins, Sugars and Surfactants – Dynamic Studies on Adsorption at Interfaces, PhD Thesis, Naturwissenschaftlichen Fakultäten, Universität Erlangen–Nürnberg, Germany, 2004.
  6. Gajardo W.A.K., Effect of frother on bubble coalescence, break-up, and initial rise velocity, PhD Thesis, McGill university, Montreal, Canada, 2008.
  7. Kracht W., J.A. Finch, Using sound to study bubble coalescence, *J. Colloid Interface Sci.* 332(1) (2009) 237–245.
  8. Gurkov T., B. Nenova, E. Kostova, W. Gaschler, Interfacial rheology of viscoelastic surfactant-polymer layers, in: *Colloid and Interface Chemistry for Nanotechnology*, Taylor & Francis (2014) 351–367.
  9. Qian S., Characterization of surfactant and protein foams using a polarized light scattering technique, PhD Thesis, The University of Auckland, 2015.

- 56 E.S. Basheva, K.D. Danov, P.A. Kralchevsky, Experimental study of particle structuring in vertical stratifying films from latex suspensions, *Langmuir* 13 (1997) 4342–4348. (брой: 29)
- Bergeron V., Measurement of forces and structure between fluid interfaces, *Curr. Opin. Colloid Interface Sci.* 4(4) (1999) 249–255.
  - Wasan D., A. Nikolov, Structural transitions in colloidal suspensions in confined films, *ACS Symposium Series* 736 (1999) 40–53.
  - McNamee C.E., Y. Tsujii, H. Ohshima, M. Matsumoto, Interaction forces between two hard surfaces in particle-containing aqueous systems, *Langmuir* 20 (2004) 1953–1962.
  - McNamee C.E., Y. Tsujii, H. Ohshima, M. Matsumoto, Interaction forces between two silica surfaces in an apolar solvent containing an anionic surfactant, *Langmuir* 20 (2004) 1791–1798.
  - Murray B.S., R. Ettelaie, Foam stability: proteins and nanoparticles, *Curr. Opin. Colloid Interface Sci.* 9(5) (2004) 314–320.
  - Tamura T., Y. Kaneko, Foam film stability in aqueous systems, in: S. Hartland (Ed.), *Surface and Interfacial Tension: Measurement, Theory, and Applications*, Marcel Dekker, New York, 2004, p. 145.
  - Blawdziewicz J., E. Wajnryb, Phase equilibria in stratified thin liquid films stabilized by colloidal particles, *Europhys. Lett.* 71(2) (2005) 269–275.
  - Blawdziewicz J., E. Wajnryb, Equilibrium and nonequilibrium thermodynamics of particle-stabilized thin liquid films, *Journal of Chemical Physics* 129(19) (2008) 194509.
  - Golemanov K., N. Denkov, S. Tcholakova, M. Vethamuthu, A. Lips, Surfactant mixtures for control of bubble surface mobility in foam studies, *Langmuir* 24(18) (2008) 9956–9961.
  - Hunter T.N., R.J. Pugh, G.V. Franks, G.J. Jameson, The role of particles in stabilising foams and emulsions, *Advances in Colloid and Interface Science* 137 (2) (2008) 57–81.
  - Vijayaraghavan K., A. Nikolov, D. Wasan, D. Henderson, Foamability of liquid particle suspensions: A modeling study, *Industrial and Engineering Chemistry Research* 48(17) (2009) 8180–8185.
  - Nikolov A., K. Kondiparty, D. Wasan, Nanoparticle self-structuring in a nanofluid film spreading on a solid surface, *Langmuir* 26(11) (2010) 7665–7670.
  - Tan S.N., Y. Yang, R.G. Horn, Thinning of a vertical free-draining aqueous film incorporating colloidal particles, *Langmuir* 26(1) (2010) 63–73.
  - Zeng Y., S. Grandner, C.L.P. Oliveira, A.F. Thunemann, O. Paris, J.S. Pedersen, S.H.L. Klapp, R. von Klitzing, Effect of particle size and Debye length on order parameters of colloidal silica suspensions under confinement, *Soft Matter* 7(22) (2011) 10899–10909.
  - Zeng Y., Structuring of nanoparticle suspensions confined between two smooth solid surfaces, *Colloidal Dispersions Under Slit-Pore Confinement*, Springer Thesis, 2012, 37–62.
  - Zeng Y., S. Schon, R. Von Klitzing, Colloidal particles in thin liquid films, *Colloidal Process Engineering* (2015) 3–20.
  - Lee J., D. Wasan, A. Nikolov, Stratification of a foam film formed from a nonionic micellar solution: experiments and modelling, *Langmuir* 32(19) (2016) 4837–4847.
  - Cho H.K., A.D. Nikolov, D.T. Wasan, Estimation of structural film viscosity based on the bubble rise method in a nanofluid, *Journal of Colloid and Interface Science* 516 (2018) 312–316.
  - Feng H., Neutron scattering study on large length scale sample structures, PhD Thesis, Department of Physics Indiana University, 2018.
  - Ludwig M., M.U. Witt, R. von Klitzing, Bridging the gap between two different scaling laws for structuring of liquids under geometrical confinement, *Advances in Colloid and Interface Science* 269 (2019) 270–276.
  - Yilixitiati S., E. Wojcik, Y. Zhang, V. Sharma, Spinodal stratification in ultrathin micellar foam films, *Molecular Systems Design and Engineering* 4(3) (2019) 626–638.
  - Kaewpet T., J.F. Gilchrist, Chemical vs. mechanical microstructure evolution in drying colloid and polymer coatings, *Scientific Reports* 10 (2020) 10264.
  - Ludwig M., Surface forces across colloidal dispersions, PhD Thesis, Darmstadt Technical University, Germany, 2021.
  - Ochoa C., C. Xu, C.D.V. Martinez Narvaez, W. Yang, Y. Zhang, V. Sharma, Drainage via stratification and nanoscopic thickness transitions of aqueous sodium naphthenate foam films, *Soft Matter* 17 (2021) 8915–8924.
  - Ochoa C., S. Gao, S. Srivastava, V. Sharma, Foam film stratification studies probe intermicellar interactions, *PNAS* 118 (2021) e2024805118.
  - Scarratt L.R.J., G. Trefalt, M. Borkovec, Forces between interfaces in concentrated nanoparticle suspensions and polyelectrolyte solutions, *Current Opinion in Colloid and Interface Science* 55 (2021) 101482.

27. Nikolov A.D., D.T. Wasan, P. Wu, Solvation forces versus the nano-colloidal structural forces under the film confinement: Layer to in-layer structural transition in wetting solids, *Current Opinion in Colloid and Interface Science* 57 (2022) 101539.
  28. Hasan L., C. Xu, M. Boehm, S.K. Baier, V. Sharma, Ultrathin Micellar Foam Films of Sodium Caseinate Protein Solutions, *Langmuir* 39 (2023) 6102–6112.
  29. Xu C., C.D.V. Martinez Narvaez, P. Kotwis, V. Sharma, Polymer-Surfactant Complexes Impact the Stratification and Nanotopography of Micellar Foam Films, *Langmuir* 39 (2023) 5761–5770.
- 55 R.G. Alargova, K.D. Danov, J.T. Petkov, P.A. Kralchevsky, G. Broze, A. Mehreteab, Sphere-to-rod transition in the shape of anionic surfactant micelles determined by surface tension measurements, *Langmuir* 13(21) (1997) 5544–5551. (брой: 50)**
1. Diggs N.Z., Theoretical and experimental investigations of electrostatic effects associated with ionic surfactant micelles, PhD Thesis, MIT, 1998.
  2. Zoeller N., D. Blankschtein, Experimental determination of micelle shape and size in aqueous solutions of dodecyl ethoxy sulfates, *Langmuir* 14(25) (1998) 7155–7165.
  3. Rodriguez-Navarro C., E. Doehne, E. Sebastian, Influencing crystallization damage in porous materials through the use of surfactants: experimental results using sodium dodecyl sulfate and cetyltrimethylammonium chloride, *Langmuir* 16 (2000) 947–954.
  4. Mezzasalma S.A., Polymer chain size from geodesic path and geometrical Bolyai-Lobachevskij partition function. Application to swelling of macromolecules in solution and micellar growth, *J. Stat. Phys.* 102(5–6) (2001) 1331–1341.
  5. Noskov B.A., D.O. Grigoriev, in: *Surfactants: Chemistry, Interfacial Properties, Applications*, (Studies in Interface Science, Vol. 13), Elsevier, Amsterdam, 2001, p. 401.
  6. Svenson S., The role of steric constraints and intermolecular interactions in the formation of surfactant phases, in: J. Texter (Ed.), *Reactions and Synthesis in Surfactant Systems*, Marcel Dekker, New York, 2001, p. 711.
  7. Lee Y.-C., H.-S. Liu, Y.-Y. Wang, M.-W. Yang, S.-Y. Lin, Effects of temperature and concentration on the micellization of nonionic polyethoxylated surfactants, *J. Chin. Inst. Chem. Eng.* 33(5) (2002) 439–451.
  8. Vermathen M., P. Stiles, S.J. Bachofer, U. Simonis, Investigations of monofluoro-substituted benzoates at the tetradecyltrimethylammonium micellar interface, *Langmuir* 18(4) (2002) 1030–1042.
  9. Ganguli D., M. Ganguli, *Inorganic Particle Synthesis via Macro and Microemulsions: A Micrometer to Nanometer Landscape*, Kluwer/Plenum, New York, 2003.
  10. Srinivasan V., D. Blankschtein, Effect of counterion binding on micellar solution behavior: 2. Prediction of micellar solution properties of ionic surfactant-electrolyte systems, *Langmuir* 19(23) (2003) 9946–9961.
  11. Iwaura R., H. Minamikawa, T. Shimizu, Sodium chloride-induced self-assembly of microfibers from nanofiber components, *J. Colloid Interface Sci.* 277(2) (2004) 299–303.
  12. Molina-Bolivar J.A., J. Aguiar, J.M. Peula-Garcia, C.C. Ruiz, Surface activity, micelle formation, and growth of n-octyl- $\beta$ -D-thioglucopyranoside in aqueous solutions at different temperatures, *J. Phys. Chem. B* 108(34) (2004) 12813–12820.
  13. Svenson S., Self-assembly and self-organization: important processes, but can we predict them?, *J. Dispersion Sci. Technology* 25(2) (2004) 101–118.
  14. Vasilescu M., D. Angelescu, H. Caldaru, M. Almgren, A. Khan, Fluorescence study on the size and shape of sodium dodecyl sulphate-aluminium salt micelles, *Colloids Surfaces A* 235(1–3) (2004) 57–64.
  15. Aleiner G.S., O.G. Us'yarov, Adsorption of ions in the diffuse part of an electrical double layer at ionic surfactant solution-air interfaces in the presence of background electrolytes, *Colloid Journal* 70(3) (2008) 263–267.
  16. Giribabu K., M.L.N. Reddy, P. Ghosh, Coalescence of air bubbles in surfactant solutions: Role of salts containing mono-, di-, and trivalent ions, *Chemical Engineering Communications* 195 (3) (2008) 336–351.
  17. Hodgdon T., *Cryogenic Transmission Electron Microscopy as a Probe of Microstructural Transition in Complex Fluids*, PhD Thesis, University of Delaware, 2008.
  18. Shen L., H. Wang, G. Guerin, C. Wu, I. Manners, M.A. Winnik, A micellar sphere-to-cylinder transition of poly(ferrocenyldimethylsilane-*b*-2-vinylpyridine) in a selective solvent driven by crystallization, *Macromolecules* 41(12) (2008) 4380–4389.
  19. Hassan P.A., T.K. Hodgdon, M. Sagasaki, G. Fritz-Popovski, E.W. Kaler, Phase behavior and microstructure evolution in aqueous mixtures of cetyltrimethylammonium bromide and sodium dodecyl tri-oxyethylene sulfate, *Comptes Rendus Chimie* 12(1–2) (2009) 18–29.
  20. Crans D.C., S. Schoeberl, E. Gaidamauskas, B. Baruah, D.A. Roess, Antidiabetic vanadium compound and membrane interfaces: Interface-facilitated metal complex hydrolysis, *Journal of Biological Inorganic Chemistry* 16(6) (2011) 961–972.

21. Parekh P., D. Varade, J. Parikh, P. Bahadur, Anionic-cationic mixed surfactant systems: Micellar interaction of sodium dodecyl trioxyethylene sulfate with cationic gemini surfactants, *Colloid and Surfaces A* 385(1–3) (2011) 111–120.
22. Qiao Y., Y. Lin, Y. Wang, Z. Li, J. Huang, Metal-driven viscoelastic wormlike micelle in anionic/zwitterionic surfactant systems and template-directed synthesis of dendritic silver nanostructures, *Langmuir* 27(5) (2011) 1718–1723.
23. Dey J., Studies on the micellization behavior of surfactants in selected solvent media, PhD Thesis, North-Eastern Hill University, 2012.
24. Dey J., U. Thapa, K. Ismail, Aggregation and adsorption of sodium dioctylsulfosuccinate in aqueous ammonium chloride solution: Role of mixed counterions, *J. Colloid Interface Sci.* 367(1) (2012) 305–310.
25. Jiao L.-F., T. Kunugi, Li F.-C., The rheological characteristics of surfactant viscoelastic solutions at low shear rate, *Zero-Carbon Energy*, Kyoto, 2012, 261–268.
26. Petzetakis N., D. Walker, A.P. Dove, R.K. O'Reilly, Crystallization-driven sphere-to-rod transition of poly(lactide)-b-poly(acrylic acid) diblock copolymers: mechanism and kinetics, *Soft Matter* 8(28) (2012) 3408–3414.
27. Yu X., W.-B. Zhang, K. Yue, X. Li, H. Liu, Y. Xin, C.-L. Wang, C. Wesdemiotis, S.Z.D. Cheng, Giant molecular shape amphiphiles based on polystyrene-hydrophilic [60]fullerene conjugates: Click synthesis, solution self-assembly, and phase behavior, *Journal of American Chemical Society* 134(18) (2012) 7780–7787.
28. Pahalagedara M.N., L.R. Pahalagedara, C.-H. Kuo, S. Dharmarathna, S.L. Suib, Ordered mesoporous mixed metal oxides: Remarkable effect of pore size on catalytic activity, *Langmuir* 30(27) (2014) 8228–8237.
29. Valente A.J.M., J.J. Lopez Cascales, A.J. Fernandez Romero, Thermodynamic analysis of unimer-micelle and sphere-to-rod micellar transitions of aqueous solutions of sodium dodecylbenzenesulfonate, *Journal of Chemical Thermodynamics* 77 (2014) 54–62.
30. Wang R., Y. Li, Wetting ability in aqueous mixtures of amine oxide with anionic and nonionic surfactants, *Tenside, Surfactants, Detergents*, 51(3) (2014) 224–228.
31. Wang R., Y. Li, Y. Li, Interaction between cationic and anionic surfactants: Detergency and foaming properties of mixed systems, *J. Surfactants and Detergents*, 17(5) (2014) 881–888.
32. Endo C., Ito Y., Akabane C., Kaneko Y., Sakai H., Spontaneous emulsification of triolein induced by mixed micellar solutions of sodium polyoxyethylene alkyl ether sulfate and dodecyltrimethyl amine oxide, *Journal of Oleo Science* 64(9) (2015) 953–962.
33. Patel K., P. Jyoti Sharma, M. De, Comparative parametric study on development of porous structure of aluminium oxide in presence of anionic and cationic surfactants, *Ceramics International* 41(3) (2015) 3578–3588.
34. Khatun M.R., M.M. Islam, F.R. Rima, M.N. Islam, Apparent molar volume, adiabatic compressibility, and critical micelle concentration of flucloxacillin sodium in aqueous NaCl solutions at different temperatures, *Journal of Chemical and Engineering Data* 61(1) (2016) 102–113.
35. Wang S., K. Zhao, Dielectric analysis for the spherical and rodlike micelle aggregates formed from a gemini surfactant: Driving forces of micellization and stability of micelles, *Langmuir* 32(30) (2016) 7530–7540.
36. Chen Z., J. Penfold, P. Li, J. Douth, Y. Fan, Y. Wang, Effects of length and hydrophilicity/hydrophobicity of diamines on self-assembly of diamine/SDS gemini-like surfactants, *Soft Matter* 13(47) (2017) 8980–8989.
37. Santos M.S., E.C. Bascaia, F.W. Tavares, Effects of electrostatic correlations on micelle formation, *Colloids and Surfaces A* 533 (2017) 169–178.
38. Sultana N., Role of ammonium ion on the aggregation and adsorption properties of sodium dodecylsulfate, *Journal of Dispersion Science and Technology* 39(1) (2018) 92–99.
39. Thomas R.K., J. Penfold, Thermodynamics of air-water interface of mixtures of surfactants with polyelectrolytes, oligoelectrolytes, and multivalent metal electrolytes, *Journal of Physical Chemistry B* 122(51) (2018) 12411–12427.
40. Li P., J. Penfold, R.K. Thomas, H. Xu, Multilayers formed by polyelectrolyte-surfactant and related mixtures at air/water interface, *Advances in Colloid and Interface Science* 269 (2019) 43–86.
41. Risuleo G., C La Mesa, Nanoparticles and molecular delivery systems for nutraceuticals bioavailability, *Nutraceuticals in Veterinary Medicine*, Gupta R., Srivastava A., Lall R. (eds), Springer, Cham, (2019) 737–747.
42. Li P., Z. Wang, K. Ma, Y. Chen, Z. Yan, J. Panfold, R.K. Thomas, M. Campana, J.R.P. Webster, A. Washington, Multivalent electrolyte induced surface ordering and solution self-assembly in anionic surfactant mixtures: Sodium dodecyl sulfate and sodium diethylene glycol monododecyl sulfate, *Journal of Colloid and Interface Science* 565 (2020) 567–581.



43. Li J., H. Wang, R. Zhu, H. Chang, G. Xiong, J. Wu, H. Feng, P. Li, Economical synthesis of high surface area  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> for the adsorption of organic pollutant from wastewater, *American Journal of Chemical Engineering* 8 (2020) 76–89.
  44. Khatun R., Islam M., Islam D., Molecular interactions and aggregation behavior of cloxacillin sodium in water and aqueous NaCl solutions through volumetric and ultrasonic sound velocity studies at 298.15 K, *Oriental Journal of Chemistry* 36 (2020) 863–870.
  45. Mitrinova Z., H. Alexandrov, N. Denkov, S. Tcholakova, Effect of counter-ion on rheological properties of mixed surfactant solutions, *Colloid Surfaces A* 643 (2022) 128746.
  46. Padma Ishwarya S., P. Nisha, Insights into the composition, structure-function relationship, and molecular organization of surfactants from spent coffee grounds, *Food Hydrocolloids* 124 (2022) 107204.
  47. Penfold J., R. Thomas, Neutron reflection and the thermodynamics of the air-water interface, *Physical Chemistry Chemical Physics* 24 (2022) 8553–8577.
  48. Adam A.A., S. Ziegenheim, L. Janovak, M. Szabados, C. Bus, A. Kukovecz, Z. Konya, I. Dekany, P. Sipos, B. Kutus, Binding of Ca<sup>2+</sup> ions to alkylbenzene sulfonates: Micelle formation, second critical concentration and precipitation, *Materials* 16 (2023) 494.
  49. Chen Z., H. Wu, J. Fei, Q. Li, R. Ni, Y. Qio, D. Yang, L. Yu, Preparation and properties of a photocrosslinked MCl<sub>n</sub>-doped PDMA-g-PSMA hydrogel, *RSC Advances* 13 (2023) 2649–2662.
  50. Hao W., V.S. Molchanov, P.R. Podlesnyi, O.E. Phillippova, Effect of Electrostatic Interactions in Wormlike Micelles of Surfactants Based on Betaine and Charged Tertiary Amine with the Same Hydrophobic Groups, *Colloid Journal* 86 (2024) 306–314.
- 52 K.D. Danov, I.B. Ivanov, Critical film thickness and coalescence in emulsions, in: Second World Congress on Emulsions, Proceedings, Paris, France, 1997, No. 2–3–154. (брой: 7)**
1. Basheva E.S., T.D. Gurkov, I.B. Ivanov, G. Bantchev, B. Campbell, R. Borwankar, Size dependence of the stability of emulsion drops pressed against a large interface, *Langmuir* 15(20) (1999) 6764–6769.
  2. Dimov N.K., A.H. Ahmed, R.G. Alargova, P.A. Kralchevsky, P. Durbut, G. Broze, A. Mehreteab, Deposition of oil drops on a glass substrate in relation to the process of washing, *J. Colloid Interface Sci.* 224(1) (2000) 116–125.
  3. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two-Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 6.
  4. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
  5. Gurkov T.D., E.S. Basheva, Hydrodynamic behaviour and stability of approaching deformable drops, in: *Encyclopedia in of Surface and Colloid Science*, Marcel Decker, New York, 2002.
  6. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
  7. Petkova B., S. Tcholakova, M. Chenkova, K. Golemanov, D. Throley, S. Stoyanov, Foamibility of aqueous solutions: Role of surfactant type and concentration, *Advances in Colloid and Interface Science* 276 (2020) 102084.
- 51 K.D. Danov, P.M. Vlahovska, P.A. Kralchevsky, Effect of micelles and electrolyte on the adsorption kinetics, in: Second World Congress on Emulsions, Proceedings, Paris, France, 1997, No. 2–2–153. (брой: 1)**
1. Simaillaud B., M. Maze, B. Brule, J.-J. Potti, *Bulletin des Laboratoires des Ponts et Chaussees* 234 (septembre–octobre 2001), ref. 4371, pp. 3–15.
- 50 K.D. Danov, I.B. Ivanov, P.A. Kralchevsky, Interfacial rheology and emulsion stability, in: Second World Congress on Emulsions, Proceedings, Paris, France 1997, No. 2–2–152. (брой: 1)**
1. Angle C.W., in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, Ch. 24.
- 49 K.D. Danov, T.D. Gurkov, T. Dimitrova, I.B. Ivanov, D. Smith, Hydrodynamic theory for spontaneously growing dimple in emulsion films with mass transfer, J. Colloid Interface Sci. 188 (1997) 313–324. (брой: 36)**
1. Binks B.P., in: B.P. Bonks (Ed.), *Modern Aspects of Emulsion Science*, Royal Soc. Chem., 1998.
  2. Kabalnov A., Thermodynamic and theoretical aspects of emulsions and their stability, *Curr. Opin. Colloid Interface Sci.* 3(3) (1998) 270–275.

3. Bergeron V., Measurement of forces and structure between fluid interfaces, *Curr. Opin. Colloid Interface Sci.* 4(4) (1999) 249–255.
4. Chesters A.K., I.B. Bazhlekov, Effect of insoluble surfactants on drainage and rupture of a film between drops interacting under a constant force, *J. Colloid Interface Sci.* 230(2) (2000) 229–243.
5. Leshansky A.M., On the influence of mass transfer on coalescence of bubbles, *Int. J. Multiphase Flow* 27(1) (2001) 189–196.
6. Ren Z., Z.-R. Chen, J.H. Fan, Progress of study on surfactant and emulsion stability, *China Surfactant Detergent and Cosmetics* 6 (2001) 31–34.
7. Xu Q.Y., M. Nakajima, H. Nabetani, S. Ichikawa, X. Liu, Effect of the dispersion behavior of a nonionic surfactant on surface activity and emulsion stability, *J. Colloid Interface Sci.* 242(2) (2001) 443–449.
8. Hagesaether L., Coalescence and Breakup of Drops and Bubbles, PhD Thesis, Department of Chemical Engineering, Norwegian University of Science and Technology, Trondheim, Norway, 2002.
9. Tan C.S., M.L. Gee, G.W. Stevens, Optically profiling a draining aqueous film confined between an oil droplet and a solid surface: effect of non-ionic surfactants, *Langmuir* 19(19) (2003) 7911–7918.
10. Ikeda N., R. Krustev, H.J. Muller, Thermodynamic consideration on single oil in water emulsion film stabilized by cationic surfactant, *Adv. Colloid Interface Sci.* 108–109 (2004) 273–286.
11. Chevaillier J.P., E. Klaseboer, O. Masbernat, C. Gourdon, Effect of mass transfer on the film drainage between colliding drops, *J. Colloid Interface Sci.* 299(1) (2006) 472–485.
12. Garrett P.R., S.P. Wicks, E. Fowles, The effect of high volume fractions of latex particles on foaming and antifoam action in surfactant solutions, *Colloids Surfaces A* 282–283 (2006) 307–328.
13. Kralchevsky P.A., N.D. Denkov, Ivan B. Ivanov: remarkable figure in colloid science, *Colloids Surfaces A* 282–283 (2006) 1–7.
14. Jacobsen H.A., Chemical reactor modeling: multiphase reactive flows, *General Reactor Technology Chemical Reactor Modeling*, 2008, 1–1244.
15. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
16. Acevedo-Malave J.A., E. Sira, M. Garcia-Sucre, Film drainage between two drops: Vortex formation in thin liquid films, *Interciencia* 34(6) (2009) 380–384.
17. Nam Y.S., J.-W. Kim, J. Shim, S. Hoon Han, H. Kon Kim, Silicone oil emulsions stabilized by semi-solid nanostructures entrapped at the interface, *J. Colloid Interface Sci.* 351(1) (2010) 102–107.
18. Chan D.Y.C., E. Klaseboer, R. Manica, Film drainage and coalescence between deformable drops and bubbles, *Soft Matter* 7(6) (2011) 2235–2264.
19. Chan D.Y.C., E. Klaseboer, R. Manica, Theory of non-equilibrium force measurements involving deformable drops and bubbles, *Adv. Colloid Interface Science*, 165(2) (2011) 70–90.
20. Radoev B., K.W. Stoeckelhuber, R. Tsekov, P. Letocart, Wetting film dynamics and stability, *Colloid Stability and Application in Pharmacy*, 3 (2011) 151–172.
21. Nam Y.S., Kim J.-W., Park J., Shim J., Lee J.S., Han S.H., Tocopherol acetate nanoemulsions stabilized with lipid-polymer hybrid emulsifiers for effective skin delivery, *Colloid and Surfaces B* 94 (2012) 51–57.
22. Vannozzi C., Coalescence of surfactants covered drops in extensional flows: effects of interfacial diffusivity, *Physics Fluids* 24(8) (2012) 082101.
23. Friberg D.E., D.H. Friberg, Emulsion formation, *Encyclopedia in Colloid and Interface Science*, 2013, 366–414.
24. Jacobsen H.A., Multiphase Flow, chemical Reactor Modeling, 2014, 369–536.
25. C. Dos Santos Cerqueira Coutinho, E.P. Dos Santos, C.R.E. Mansur, Nanosystems in photoprotection, *Journal of Nanoscience and Nanotechnology* 15(12) (2015) 9679–9688.
26. Chen S.A., L.Y. Clasohm, R.G. Hom, S.L. Camie, Osmotically driven deformation of a stable water film, *Langmuir* 31(35) (2015) 9582–9596.
27. Malmazed E.D., Fre Risso, O. Masbermat, V. Pauchard, Coalescence of contaminated water drops at an oil/water interface: influence of micro-particles, *Colloids and Surfaces A* 482(5) (2015) 514–528.
28. De Campos V.E.B., C.S. Cerqueira-Coutinho, F.N.C. Capella, B.G. Soares, C. Holandino, C.R.E. Mansur, Development and in vitro assessment of nanoemulsion for delivery of ketoconazole against *Candida albicans*, *Journal of Nanoscience and Nanotechnology* 17(7) (2017) 4623–4630.
29. Jin H., W. Wang, F. Liu, Z. Yu, H. Chang, K. Li, J. Gong, Roles of interfacial dynamics in the interaction behaviours between deformable oil droplets, *International Journal of Multiphase Flow* 94 (2017) 44–52.
30. Politova N., S. Tcholakova, N.D. Denkov, Factors affecting the stability of water-oil-water emulsion films, *Colloids Surfaces A* 522 (2017) 608–620.
31. Karthik P., C. Anandharamakrishnan, Droplet coalescence as a potential marker for physicochemical fate of nanoemulsions during in-vitro small intestine digestion, *Colloids and Surfaces A* 553 (2018) 278–287.

32. Shi X., G.G. Fuller, E.S.G. Shaqfeh, Oscillatory spontaneous dimpling in evaporating curved thin films, *Journal of Fluid Mechanics* 889 (2020) A25.
  33. Chatzigiannakis E., N. Jaensson, J. Vermant, Thin liquid films: Where hydrodynamics, capillarity, surface stresses and intermolecular forces meet, *Current Opinion in Colloid and Interface Science* 53 (2021) 101441.
  34. Chatzigiannakis E., J. Vermant, Dynamic stabilization during the drainage of thin film polymer solutions, *Soft Matter* 17 (2021) 4790–4803.
  35. Chatzigiannakis E., Thin liquid films: Where hydrodynamics, capillary, interfacial stresses, and intermolecular forces meet, Ph.D. Thesis, ETH Zurich, 2021.
  36. Radoev B., K.W. Stockelhuber, R. Tsekov, P. Letocart, Wetting film dynamics and stability, *Colloids and Interface Science Series* 6 (2014) 151–172.
- 48 P.M. Vlahovska, K.D. Danov, A. Mehreteab, G. Broze, Adsorption kinetics of ionic surfactants with detailed account for the electrostatic interactions. I. No added electrolyte, J. Colloid Interface Sci. 192 (1997) 194–206. (брой: 43)**
1. Warszynski P., W. Barzyk, K. Lunkenheimer, H. Fruhner, Surface tension and surface potential of Na n-dodecyl sulfate at the air–solution interface: model and experiment, *J. Phys. Chem. B* 102(52) (1998) 10948–10957.
  2. Datwani S.S., K.J. Stebe, The dynamic adsorption of charged amphiphiles: the evolution of the surface concentration, surface potential, and surface tension, *J. Colloid Interface Sci.* 219(2) (1999) 282–297.
  3. Bain C.D., S. Manning–Benson, R.C. Darton, Rates of mass transfer and adsorption of hexadecyltrimethylammonium bromide at an expanding air–water interface, *J. Colloid Interface Sci.* 229(1) (2000) 247–256.
  4. Fainerman V.B., A.V. Aksenenko, R. Miller, Effect of surfactant aggregation in the adsorption layer at the liquid/liquid interface on the shape of the surface pressure isotherm, *J. Phys. Chem. B* 104(24) (2000) 5744–5749.
  5. Fainerman V.B., D. Vollhardt, R. Johann, Arachidic acid monolayers at high pH of the aqueous subphase: studies of counterion bonding, *Langmuir* 16(20) (2000) 7731–7736.
  6. Aydogan N., N.L. Abbott, Interfacial properties of unsymmetrical bolaform amphiphiles with one ionic and one nonionic head group, *J. Colloid Interface Sci.* 242(2) (2001) 411–418.
  7. Fainerman V.B., R. Miller, in: *Surfactants: Chemistry, Interfacial Properties, Applications*, (Studies in Interface Science, Vol. 13), Elsevier, Amsterdam, 2001, p. 99.
  8. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 1.
  9. Miller R., A.V. Makievski, V.B. Fainerman, in: *Surfactants: Chemistry, Interfacial Properties, Applications*, (Studies in Interface Science, Vol. 13), Elsevier, Amsterdam, 2001, p. 287.
  10. Miller R., J. Kraegel, V.B. Fainerman, A.V. Makievski, D.O. Grigoriev, F. Ravera, L. Liggieri, D.Y. Kwok, A.W. Neumann, in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, pp. 1–45.
  11. Warszynski P., K.D. Wantke, H. Fruhner, Theoretical description of surface elasticity of ionic surfactants, *Colloids Surfaces A* 189(1–3) (2001) 29–53.
  12. White A.J.P., The effect of ionic surfactants on expanding free surfaces, PhD Thesis, Mathematical Institute, University of Oxford, 2001.
  13. Fainerman V.B., E.H. Lucassen–Reynders, Adsorption of single and mixed ionic surfactants at fluid interfaces, *Adv. Colloid Interface Sci.* 96(1–3) (2002) 295–323.
  14. Takahashi T., H. Yui, T. Sawada, Direct observation of dynamic molecular behavior at a water/nitrobenzene interface in a chemical oscillation system, *J. Phys. Chem B* 106(9) (2002) 2314–2318.
  15. Paria S., Studies of surfactant adsorption at the cellulose–water interface, PhD Thesis, Indian Institute of Technology, Bombay, 2003.
  16. Helvacı S.S., S. Peker, G. Ozdemir, Effect of electrolytes on the surface behavior of rhamnolipids R1 and R2, *Colloids Surfaces B* 35(3–4) (2004) 225–233.
  17. Sugiura S., M. Nakajima, T. Oda, M. Satake, M. Seki, Effect of interfacial tension on the dynamic behavior of droplet formation during microchannel emulsification, *J. Colloid Interface Sci.* 269(1) (2004) 178–185.
  18. Yasuno M., S. Sugiura, S. Iwamoto, M. Nakajima, A. Shono, K. Satoh, Monodispersed microbubble formation using microchannel technique, *AIChE J.* 50(12) (2004) 3227–3233.
  19. Paria S., C. Manohar, K.C. Khilar, Kinetics of adsorption of anionic, cationic, and nonionic surfactants, *Ind. Eng. Chem., Res.* 44(9) (2005) 3091–3098.

20. Yalcin M., A. Guerses, C. Dogar, M. Soezbilir, The adsorption kinetics of cethyltrimethylammonium bromide (CTAB) onto powdered active carbon, *Adsorption* 10(4) (2005) 339–348.
21. Kegel J., Formulierung und Charakterisierung steroidal “NanoCompounds” mit Hilfe eines aufbauenden Verfahrens, Cuvillier, 2006.
22. Moorkanikkara S.N., Development of novel methodologies to analyze the adsorption kinetics of nonionic surfactants, PhD Thesis, MIT, 2007.
23. Leick S., P. Degen, B. Kohler, H. Rehage, Film formation and surface gelation of gelatin molecules at the water/air interface, *Physical Chemistry Chemical Physics* 11(14) (2009) 2468–2474.
24. Van Dijke K.C., Emulsification with microstructures, PhD Thesis, Wageningen University, 2009.
25. Wierenga P.A., E.S. Basheva, N.D. Denkov, Modified capillary cell for foam film studies allowing exchange of the film-forming liquid, *Langmuir* 25(11) (2009) 6035–6039.
26. Klapper P., Tensiometrische Stofftransportuntersuchungen der Zinkextraktion mit dem Kationenaustauscher Di(2-ethylhexyl)phosphorsäure, PhD Thesis, TU Bergakademie, Freiburg, Germany, 2010.
27. Li X., R. Shaw, G.M. Evans, P. Stevenson, A simple numerical solution to the Ward–Tordai equation for the adsorption of non-ionic surfactants, *Computers and Chemical Engineering* 34(2) (2010) 146–153.
28. Van Dijke K., I. Kobayashi, K. Schroen, K. Uemura, M. Nakajima, R. Boom, Effect of viscosities of dispersed and continuous phases in microchannel oil-in-water emulsification, *Microfluidics and Nanofluidics* 9(1) (2010) 77–85.
29. Chevallier E., A. Mamane, H.A. Stone, C. Tribet, F. Lequeux, C. Monteux, Pumping-out photo-surfactants from an air-water interface using light, *Soft Matter* 7(17) (2011) 7866–7874.
30. Fujii K.B., I. Kobayashi, K. Uemura, M. Nakajima, Temperature effect on microchannel oil-in-water emulsification, *Microfluidics and Nanofluidics* 10(4) (2011) 773–783.
31. Stevenson P., R. Shaw, J. Tulloch, G. Evans, The influence of stirring upon the adsorption of a cationic surfactant onto activated carbon particles, *Adsorption Science and Technology* 29(2) (2011) 99–114.
32. Rojewska M., K. Prochaska, Adsorption properties of binary mixtures containing quaternary derivatives of lysosomotropic substances, *Colloid Surfaces A* 413 (2012) 154–161.
33. Chevallier E., Cascade d’effets induits par la lumière aux interfaces liquides, PhD Thesis, Pierre and Marie Curie University, 2013.
34. Svanedal I., G. Persson, M. Norgren, H. Edlund, Anomalies in solution behavior of an alkyl aminopolycarboxylic chelating surfactant, *Langmuir* 29(45) (2013) 13708–13716.
35. Gambhire P., R. Thakkar, Electrokinetic model for electric-field-induced interfacial instabilities, *Physical Review E* 89(3) (2014) 032409.
36. Moire M., Study of water/surfactants/oil interfacial properties by microfluidics, PhD Thesis, Ecole Paris 6, 2015.
37. Casandra A., The adsorption kinetic of ionic surfactant, PhD Thesis, Department of Chemical Engineering, National Taiwan University of Science and Technology, 2016.
38. Casandra A., Y.-C. Lin, L. Liggieri, F. Ravera, R.-Y. Tsai, S.-Y. Lin, Adsorption kinetics of the ionic surfactant decanoic acid, *International Journal of Heat and Mass Transfer* 102 (2016) 36–44.
39. Long J., Y. Jin, H. Sun, Y. Zheng, S. Tian, Synergistic solubilization of polycyclic aromatic hydrocarbons by mixed micelles composed of a photoresponsive surfactant and a conventional non-ionic surfactant, *Separation and Purification Technology* 160 (2016) 11–17.
40. Casandra A., Y.-C. Lin, R.-Y. Tsai, S.-Y. Lin, Adsorption kinetics of a partially protonated cationic surfactant dodecylamine, *Journal of Molecular Liquids* 256 (2018) 312–319.
41. Lapucha J., Liquid content predictors for aqueous foams, PhD Thesis, Tulane University, 2018.
42. Ziegler E.E., Strömungsdynamik und Stofftransport in einem Strahl-Kolonnenflotationsapparat zur Abtrennung oberflächenaktiver Substanzen aus wässrigen Stoffströmen, PhD Thesis, Stuttgart University, 2019.
43. Liu Y., Y. Li, A. Hensel, J.J. Brandner, K. Zhang, X. Du, Y. Yang, A review on emulsification via microfluidic processes, *Frontiers in Chemical Science and Engineering* 14 (2020) 350–364.
47. **T.S. Horozov, C.D. Dushkin, K.D. Danov, L.N. Arnaudov, O.D. Velev, A. Mehreteab, G. Broze, Effect of the surface expansion and wettability of the capillary on the dynamic surface tension measured by the maximum bubble pressure method, *Colloids Surfaces A* 113 (1996) 117–126. (брой: 20)**
  1. Fainerman V.B., R. Miller, The maximum bubble pressure tensiometry, in: D. Möbius, R. Miller (Eds.), *Drops and Bubbles in Interfacial Research*, Elsevier, Amsterdam, 1998.
  2. Kovalchuk V.L., V.B. Fainerman, R. Miller, S.S. Dukhin, Bubble formation in maximum bubble pressure measuring systems employing a gas reservoir of limited volume, *Colloids Surfaces A* 143(2–3) (1998) 381–393.



3. Lylyk S.V., A.V. Makievski, V.I. Koval'chuk, K.-H. Schano, V.B. Fainerman, R. Miller, The effect of capillary characteristics on the results of dynamic surface tension measurements using the maximum bubble pressure method, *Colloids Surfaces A* 135(1–3) (1998) 27–40.
  4. Wu N., J.L. Dai, F.J. Micale, Dynamic surface tension measurement with a dynamic Wilhelmy plate technique, *J. Colloid Interface Sci.* 215(2) (1999) 258–269.
  5. Experimental technique and analysis of tensiograms, *Studies in Interface Science* 8(C) (2000) 41–67.
  6. Kazakov V.N., A.F. Vozianov, O.V. Sinyachenko, D.V. Trukhin, V.I. Kovalchuk, U. Pison, Studies on the application of dynamic surface tensiometry of serum and cerebrospinal liquid for diagnostic and motoring of treatment in patients who have rheumatic, neurological or oncological diseases, *Adv. Colloid Interface Sci.* 86(1–2) (2000) 1–38.
  7. Kovalchuk V.I., S.S. Dukhin, Dynamic effects in maximum bubble pressure experiments, *Colloids Surfaces A* 192(1–3) (2001) 131–155.
  8. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two-Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 1.
  9. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two-Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 11.
  10. Marinova K.G., N.D. Denkov, Foam destruction by mixed solid-liquid antifoams in solutions of alkyl glucoside: electrostatic interactions and dynamic effects, *Langmuir* 17(8) (2001) 2426–2436.
  11. Mathes H., *Monodisperse Schaume*, PhD Thesis, Bremen University, 2004.
  12. Shi D., D. Li, G. Gao, L. Wang, Experimental study on new method and automatic system for fast evaluating Al-Si alloy modification effect in front of furnace, *Science in China Series E: Technological Sciences* 49(5) (2006) 569–575.
  13. Li Y.-H., S.-B. Wang, L.-P. Chang, Research progress on methods for measurements of surface (interfacial) tension, 2007.
  14. Li D.-Y., D.-Q. Wang, L.-H. Wang, The new method for fast testing surface tension of liquid alloy and its application in foundry production, 68<sup>th</sup> World Foundry Congress 2008, WFC 2008, 343–347.
  15. Shi D., D. Li, G. Gao, New method and device to fast measure surface tension of the melt and its applications in foundry, *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science* 39 (1) (2008) 46–55.
  16. Boitte J.B., L. Benyahia, N. Brambati, A.M. Buchert, C. Michon, *Rheologie* 19 (2011) 61–68.
  17. Casandra A., M.-C. Chung, B.A. Noskov, S.-Y. Lin, Adsorption kinetics of sodium dodecyl sulfate at perturbed air-water interface, *Colloids and Surfaces A* 518 (2017) 241–248.
  18. Levi O., R. Freud, E. Sher, Dynamic surface tension of gasoline and alcohol fuel blends, *Atomization and Sprays* 27(1) (2017) 1–5.
  19. Lu Y., Investigation of two-phase flow during liquid displacement in microchannels: Experiments and CFD simulations, PhD Thesis, University of Birmingham, 2018.
  20. Needham D., K. Kinoshita, A. Utoft, Micro-surface and -interfacial tensions measured using the micropipette technique: Applications in ultrasound-microbubbles, oil-recovery, lung-surfactants, nanoprecipitation, and microfluidics, *Micromachines* 10 (2019) 105.
- 46 K.D. Danov, P.M. Vlahovska, T. Horozov, C.D. Dushkin, P.A. Kralchevsky, A. Mehreteab, G. Broze, Adsorption from micellar surfactant solutions: nonlinear theory and experiment, J. Colloid Interface Sci. 183 (1996) 223–235. (брой: 35)**
1. Binks B.P., W.G. Cho, P.D.I. Fletcher, Disjoining pressure isotherms for oil-water-oil emulsion films, *Langmuir* 13(26) (1997) 7180–7185.
  2. Fainerman V.B., R. Miller, The maximum bubble pressure tensiometry, in: D. Möbius, R. Miller (Eds.), *Drops and Bubbles in Interfacial Research*, Elsevier, Amsterdam, 1998, pp. 279–326.
  3. Li G., Mu Jian-hai, Sui Hua, *China Surfactant, Detergent and Cosmetics* 5(5) (1999) 27–32.
  4. Tuller M., D. Or, L.M. Dudley, Adsorption and capillary condensation in porous media: liquid retention and interfacial configurations in angular pores, *Water Resour. Res.* 35(7) (1999) 1949–1964.
  5. Williams C.L., A.R. Bhakta, P. Neogi, Mass transfer of a solubilize in a micellar solution and across an interface, *J. Phys. Chem. B* 103(16) (1999) 3242–3249.
  6. Eastoe J., J.S. Dalton, Dynamic surface tension and adsorption mechanism of surfactants at the air-water interface, *Adv. Colloid Interface Sci.* 85(2) (2000) 103–144.
  7. Alami E.O., Novel gemini surfactants based on natural products. Aggregation behaviour in aqueous solutions, *Doktorsavhandlingar vid Chalmers Tekniska Hogskola (1791)* (2001) 1–67.

8. Eastoe J., A. Rankin, R. Wat, C.D. Bain, Surfactant adsorption dynamics, *Int. Rev. Phys. Chem.* 20(3) (2001) 357–386.
9. Miller R., A.V. Makievski, V.B. Fainerman, in: *Surfactants: Chemistry, Interfacial Properties, Applications*, (Studies in Interface Science, Vol. 13), Elsevier, Amsterdam, 2001, p. 287.
10. Noskov B.A., D.O. Grigoriev, in: *Surfactants: Chemistry, Interfacial Properties, Applications*, (Studies in Interface Science, Vol. 13), Elsevier, Amsterdam, 2001, p. 401.
11. Contreras P., C. Podina, M. Olteanu, Transference of amphiphilic molecules from a flat interface to a finite system by convective diffusion, *Analele Universitatii Bucuresti* (2002) 115–120.
12. Noskov B.A., Kinetics of adsorption from micellar solutions, *Adv. Colloid Interface Sci.* 95(2–3) (2002) 237–293.
13. Miller R., Solubilization in surfactant systems, *Handbook of Surface and Colloid Chemistry* (2002) 511–538.
14. Daniel R.C., J.C. Berg, A simplified method for predicting the dynamic surface tension of concentrated surfactant solutions, *J. Colloid Interface Sci.* 260(1) (2003) 244–249.
15. Breward C.J.W., P.D. Howell, Straining flow of a micellar surfactant solution, *European J. Applied Mathematics* 15(5) (2004) 511–531.
16. China surfactant Detergent and Cosmetics, 35(6) (2005) 346.
17. Colegate D.M., C.D. Bain, Adsorption kinetics in micellar solutions of nonionic surfactants, *Phys. Rev. Lett.* 95(19) (2005) 1–4.
18. Fainerman V.B., V.D. Mys, A.V. Makievski, J.T. Petkov, R. Miller, Dynamic surface tension of micellar solutions in the millisecond and submillisecond time range, *J. Colloid Interface Sci.* 302(1) (2006) 40–46.
19. Jiang R., Y.-H. Ma, J.-X. Zhao, Adsorption dynamics of binary mixture of Gemini surfactant and opposite-charged conventional surfactant in aqueous solution, *J. Colloid Interface Sci.* 297(2) (2006) 412–418.
20. Song Q., A. Couzis, P. Somasundaran, C. Maldarelli, A transport model for the adsorption of surfactant from micelle solutions onto a clean air/water interface in the limit of rapid aggregate disassembly relative to diffusion and supporting dynamic tension experiments, *Colloids Surfaces A* 282–283 (2006) 162–182.
21. Weiss M., R.C. Darton, T. Battal, C.D. Bain, Surfactant adsorption and Marangoni flow in liquid jets. 3. Modeling in the presence of micellar surfactant, *Ind. Eng. Chem. Res.* 45(7) (2006) 2235–2248.
22. Liu T., L. Montastruc, F. Gancel, L. Zhao, I. Nikov, Integrated process for production of surfactin. Part 1: Adsorption rate of pure surfactin onto activated carbon, *Biochemical Engineering J.* 35(3) (2007) 333–340.
23. Shrestha L.K., Y. Matsumoto, K. Ihara, K. Aramaki, Dynamic surface tension and surface dilatational elasticity properties of mixed surfactant/protein systems, *J. Oleo Sci.* 57(9) (2008) 485–494.
24. Tucker I., J. Penfold, R.K. Thomas, I. Grillo, J.G. Barker, D.F.R. Mildner, The surface and solution properties of dihexadecyl dimethylammonium bromide, *Langmuir* 24 (2008) 6509–6520.
25. Bhole N.S., F. Huang, C. Maldarelli, The formation of a micelle-free zone in the transport of surfactant from an aqueous micellar solution to an oil phase, *AIChE Annual Meeting, Conference Proceedings* (2009).
26. Colegate D., Structure-kinetics relationships in micellar solutions of nonionic surfactants, PhD Thesis, Durham University, 2009.
27. Tan H.W., Rheology na stability of olive oil cream emulsion stabilized by sucrose fatty acid esters nonionic surfactants, Dissertation, University of Malaya, 2009.
28. Bhole N.S., F. Huang, C. Maldarelli, Fluorescence visualization and modeling of a micelle-free zone formed at the interface between an oil and an aqueous micellar phase during interfacial surfactant transport, *Langmuir* 26(20) (2010) 15761–15778.
29. Montastruc L., T. Liu, I. Nikov, P. Floguet, S. Domenech, Integrated process for production of surfactin (III) modeling of adsorption column, *Chinese Journal of Chemical Engineering* 19(3) (2011) 357–364.
30. Song Q., M. Yuan, Visualization of an adsorption model for surfactant transport from micelle solutions to a clean air/water interface using fluorescence microscopy, *J. Colloid Interface Sci.* 357 (2011) 179–188.
31. Kalagirou A., M.G. Blith, The role of soluble surfactant in the linear stability of two-layer flow in a channel, *Journal of Fluid Mechanics* 873 (2019) 18–48.
32. Kalagirou A., M.G. Blyth, Nonlinear dynamics of two-layer channel flow with soluble surfactant below or above the critical; micelle concentration, *Journal of Fluid Mechanics* 900 (2020) A7.
33. Jadhav S.N., U. Ghosh, Effect of surfactants on the settling of a drop towards a wall, *Journal of Fluid Mechanics* 912 (2021) A4.
34. Simonen G., J. Kjolaas, P.R. Leinan, H. Schumann, Literature review on surface-active components in emulsions and foams: Theory and modelling efforts, *Geoenergy Science and Engineering* 230 (2023) 212516.
35. Dudec M., A.O.J. Olsen, G. Oye, The influence of divalent cations on the dynamic surface tension of sodium dodecylbenzenesulfonate solutions, *Colloids and Surfaces A* 675 (2023) 132007.

- 45 **P.A. Kralchevsky, K.D. Danov, I.B. Ivanov, Thin liquid film physics, in: R.K. Prud'homme (Ed.), Foams: Theory, Measurements and Applications, Marcel Dekker, New York, 1996, pp. 1–97. (брой: 57)**
1. Petsev D.N., J. Bibette, Stability of osmotically compressed emulsions in the presence of ionic surfactants, *Langmuir* 11(4) (1995) 1075–1077.
  2. Veleв O.D., G.N. Constantinides, D.G. Avraam, A.C. Payatakes, R.P. Borwankar, Investigations of thin liquid films of small diameters and high capillary pressures by a miniaturized cell, *J. Colloid Interface Sci.* 175(1) (1995) 68–76.
  3. Krichevsky O., J. Stavans, Confined fluid between two walls: the case of micelles inside a soap film, *Phys. Rev. E* 55(6) (1997) 7260–7266.
  4. Velikov K.P., O.D. Veleв, K.G. Marinova, G.N. Constantinides, Effect of the surfactant concentration on the kinetic stability of thin foam and emulsion films, *J. Chem. Soc., Faraday Trans.* 93(11) (1997) 2069–2075.
  5. Cristini V., J. Blawdziewicz, M. Loewenberg, Near-contact motion of surfactant-covered spherical drops, *J. Fluid Mech.* 366 (1998) 259–287.
  6. Hool K.O., R.C. Saunders, H.J. Ploehn, Measurement of thin liquid film drainage using a novel high-speed impedance analyzer, *Rev. Sci. Instruments* 69(9) (1998) 3232–3239.
  7. Marinova K.G., T.D. Gurkov, T.D. Dimitrova, R. Alargova, D. Smith, Role of oscillatory structural forces for interactions in thin emulsion films containing micelles, *Langmuir* 14(8) (1998) 2011–2019.
  8. Petsev D.N., in: B.P. Binks (Ed.), *Modern Aspects of Emulsion Science*, Royal Soc. Chem., 1998, Ch. 10.
  9. Tsujii K., *Surface Activity: Principles, Phenomena and Applications (Polymers, Interfaces and Biomaterials)*, Academic Press, London, 1998.
  10. Bingyi Q., *China Surfactants, Detergents Cosmetics* 2(3) (1999) 53–56.
  11. Blawdziewicz J., E. Wajnryb, M. Loewenberg, Hydrodynamic interactions and collision efficiencies of spherical drops covered with an incompressible surfactant film, *J. Fluid Mech.* 395 (1999) 29–59.
  12. Denkov N.D., Mechanisms of action of mixed solid-liquid antifoams. 2. Stability of oil bridges in foam films, *Langmuir* 15(24) (1999) 8530–8542.
  13. Dokic P.P., L.M. Dakovic, P.P. Radivojevic, V.J. Sovilj, I.B. Sefer, Dynamics of emulsion formation, *J. Dispersion Sci. Technology* 20(1–2) (1999) 215–134.
  14. Kornev K.G., A.V. Neimark, A.N. Rozhkov, Foam in porous media: thermodynamic and hydrodynamic peculiarities, *Adv. Colloid Interface Sci.* 82(1–3) (1999) 127–187.
  15. Shirshin K.V., O.A. Kazantsev, S.A. Kazakov, S.M. Danov, Synthesis of monomeric betaines from N-(dimethylaminoalkyl)methacrylamides, *Russian Journal of Applied Chemistry* 72(2) (1999) 278–281.
  16. Zapryanov Z., S. Tabakova, *Dynamics of Bubbles, Drops and Rigid Particles*, Kluwer Academic Publishers, Dordrecht, 1999.
  17. Fruhner H., K.D. Wantke, K. Lunkenheimer, Relationship between surface dilational properties and foam stability, *Colloids Surfaces A* 162(1–3) (2000) 193–202.
  18. Khristov K., S.D. Taylor, J. Czarnecki, J. Masliyah, Thin liquid film technique – application to water-oil-water bitumen emulsion films, *Colloids Surfaces A* 174(1–2) (2000) 183–196.
  19. Khristov Kh., D. Exerowa, M. Malysa, in: P.L.J. Zitha, J. Banhart, G.L.M.M. Verbist (Eds.), *Proceedings of the 3–rd Euroconference on Foams, Emulsions and their Applications (Eurofoam 2000)*, Verlag, Bremen, pp. 21–31.
  20. Nuñez G.A., G. Sanchez, X. Guitierrez, F. Silva, C. Dalas, H. Rivas, Rheological behavior of concentrated bitumen in water emulsions, *Langmuir* 16(16) (2000) 6497–6502.
  21. Uthomibhi J.O., A.H. Fawcett, in: P.L.J. Zitha, J. Banhart, G.L.M.M. Verbist (Eds.), *Proceedings of the 3–rd Euroconference on Foams, Emulsions and their Applications (Eurofoam 2000)*, Verlag, Bremen, pp. 247–254.
  22. Arnaudov L., N.D. Denkov, I. Surcheva, P. Durbut, G. Broze, A. Mehreteab, Effect of oily additives on foamability and foam stability. 1. Role of interfacial properties, *Langmuir* 17(22) (2001) 6999–7010.
  23. Dukhin S.S., O. Saether, J. Sjoblom, in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, 71–93.
  24. Gergely V., R.L. Jones, T.W. Clyne, The effect of capillarity-driven melt flow and size of particles in cell faces on metal foam structure evolution, *Transactions of JWRI* 30 (2001) 371–376.
  25. Gurkov T.D., J.T. Petkov, B. Campbell, R. Borwankar, in: E. Dickinson, R. Miller (Eds.), *Food Colloids. Fundamentals of Formulation*, Royal Soc. Chemistry, 2001, 181–190.
  26. Hadjiiski A., S. Tcholakova, N.D. Denkov, Effect of oily additives on foamability and foam stability. 2. Entry barriers, *Langmuir* 17(22) (2001) 7011–7021.
  27. Perrin P., F. Millet, B. Cahrleux, Emulsions stabilized by polyelectrolytes, in: T. Radeva (Ed.), *Physical Chemistry of Polyelectrolytes (Surfactant Science Series)*, Marcel Dekker, New York, 2001, p. 438.

28. Princen H.M., in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, 2001, 243–278.
29. Radeva T., *Physical Chemistry of Polyelectrolytes*, Marcel Dekker, New York, 2001; p. 438.
30. Zhang L.Y., M.P. Srinivasan, Hydrodynamics of subphase entrainment during Langmuir–Blodgett film deposition, *Colloids Surfaces A* 193(1–3) (2001) 15–33.
31. Gurkov T.D., E.S. Basheva, Hydrodynamic behavior and stability of approaching deformable drops, in: A.T. Hubbard (Ed.), *Encyclopedia of Surface and Colloid Science*, Marcel Dekker, New York, 2002.
32. Marinova K.G., N.D. Denkov, P. Branlard, Y. Giraud, M. Deruelle, Optimal hydrophobicity of silica in mixed oil–silica antifoams, *Langmuir* 18(9) (2002) 3399–3403.
33. Taylor S.D., J. Czarnecki, J. Masliyah, Disjoining pressure isotherms of water–in–bitumen emulsion gels, *J. Colloid Interface Sci.* 252(1) (2002) 149–160.
34. Angarska J.K., E.D. Manev, Effect of tetrapentyl ammonium bromide adsorption on the electrostatic interactions in aqueous octaethyleneglycol decylether foam films, *Colloids Surfaces A* 223(1–3) (2003) 73–82.
35. Moosai R., R.A. Dawe, Gas attachment of oil droplets for gas flotation for oily wastewater cleanup, *Separation and Purification Technol.* 33(3) (2003) 303–314.
36. Rivas H., X. Gutierrez, F. Silva, M. Chirinos, Sobre Emulsiones de bitumen en agua, *Acta Cientifica Venezolana* 54(3) (2003) 216–234.
37. Postema M., A. van Wamel, C.T. Lancée, Ultrasound–induced encapsulated microbubble phenomena, *Ultrasound in Medicine Biology* 30(6) (2004) 827–840.
38. Postema M., P. Marmottant, C.T. Lancee, S. Hilgenfeldt, N.D. Jong, Ultrasound–induced microbubble coalescence, *Ultrasound Medicine Biology* 30 (10) (2004) 1337–1344.
39. Postema M., *Medical bubbles*, PhD Thesis, University of Twente, 2004.
40. Saeter O., J. Sjoblom, S.S. Dukhin, Droplet flocculation and coalescence in dilute oil-in-water emulsions, in: *Food Emulsions*, CRC Press, 2004, Ch. 5.
41. Spyridopoulos M.T., S.J. R. Simons, Effect of natural organic matter on the stability of a liquid film between two colliding bubbles, *Colloids Surfaces A* 235 (2004) 25–34.
42. Tamura T., Y. Kaneko, Foam film stability in aqueous systems, in: S. Hartland (Ed.), *Surface and Interfacial Tension: Measurement, Theory, and Applications*, Marcel Dekker, New York, 2004, p. 144.
43. Blawdziewicz J., E. Wajnryb, Phase equilibria in stratified thin liquid films stabilized by colloidal particles, *Europhys. Lett.* 71(2) (2005) 269–275.
44. Vlahovska P.M., M. Loewenberg, J. Blawdziewicz, Deformation of a surfactant–covered drop in a linear flow, *Phys. Fluids* 17(10) (2005) 103103.
45. Wendt T., Herstellung flüssigkeitshaltiger pulverformiger Komposite durch ein Hochdrucksprühverfahren für Anwendungen im Lebensmittelbereich, Cullivier Verlag, Göttingen, 2007.
46. Blawdziewicz J., E. Wajnryb, Equilibrium and nonequilibrium thermodynamics of particle–stabilized thin liquid films, *J. Chem. Phys.* 129(19) (2008) 194509.
47. Dukhin S.S., V.I. Kovalchuk, E.V. Aksenenko, R. Miller, Surfactant accumulation within the top foam layer due to rupture of external foam films, *Adv. Colloid Interface Sci.* 137 (2008) 45–56.
48. Borghei S.M., The effect of different parameters on the efficiency and design of IFG systems at high TDS and temperature, PhD Thesis, Environmental Engineering, Islamic Azad University, 2009.
49. Nonnekes L.E., S.J. Cox, W.R. Rossen, Effect of gas diffusion on mobility of foam for EOR, *Proceedings – SPE Annual Technical Conference and Exhibition* 5 (2012) 3499–3509.
50. Nonnekes L.E., S.J. Cox, W.R. Rossen, A 2D model for the effect of gas diffusion on mobility of foam for EOR, *ECMOR 2012 – 13<sup>th</sup> European Conference on the Mathematics of Oil Recovery*, Art. 103266.
51. Angarska J., D. Ivanova, A. Gerasimova, K. Balashev, competitive adsorption of bovine serum albumin and n-dodecyl-maltoside in foam films, *Colloids Surfaces A* 460 (2014) 286–298.
52. Nonnekes L.E., S.J. Cox, W.R. Rossen, Effect of gas diffusion on mobility of foams for enhanced oil recovery, *Trans. Porous Medium* 106 (2015) 669–689.
53. Solbakken J.S., Experimental study of N<sub>2</sub> and CO<sub>2</sub> foam properties in relation to enhanced oil recovery applications, PhD Thesis, University of Bergen, Norway, 2015.
54. Tufaile A., A.P.B Tufaile, Parhelic-like circle form light scattering in Plateau borders, *Physics Letters A* 379(6) (2015) 529–534.
55. Chen Y., A.S. Elhag, A.J. Worthen, P.P. Reddy, A.M. Ou, G.J. Hirasaki, Q.P. Nguyen, S.L. Biswal, K.P. Johnston, High temperature CO<sub>2</sub>-in-water foams stabilized with cationic quaternary ammonium surfactants, *Journal of Chemical and Engineering Data* 61(8) (2016) 2761–2770.
56. Vishal P., P. Ghosh, The effect of silica nanoparticles on the stability of aqueous foams, *Journal of Dispersion Science and Technology* 40 (2019) 206–218.



57. Samoylova S.S., V.E. Tarasov, complex application of a new technique for determining the volume weight of foam, *Международний Научно-Исследовательский Журнал* 7 (2022) 121.
- 44 **J.T. Petkov, K.D. Danov, N.D. Denkov, R. Aust, F. Durst, Precise method for measuring the shear surface viscosity of surfactant monolayers, *Langmuir* 12(11) (1996) 2650–2653. (брой: 78)**
  1. Dietrich C., M. Angelova, B. Pouligny, Adhesion of latex spheres to giant phospholipid vesicles: statics and dynamics, *J. Phys. II* 7(11) (1997) 1651–1682.
  2. Kurnaz M.L., D.K. Schwartz, Channel flow in a Langmuir monolayer: unusual velocity profiles in a liquid–crystalline mesophase, *Phys. Rev. E* 56(3) (1997) 3378–3384.
  3. Angarska J.K., K.D. Tachev, P.A. Kralchevsky, A. Mehreteab, G. Broze, Effects of counterions and co-ions on the drainage and stability of liquid films and foams, *J. Colloid Interfaces Sci.* 200(1) (1998) 31–45.
  4. Langevin D., Dynamics of surfactant layers, *Curr. Opin. Colloid Interface Sci.* 3(6) (1998) 600–607.
  5. Barentin C., C. Ybert, J.M. di Meglio, J.–F. Joanny, Surface shear viscosity of Gibbs and Langmuir monolayers, *J. Fluid Mech.* 397 (1999) 331–349.
  6. Dimova R., Hydrodynamic Properties of Model Membranes Studied by Means of Optical Manipulation of Particles, PhD Thesis, Bordeaux Universite I, Bordeaux, France, 1999.
  7. Fisher T.M., Der Langmuir–Monolayer, ein quasi zweidimensionales System im thermodynamischen Gleichgewicht und Nichtgleichgewicht, Habilitationsschrift, Universitaet Leipzig, 1999.
  8. Barentin C., P. Muller, C. Ybert, J.–F. Joanny, J.–M. di Meglio, Shear viscosity of polymer and Surfactant monolayers, *Eur. Phys. J E* 2(2) (2000) 153–159.
  9. Bouchama F., J.–M. di Meglio, Rheological study of freely suspended soap films, *Colloid Polym. Sci.* 278(3) (2000) 195–201.
  10. Kralchevsky P.A., K. Nagayama, Capillary interactions between particles bound to interfaces, liquid films and biomembranes, *Adv. Colloid Interface Sci.* 85(2) (2000) 145–192.
  11. Lyklema J. (Ed.), *Fundamentals of Interface and Colloid Science, Vol. III: Liquid–Fluid Interfaces*, 2000, p. 183.
  12. Tsukahara S., Y. Yamada, H. Watarai, Effect of surfactants on in–plane and out–of–plane rotational dynamics of octadecylrhodamine B at toluene–water interface, *Langmuir* 16(17) (2000) 6787–6794.
  13. Kralchevsky P.A., K. Nagayama, Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays, Elsevier, Amsterdam, 2001, Ch. 8.
  14. Koehler S.A., S. Hilgenfeldt, E.R. Weeks, H.A. Stone, Drainage of single Plateau borders: direct observation of rigid and mobile interfaces, *Phys. Rev. E* 66(4) (2002) 040601.
  15. Bantchev G.B., D.K. Schwartz, Surface shear rheology of  $\beta$ –casein layers in the air/solution interface: formation of a two–dimensional physical gel, *Langmuir* 19(7) (2003) 2673–2682.
  16. Langevin D., Electric–field–induced capillary attraction between like–charged particles at liquid interfaces, *Chem. Phys. Chem.* 4(10) (2003) 1057–1058.
  17. Watarai H., S. Tsukahara, H. Nagatani, A. Ohashi, Interfacial nanochemistry in liquid–liquid extraction systems, *Chem Soc. Jpn* 76(8) (2003) 1471–1492.
  18. Zhang X., M.T. Li, Measurements of interfacial shear viscosity, *Jiangsu Chemical Industry* 31(6) (2003) 21.
  19. Koehler S.A., S. Hilgenfeldt, E.R. Weeks, H.A. Stone, Foam drainage on the microscale – II. Imaging flow through single Plateau borders, *J. Colloid Interface Sci.* 276(2) (2004) 439–449.
  20. Miller R., V.B. Fainerman, Interfacial rheology of adsorbed layers, in: D.N. Petsev (Ed.), *Emulsions: Structure, Stability and Interactions*, Elsevier, London, 2004, p. 61.
  21. Monteux C., Adsorption et rheologie interfaciale de complexes polyelectrolytes/tensioactifs, PhD Thesis, Laboratoire de Physique Statistique, Department de Physique de l’Ecole Normale Supérieure, Paris, 2004.
  22. Monteux C., G.G. Fuller, V. Bergeron, Shear and dilatational surface rheology of oppositely charged polyelectrolyte/surfactant microgels adsorbed at the air–water interface. Influence on foam stability, *J. Phys. Chem B* 108(42) (2004) 16473–16482.
  23. Perez–Orozco J.P., C.I. Beristain, G. Espinosa–Paredes, C. Lobato–Calleros, E.J. Vernon–Cartes, Interfacial shear rheology of interacting carbohydrate polyelectrolytes at the water–oil interface using an adapted conventional rheometer, *Carbohydrate Polym.* 57(1) (2004) 45–54.
  24. Saint–James A., Y. Zhang, D. Langevin, Quantitative description of foam drainage: transitions with surface mobility, *Europ. Phys. J E* 15(1) (2004) 53–60.
  25. Pitois O., C. Fritz, M. Vignes–Adler, Hydrodynamic resistance of a single foam channel, *Colloids Surfaces A* 261(1–3) (2005) 109–114.

26. Pitois O., C. Fritz, M. Vignes-Adler, Liquid drainage through aqueous foam: study of the flow on the bubble scale, *J. Colloid Interface Sci.* 282(2) (2005) 458–465.
27. Stevenson P., Remarks on the shear viscosity of surfaces stabilised with soluble surfactants, *J. Colloid Interface Sci.* 290(2) (2005) 603–606.
28. Watarai H., S. Tsukahara, Single molecule diffusion and metal complex formation at liquid/liquid interfaces, in: *Interfacial Nanochemistry*, Springer, 2005, Ch. 10, 205–231.
29. Anguelouch A., R.L. Leheny, D.H. Reich, Application of ferromagnetic nanowires to interfacial microrheology, *Appl. Phys. Lett.* 89(11) (2006) 111914
30. Benevitti D., M.N. Belgacem, B. Carre, Influence of surfactant structure on bubble size and foaming in bubble columns: focus on flotation de-inking, *Nordic Pulp and Paper Research Journal* 21(5) (2006) 702–709.
31. Fritz C., *Transport de Liquide et de Particules dans Un Bord de Plateau*, PhD Thesis (Directeur de these Michèle Adler), Université de Marne–La–Vallée, Paris, France, 2006.
32. Marze S., *Couplages expérimentaux des propriétés interfaciales et volumiques des mousses aqueuses: les cas de l'imbibition en micropesanteur et de la rhéologie*, PhD Thesis, Université Paris Sud – Paris XI, 2006.
33. Orozco J.P.P., *Estudio de la asorcion competitiva entre polielectrolitos y tensoactivos*, PhD Thesis, Universidad Autonoma Metropolitana, 2006.
34. Saint-Jalmes A., Physical chemistry in foam drainage and coarsening, *Soft Matter* 2(10) (2006) 836–849.
35. Nijenhuis K., G. McKinley, S. Spiegelberg, H. Barnes, N. Aksel, L. Heymann, J. Odell, Non-Newtonian Flows, in: *Handbook of Experimental Fluid Mechanics*, Springer, 2007, 619–743.
36. Bano M., M. Pudlak, Z. Tomori, E. Demjn, I. Hrmo, H. Bothova, A novel surface shear viscometer, *Review of Scientific Instruments* 79(4) (2008) 045102.
37. Kragel J., S.R. Derkach, R. Miller, Interfacial shear rheology of protein–surfactant layers, *Advances in Colloid and Interface Science* 144(1–2) (2008) 38–53.
38. Derkach S.R., J. Kragel, R. Miller, Methods of Measuring Rheological Properties of Interfacial Layers (Experimental Methods of 2D Rheology), *Colloid Journal* 71(1) (2009) 1–17.
39. *Interfacial Rheology*, R. Miller and L. Liggiery Eds., 2009, Ch. 10.
40. Kotsmar Cs., V. Pradines, V.S. Alahverdijeva, E.V. Eksenenko, V.B. Fainerman, V.I. Kovalchuk, J. Kragel, R. Miller, Thermodynamics, adsorption kinetics and rheology of mixed protein–surfactant interfacial layers, *Advances in Colloid and Interface Science* 150(1) (2009) 41–54.
41. Ally J., A. Amirfazli, Magnetophoretic measurement of the drag force on partially immersed microparticles at air–liquid interfaces, *Colloids ad Surfaces A: Physicochemical and Enginnering Aspects* 360(1–3) (2010) 120–128.
42. Ally J.M., *Magnetically targeted deposition and retention of particles in the airways for drug delivery*, PhD Thesis, Edmonton, Alberta, 2010.
43. Lewadnowski E.P., M. Cavallaro, L. Botto, J.C. Bernate, V. Garbin, K.J. Stebe, Orientation and Self-Assembly of Cylindrical Particles by Anisotropic Capillary Interactions, *Langmuir* 26(19) (2010) 15142–15154.
44. Diaz C., *Adherencia y colonización de Pseudomonas fluorescens sobre sustratos sólidos: influencia de la topografía y composición química de la superficie*, Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas (INIFTA), Argentina, 2011.
45. Pozrikidis C., A floating prolate spheroid, *J. Colloid Interface Science* 364(1) (2011) 248–256.
46. Sheid B., S. Dorbolo, Antibubble dynamcisL slipping or viscous interfaces? *AFM, Maison de la Mécanique*, 39/41, 2011.
47. Mayer H.C., Krechetnikov R., Landau-Levich flow visualization: revealing the flow topology responsible for the film thickening phenomena, *Physics of Fluids* 24(5) (2012) Art. 052103.
48. Nonnekes L.E., S.J. Cox, W.R. Rossen, A 2D model for the effect of gas diffusion on mobility of foam for EOR, 13<sup>th</sup> European Conference on the Mathematics of oil Recovery, 2012.
49. Scheid B., S. Dorbolo, L.R. Arriaga, E. Rio, Antibubble dynamics: The drainage of a air film with viscous interfaces, *Physical Review Letters* 109 (2012) 264502.
50. Adami N., *Surface tension and buoyancy in vertical soap films*, PhD Thesis, Faculty of Sciences, Physics Department, University of Liege, 2013.
51. Mezzenga R., P. Fischer, The self-assembly, aggregation, and phase transitions of food protein systems in one, two, and three dimensions, *Reports on Progress in Physics* 76(4) (2013) 046601.
52. Langevin D., Surface shear rheology of monolayers at the surface of water, *Adv. Colloid Interface Sci.* 207(1) (2014) 121–130.
53. Leung A.H.M., E.L. Prime, D.N.H. Tran, Q. Fu, A.J. Chistofferson, G. Yiapanis, I. Yarovsky, G.G. Quiao, D.H. Solomon, Dynamic performance of duolayers at the air/water interfaces: 1. Experimental analysis, *The Journal of Physical Chemistry B* 118(37) (2014) 10919–10926.

54. Wilke N., Lipid monolayers at the air-water interface. A tool for understanding electrostatic interactions and rheology in biomembranes, *Advances in Planar Lipid Bilayers and Liposomes* 20 (2014) 51–81.
  55. Zell Z.A., A. Nowbahar, V. Mansard, L.G. Leal, S.S. Deshmukh, J.M. Mecca, C.J. Tucker, T.M. Squires, Surface shear inviscidity of soluble surfactants, *Proceedings of the National Academy of Sciences of USA* 111(10) (2014) 3677–3682.
  56. Zhu R., Y. Lai, V. Nguyen, R. Yang, Scalable alignment and transfer of nanowires in a spinning Langmuir film, *Nanoscale* 6(20) (2014) 11976–11980.
  57. Bournival G., S. Ata, E.J. Wanless, The role of particles in multiphase processes, *Advances in Colloid and Interface Science* 225 (2015) 114–133.
  58. Gauchet S., M. Durand, D. Langevin, Foam drainage. Possible influence of a non-newtonian surface shear viscosity, *Journal of Colloid and Interface Science* 449 (2015) 373–376.
  59. Nasiri M., R. Scrivasar, T. Saghaei, A. Ramos, Simulation of liquid film motor: a charge induction mechanism, *Microfluidics and Nanofluidics* 19(1) (2015) 133–139.
  60. Schenck D.M., Submersion and lateral transport of microparticles at a lung surfactant interface on model mucus hydrogel, PhD Thesis, University of Iowa, 2015.
  61. Xue Z., Stability and rheology of high internal phase of CO<sub>2</sub>-in-water foams and stability and transport of polymer grafted nanoparticles, PhD Thesis, University of Texas at Austin, 2015.
  62. Zhu R., Piezoelectric nanostructures – synthesis, alignment, and electrical response to strain, PhD Thesis, University of Minnesota, 2015.
  63. Ponce-Torres A., M.A. Herrada, J.M. Montanero, J.M. Vega, Linear and nonlinear dynamics of an insoluble surfactant-laden liquid bridge, *Physics of Fluids* 28 (2016) 112103.
  64. Timounay Y., Rhéologie d'interfaces liquide/air chargées de grains Vers la consolidation d'un milieu aéré, PhD Thesis, Université Paris-Est, 2016.
  65. Ulaganathan V., Molecular fundamentals of foam fractionation, PhD Thesis, Potsdam University, 2016.
  66. Vitasari D., P. Grassia, P. Martin, Surfactant transport onto a foam film in the presence of surface viscous stress, *Applied Mathematical Modeling* 40(3) (2016) 1941–1958.
  67. Xue Z., A. Worthen, A. Quajar, I. Robert, S.L. Bryant, C. Huh, M. Prodanovic, K.P. Johnston, Viscosity and stability of ultra-high internal phase CO<sub>2</sub>-in-water foams stabilized with surfactants and nanoparticles with or without polyelectrolytes, *Journal of Colloid and Interface Science* 461 (2016) 383–395.
  68. Zell Z.A., V. Mansard, J. Wright, K.H. Kim, S.Q. Choi, T.M. Squires, Linear and nonlinear microrheometry of small samples and interfaces using microfabricated probes, *Journal of Rheology* 60(1) (2016) 141–159.
  69. Maali A., R. Boissard, H. Chraïbi, Z. Zhang, H. Kellay, A. Wurger, Viscoelastic drag forces and crossover from no-slip to slip boundary conditions for flow near air-water interfaces, *Physical Review Letters* 118 (2017) 084501.
  70. Timounai Y., F. Rouyer, Viscosity of particulate soap films: Approaching a jamming of 2D capillary suspensions, *Soft Matter* 13(18) (2017) 3449–3456.
  71. Vidal A., L. Botto, Slip flow past a gas-liquid interface with embedded solid particles, *Journal of Fluid Mechanics* 813 (2017) 152–174.
  72. Koursari N., O. Arjmandi-Tash, P. Johnson, A. Trybala, V.M. Starov, Foam drainage placed on a thin porous layer, *Soft Matter* 15(26) (2019) 5331–5344.
  73. Li J., Y. Liu, M. Wang, T. Jiang, J. Gou, H. Ding, P.S. Kollipara, Y. Ionoue, D. Fan, B.A. Korgel, Y. Zheng, Optical nanomanipulation on solid substrates via optothermally-gated photon nudging, *Nature Communications* 10 (2019) 5672.
  74. Loudet J.-C., M. Qiu, J. Hemauer, J.J. Feng, Drag force on a particle straddling a fluid interface: influence of interfacial deformation, *The European Physical Journal E* 43 (2020) 13.
  75. Zhang Z., Nano-rheology at soft interfaces probed by atomic force microscope, PhD Thesis, Bordeaux University, 2020.
  76. Zhang Z., Y. Wang, Y. Amarouchene, R. Boissard, H. Kellay, A. Wurger, A. Maali, Near-field probe of thermal fluctuation of a hemispherical bubble surface, *Physical Review Letters* 126 (2021) 174503.
  77. Firouzi M., V.I. Kovalchuk, G. Loglio, R. Miller, Salt effect on the dilatational viscoelasticity of surfactant adsorption layers, *Current Opinion in Colloid and Interface Science* 57 (2022) 101538.
  78. Khan T.A., D.C. Gomes, C. Grapentin, M. Heitz, C. Mueller, Mechanisms of stabilization of proteins by surfactants, *Surfactants in Biopharmaceutical Development* (2023) 59–102.
- 43 N.D. Denkov, D.N. Petsev, K.D. Danov, Flocculation of deformable emulsion droplets. I. Droplet shape and line tension effects, *J. Colloid Interface Sci.* 176 (1995) 189–200. (брой: 49)**
1. Aveyard R., J.H. Clint, Foam and thin film breakdown processes, *Curr. Opin. Colloid Interface Sci.* 1(6) (1996) 764–770.

2. Binks B.P., Emulsions, in: Annual Reports, The Royal Society of Chemistry, Section C, 92 (1996) 97–133.
3. Drelich J., The significance and magnitude of the line tension in three-phase (solid–liquid–fluid) systems, *Colloids Surfaces A* 116(1–2) (1996) 43–54.
4. Gurkov T.D., P.A. Kralchevsky, Mechanics and thermodynamics of interfaces, thin liquid films and membranes, *J. Dispersion Sci. Technology* 18(6–7) (1997) 609–623.
5. Ivanov I.B., P.A. Kralchevsky, Stability of emulsions under equilibrium and dynamic conditions, *Colloids Surfaces A* 128(1–3) (1997) 155–175.
6. Yin H.B., H. Shibata, T. Emi, M. Suzuki, Characteristics of agglomeration of various inclusion particles on molten steel surface, *ISIJ International* 37(10) (1997) 946–955.
7. Binks B.P., in: B.P. Binks (Ed.), *Modern Aspects of Emulsion Science*, Royal Soc. Chem., 1998, Ch. 1.
8. Miklavcic S.J., Perturbation analysis of droplet deformation under electric double layer forces, *Phys. Rev. E* 57(1) (1998) 561–568.
9. Aveyard R., B.P. Binks, J. Esquena, P.D.I. Fletcher, R. Buscall, S. Davies, Flocculation of weakly charged oil–water emulsions, *Langmuir* 15(4) (1999) 970–980.
10. Saether O., J. Sjoblom, S.V. Verbich, et al., A videomicroscopic investigation of coupled reversible flocculation and coalescence at singlet–doublet equilibrium in an O/W emulsion of low density contrast, *J. Dispersion Sci. Technology* 20(1–2) (1999) 295–314.
11. Urbina–Villalba G., M. Garcia–Sucre, Brownian dynamics simulation of emulsion stability, *Langmuir* 16(21) (2000) 7975–7985.
12. Dukhin S.S., J. Sjoblom, D.T. Wasan, O. Saether, Coalescence coupled with either coagulation or flocculation in dilute emulsions, *Colloids Surfaces A* 180(3) (2001) 223–234.
13. Dukhin S.S., O. Saether, J. Sjoebloom, in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, 71–93.
14. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 2.
15. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 3.
16. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 5.
17. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 6.
18. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
19. Aveyard R., B.P. Binks, J. Esquena, P.D.I. Fletcher, P. Bault, P. Villa, Flocculation transitions of weakly charged oil–in–water emulsions stabilized by different surfactants, *Langmuir* 18(9) (2002) 3487–3494.
20. Kang K.H., I.S. Kang, C.M. Lee, Electrostatic contribution to line tension in a wedge–shaped contact region, *Langmuir* 19(22) (2003) 9334–9342.
21. Lahnsteiner F., P. Patarnello, The shape of the lipid vesicle is a potential marker for egg quality determination in the gilthead seabream, *Sparus aurata*, and in the sharpsnout seabream, *Diplodus puntazzo*, *Aquaculture* 246(1–4) (2005) 423–435.
22. Takata Y., H. Matsubara, Y. Kikuchi, N. Ikeda, T. Matsuda, T. Takiue, M. Aratono, Line tension and wetting behaviour of an air/hexadecane/aqueous surfactant system, *Langmuir* 21(19) (2005) 8594–8596.
23. Avila C., Interfacial phenomena in oil–water dispersions, PhD Thesis, Tulusa University, 2006.
24. Filip–Boar D., AFM–CSLM microrheology of aggregated emulsions, PhD Thesis, University of Twente, 2006.
25. Garrett P.R., S.P. Wicks, E. Fowles, The effect of high volume fractions of latex particles on foaming and antifoam action in surfactant solutions, *Colloids Surfaces A* 282–283 (2006) 307–328.
26. Kottke P.A., A. Saillard, A.G. Fedorov, Drop growth and transition to coalescence in confined geometries, *Langmuir* 22(13) (2006) 5630–5635.
27. Lozsán A., M. Garcia–Sucre, G. Urbina–Villalba, Theoretical estimation of stability ratios for hexadecane–in–water (H/W) emulsions stabilized with nonylphenol ethoxylated surfactants, *J. Colloid Interface Sci.* 299(1) (2006) 366–377.



28. Urbina-Villalba G., A. Lozsan, J. Toro-Mendoza, K. Rahn, M. Garcia-Sucre, Aggregation dynamics in systems of coalescing non-deformable droplets, *J. Molecular Structure – Theochem* 769(1–3) (2006) 171–181.
  29. Wendt T., Herstellung flüssigkeitshaltiger pulverförmiger Komposite, PhD Thesis, Cuvillier Verlag, 2007.
  30. Sanfeld A., A. Steinchen, Emulsion stability, from dilute to dense emulsion – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
  31. Foudazi R., Models for structure rheology of highly concentrated emulsions, PhD Thesis, CPUT, 2009.
  32. Nespolo S.A., G. Stevens, Interfacial forces: Colloidal particle - liquid, in: *Encyclopedia in Nanoscience and Nanotechnology*, 2009.
  33. Urbina-Villalba G., An algorithm for emulsion stability simulations: account of flocculation, coalescence, surfactant adsorption and the process of Ostwald ripening, *Int. J. Mol. Sci.* 10 (2009) 761–804.
  34. Foudazi R., I. Masalova, A. Ya. Malkin, The role of interdroplet interaction in the physics of highly concentrated emulsions, *Colloid Journal* 72(1) (2010) 74–92.
  35. Toro-Mendoza J., A. Lozsan, M. Garcia-Sucre, S.A.J. Castellanos, Urbina-Villalba G., Influence of droplet deformability on the coalescence rate of emulsions, *Physical Review E* 81(1) (2010) 011405.
  36. Long T., C.A. Ramsburg, Encapsulation of nZVI particles using a Gum Arabic stabilized oil-in-water emulsion, *Journal of Hazardous Materials* 189(3) (2011) 801–808.
  37. Osorio P., G. Urbina-Villalba, Influence of drop deformability on the stability of devane-in-water emulsions, *J. Surfactants and Detergents* 14(2) (2011) 281–300.
  38. Matsubara H., M. Aratono, Surface forces in wetting phenomena in fluid systems, *Colloid Stability: The Role of Surface Forces, Part II*, 2 (2011) 165–182.
  39. Ban T., T. Yamagami, Y. Furumichi, Transient pore dynamics in pH-responsive liquid membrane, *Langmuir* 28(29) (2012) 10682–10687.
  40. Long T., C.A. Ramsburg, Gum arabic encapsulation of reactive particles for enhanced delivery during subsurface restoration, Patent Cooperation Treaty Application, June 2012.
  41. Matsubara H., M. Aratono, Wetting transition and line tension of oil on water, *Understanding Complex Systems* (2013) 259–274.
  42. Dizaj S.M., S. Yaqoubi, K. Adibkia, F. Lotfipour, Nanoemulsion-based delivery systems: preparation and application in the food industry, in: *Emulsions* (2016) 293–328.
  43. Sun W., Q. Ren, Z. Wang, F. Yang, Coexistence and sudden entrapment between two dissimilar, miscible oil lenses, *Langmuir* 35 (2019) 911–920.
  44. Narayan S., M. Iaroslav, D.B. Moravec, B.G. Hauser, A.J. Dallas, C.S. Dutcher, Insights into the microscale coalescence behavior of surfactant-stabilized droplets using a microfluidic hydrodynamic trap, *Langmuir* 36 (2020) 9827–9842.
  45. Angardi V., A. Ettehadi, O. Yucel, Critical review of emulsion stability and characterization techniques in oil processing, *Journal of Energy Resources Technology* 144 (2022) 40801.
  46. Morgan J., S. Cox, A numerical model for coarsening in wet foams with a realistic bubble-scale structure, *EUFOAM* 2022.
  47. Matsubara H., M. Aratono, Surface forces in wetting phenomena in fluid systems, *Colloids and Interface Science Series* 6 (2014) 165–182.
  48. Rajput H.S., Formation of nanoemulsions, *International Journal of Engineering, Management and Humanities* 4 (2023) 233–241.
  49. Kasai M.R., Nanoemulsions in comparison with conventional emulsions for biomedical applications: An overview, *Industrial Application of Nanoemulsions* (2024) 77–106.
- 42 K.D. Danov, R. Aust, F. Durst, U. Lange, Slow motions of a solid spherical particle close to a viscous interface, *Int. J. Multiphase Flow* 21(6) (1995) 1169–1189. (брой: 16)**
1. Dimova R., Hydrodynamic Properties of Model Membranes Studied by Means of Optical Manipulation of Particles, PhD Thesis, Bordeaux Universite I, Bordeaux, France, 1999.
  2. Zapryanov Z., S. Tabakova, Dynamics of Bubbles, Drops and Rigid Particles, Kluwer Acad. Publ., 1999.
  3. Timberlake B.D., Free-Surface Film Flow of a Suspension and a Related Concentration Instability, School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, 2004.
  4. Fritz C., Transport de Liquide et de Particules dans Un Bord de Plateau, PhD Thesis (Directeur de these Michèle Adler), Université de Marne-La-Vallée, Paris, France, 2006.
  5. Lightfoot M.D.A., A fundamental classification of atomization processes, Airforce Researc Laboratory, Edward, CA, 2008, PA 08246A.
  6. Lightfoot M.D.A., Fundamental classification of atomization processes, *Atomization and Sprays* 19(11) (2009) 1065–1104.

7. Pitois O., C. Fritz, L. Pasol, M. Vignes-Adler, Sedimentation of a sphere in a fluid channel, *Physics of Fluids* 21(10) (2009) 103304.
  8. Rouyer F., Quelques études de la physique des écoulements d'une mousse et dans une mousse, PhD Thesis, Université Paris-Est, 2011.
  9. Tamura J., M. Hasegawa, K. Goto, K. Mochiji, K. Mortani, N. Inui, Weighing a single Brownian particle in a droplet, *Journal of the Physical Society of Japan* 84(8) (2015) 084001.
  10. Daddi-Mousa-Ider A., M. Lisicki, S. Gekle, A.M. Menzel, H. Lowen, Hydrodynamic coupling and rotational mobilities near planar elastic membranes, *Journal of Chemical Physics* 149(1) (2018) 014901.
  11. Daddi-Mousa-Ider A., S. Gekle, Brownian motion near an elastic cell membrane: A theoretical study, *European Physical Journal E* 41(2) (2018) 19.
  12. Raturi S., S. Datta, B.V.R. Kumar, Slow viscous flow past cylindrical particles with thin liquid layer: cell model, *European Journal of Mechanics B* 71 (2018) 151–159.
  13. Sharma V., Dynamics of Janus colloids interacting with giant lipid vesicle, PhD Thesis, Strasbourg University, 2021.
  14. Gohari S., M.R. Yaftian, M.R. Soviza, M. Tokur, H. Shayani-Jam, H.R. Sharafi, A parametric study on encapsulation of elemental sulfur inside CNTs by sonically assisted capillary method: Cathodic material for rechargeable Li–S batteries, *Microporous and Mesoporous Materials* 340 (2022) 112033.
  15. Raturi S., B.V.R. Kumar, The effect of surfactant on the drag and wall correction factor of a drop in a bounded medium, *Zeitschrift für Naturforschung A* 77 (2022) 339–352.
  16. Gohari S., M.R. Yaftian, M. Tokur, A. Kizilaslan, H. Shayani-Jam, H. Akbulut, M.R. Sovizi, Parametric optimization of sulfur@graphene composites for aqueous and solid-state rechargeable lithium-sulfur batteries, *Diamond and Related Materials* 139 (2023) 110267.
- 41 **K. Danov, R. Aust, F. Durst, U. Lange, Influence of the surface viscosity on the hydrodynamic resistance and surface diffusivity of a large Brownian particle, *J. Colloid Interface Sci.* 175 (1995) 36–45. (брой: 122)**
1. Hidalgo-Alvarez R., A. Martin, A. Fernandez, F. Martinez, F.J. de las Nieves, Electrokinetic properties, colloidal stability and aggregation kinetics of polymer colloids, *Adv. Colloid Interface Sci.* 37 (1996) 1–118.
  2. Denkov N.D., P.A. Kralchevsky, I.B. Ivanov, Lateral capillary forces and two-dimensional arrays of colloid particles and protein molecules, *J. Dispersion Sci. Technology* 18(6–7) (1997) 577–591.
  3. Barentin C., C. Ybert, J.M. de Gennes, J.F. Joanny, Surface shear viscosity of Gibbs and Langmuir monolayers, *J. Fluid Mech.* 397 (1999) 331–349.
  4. Dimova R., C. Dietrich, B. Pouligny, Motion of particles attached to giant vesicle: falling ball viscosimetry and elasticity measurements on lipid membranes, in: P. Walde, P. Luisi (Eds.), *Giant Vesicles*, John Wiley & Sons, New York, 1999, p. 221.
  5. Dimova R., Hydrodynamic Properties of Model Membranes Studied by Means of Optical Manipulation of Particles, PhD Thesis, Bordeaux Université I, Bordeaux, France, 1999.
  6. Maenosono S., C.D. Dushkin, Y. Yamaguchi, Direct measurement of the viscous force between two spherical particles trapped in a thin wetting film, *Colloid Polym. Sci.* 277(10) (1999) 993–996.
  7. Barentin C., P. Muller, C. Ybert, Shear viscosity of polymer and surfactant monolayers, *Eur. Phys. J. E* 2(2) (2000) 153–159.
  8. Dimova R., B. Pouligny, C. Dietrich, C., Pretransitional effects in dimyristoylphosphatidylcholine vesicle membranes: optical dynamometry study, *Biophys. J.* 79(1) (2000) 340–356.
  9. Kralchevsky P.A., K. Nagayama, Capillary interactions between particles bound to interfaces, liquid films and biomembranes, *Adv. Colloid Interface Sci.* 85(2–3) (2000) 145–192.
  10. Wurlitzer S., P. Steffen, T.M. Fischer, Line tension of Langmuir monolayer boundaries determined with optical tweezers, *J. Chem. Phys.* 112(13) (2000) 5915–5918.
  11. Kralchevsky P.A., K. Nagayama, Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two-Dimensional Arrays, Elsevier, Amsterdam, 2001, Ch. 8.
  12. Stoyanov S.D., N.D. Denkov, Role of surface diffusion for the drainage and hydrodynamic stability of thin liquid films, *Langmuir* 17(4) (2001) 1150–1156.
  13. Petkov J., N.D. Denkov, Dynamics of particles on interfaces and thin liquid films, In: *Encyclopedia of Surface and Colloid Science*, A. Hubbard, Ed.; Marcel Dekker, New York, 2001.
  14. Aveyard R., B.P. Binks, H.J. Clint, P.D.I. Fletcher, T.S. Horozov, B. Neumann, V.N. Paunov, J. Annesley, S.W. Botchway, D. Nees, A.W. Parker, A.D. Ward, A.N. Burgess, Measurement of long-range repulsive forces between charged particles at an oil–water interface, *Phys. Rev. Lett.* 88(24) (2002) 246102.
  15. Aveyard R., B.P. Binks, J.H. Clint, P.D.I. Fletcher, B. Neumann, V.N. Paunov, J. Annesley, S.W. Botchway, A.W. Parker, A.D. Ward, Drag force on a stationary particle in flowing two-dimensional

- ordered particle monolayers: simulation and measurements using optical tweezers, *Langmuir* 18(24) (2002) 9587–9593.
16. Joseph D.D., J. Wang, R. Bai, B.H. Yang, H.H. Hu, Particle motion in a liquid film rimming the inside of a partially filled rotating cylinder, *J. Fluid Mech.* 496 (2003) 139–163.
  17. Sickert M., F. Rondelez, Shear viscosity of Langmuir monolayers in the low-density limit, *Phys. Rev. Lett.* 90(12) (2003) 126104.
  18. Fischer T.M., Comment on "Shear viscosity of Langmuir monolayers in the low-density limit", *Phys. Rev. Lett.* 92(13) (2004) 139603.
  19. Sickert M., F. Rondelez, Comment on "Shear viscosity of Langmuir monolayers in the low-density limit" – Reply, *Phys. Rev. Lett.* 92(13) (2004) 139604.
  20. Haris S.S., T.D. Giorgio, Convective flow increases lipoplex delivery ratio to in vitro cellular monolayers, *Gene Therapy* 12(6) (2005) 512–520.
  21. Khattari Z., Y. Ruschel, H.Z. Wen, A. Fischer, T.M. Fischer, Compactification of a myelin mimetic Langmuir monolayer upon adsorption and unfolding of myelin basic protein, *J. Phys. Chem. B* 109(8) (2005) 3402–3407.
  22. Loudet J.C., A.M. Alsayed, J. Zhang, A.G. Yodh, Capillary interactions between anisotropic colloidal particles, *Phys. Rev. Lett.* 94(1) (2005) 018301.
  23. Menneson E., Transendothelial crossing of genes: dynamic studies of polyplexes specific crossing over pulmonary endothelium, PhD Thesis, Université d'Orléans, 2005.
  24. Singh P., D.D. Joseph, Fluid dynamics of floating particles, *J. Fluid Mech.* 530 (2005) 31–80.
  25. Vassileva N.D., D. van den Ende, F. Mugele, J. Mellema, Capillary forces between spherical particles floating at a liquid-liquid interface, *Langmuir* 21(24) (2005) 11190–11200.
  26. DeWitt J.M., The characterization of surface diffusion by digital particle tracking, PhD Thesis, Oklahoma State University, 2006.
  27. Fischer T.M., P. Dhar, P. Heinig, The viscous drag of spheres and filaments moving in membranes or monolayers, *J. Fluid Mech.* 558 (2006) 451–475.
  28. Interfacial Rheology, R. Miller and L. Liggiery Eds., 2006, Ch. 10.
  29. Vassileva N.D., Behavior of Two-Dimensional Aggregates in Shear Flow, PhD Thesis, Group of Complex Fluids, University of Twente, The Netherlands, August 2006.
  30. Bonales L.J., H. Ritacco, J.E.F. Rubio, R.G. Rubio, F. Monroy, F. Ortega, Dynamics of ultrathin films: particle tracking microrheology of Langmuir monolayers, *Open Phys. Chem. J.* 1 (2007) 25–32.
  31. Dimova R., C. Dietrich, B. Pouligny, Motion of particles attached to giant vesicles: falling ball viscosimetry and elasticity measurements on lipid membranes, *Giant Vesicles: Perspectives in Supramolecular Chemistry* 6 (2007) 221–229.
  32. Sickert M., F. Rondelez, H.A. Stone, Single-particle brownian dynamics for characterizing the rheology of fluid Langmuir monolayers, *EPL* 79(16) (2007) 66005.
  33. Dhar P., Autonomous and guided motion of active components at interfaces, PhD Thesis, Department of Chemistry and Biochemistry, Florida State University, 2008.
  34. Chen W., P. Tong, Short-time self-diffusion of weakly charged silica spheres at aqueous interfaces, *EPL* 84(2) (2008) 28003.
  35. Park B.J., E.M. Furst, Optical trapping forces for colloids at the oil-water interface, *Langmuir* 24(23) (2008) 13382–13392.
  36. Peng Y., W. Chen, Th.M. Fisher, D.A. Weitz, P. Tong, Short-time self-diffusion of nearly hard spheres at an oil-water interface, *Journal of Fluid Mechanics* 618 (2009) 243–261.
  37. Ally J., A. Amirfazli, Magnetophoretic measurement of the drag force on partially immersed microparticles at air-liquid interfaces, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 360(1–3) (2010) 120–128.
  38. Ally J., A. Amirfazli, Review: The status of magnetic aerosol drug targeting in the lung, *AIP Conference Proceedings* 1311 (2010) 307–316.
  39. Ally J.M., Magnetically targeted deposition and retention of particles in the airways for drug delivery, PhD Thesis, Edmonton, Alberta, 2010.
  40. Bławdziewicz J., M.L. Ekiel-Jewska, E. Wajnryb, Hydrodynamic coupling of spherical particles to a planar fluid-fluid interface: Theoretical analysis, *J. Chemical Physics* 133(11) (2010) 114703.
  41. Bławdziewicz J., M.L. Ekiel-Jewska, E. Wajnryb, Motion of a spherical particle near a planar fluid-fluid interface: The effect of surface incompressibility, *J. Chemical Physics* 133(11) (2010) 114702.
  42. Bonales L.J., A. Maestro, R.G. Rubio, F. Ortega, Microrheology of complex fluids, In: *Hydrodynamics: Advanced Topics*, 2010, Ch. 7.
  43. Lee M.H., D.H. Reich, K.J. Stebe, R.L. Leheny, Combined passive and active microrheology study of protein-layer formation at an air-water interface, *Langmuir* 26(4) (2010) 2650–2658.

44. Lewadnowski E.P., M. Cavallaro, L. Botto, J.C. Bernate, V. Garbin, K.J. Stebe, Orientation and Self-Assembly of Cylindrical Particles by Anisotropic Capillary Interactions, *Langmuir* 26(19) (2010) 15142–15154.
45. Murakami D., U. Langer, Z. Khatarri, T.M. Fischer, Fluorinated Langmuir monolayers are more viscous than non-fluorinated monolayers, *Journal of Physical Chemistry B* 114(16) (2010) 5376–5379.
46. Ortega F., H. Ritacco, R.G. Rubio, Interfacial microrheology: particle tracking and related techniques, *Current Opinion in Colloid and Interface Science* 15(4) (2010) 237–245.
47. Singh P., D.D. Joseph, N. Aubry, Dispersion and attraction of particles floating on fluid-liquid surfaces, *Soft Matter* 6(18) (2010) 4310–4325.
48. Wilke N., F. Vega Mercado, B. Maggio, Rheological properties of a two phase lipid monolayer at the air/water interface: Effect of the composition of the mixture, *Langmuir* 26(3) (2010) 11050–11059.
49. Bonales L.J., A. Maestro, R.G. Rubio, F. Ortega, Microrheology of complex fluids, in: *Hydrodynamics: Advanced Topics*, 2011, Ch. 7.
50. Gehring T., T.M. Fischer, Diffusion of nanoparticles at an air/water interface is not invariant under a reversal of the particle charge, *Journal of Physical Chemistry C* 115(48) (2011) 23677–23681.
51. Park C.Y., H.D. Qu-Yang, M.W. Kim, Interface shear microrheometer with an optically driven oscillating probe particle, *Review of Scientific Instruments* 82(9) (2011) 094702.
52. Pozrikidis C., A floating prolate spheroid, *J. Colloid Interface Science* 364(1) (2011) 248–256.
53. Roche M., H. Kellay, Pinch-off in the presence of surface-active polymers, *EPL* 95(5) (2011) 54003.
54. Abras D., G. Pranami, N.L. Abbott, The mobilities of micro- and nano-particles at interfaces of nematic liquid crystals, *Soft Matter* 8(6) (2012) 2026–2035.
55. Du K., J.A. Liddle, A.J. Berglund, Three-dimensional real-time tracking of nanoparticles at an oil-water interface, *Langmuir* 28(25) (2012) 9181–9188.
56. Pozrikidis C., Capillary attraction of floating rods, *Engineering Analysis with Boundary Elements* 36(5) (2012) 836–844.
57. Cohn Y., M. Fisson, K. Jourde, G.G. Fuller, N. Sanson, L. Talini, C. Monteux, Tracking the interfacial dynamics of PNIPAM soft microgels particles adsorbed at the air-water interface and in thin liquid films, *Rheologica Acta* 52(5) (2013) 445–454.
58. Koynov K., H.-J. Butt, Particle and tracer diffusion in complex liquids, *AIP Conference Proceedings* 1518 (2013) 357–364.
59. Morse J., A. Huang, G. Li, M.R. Maxey, J.X. Tang, Molecular adsorption steers bacterial swimming at the air/water interface, *Biophysical Journal* 105(1) (2013) 21–28.
60. Park B.J., D. Lee, Spontaneous particle transport through a triple-fluid phase boundary, *Langmuir* 29(31) (2013) 9662–9667.
61. Sinha A., A.K. Mollah, S. Hardt, R. Ganguly, Particle dynamics and separation at liquid-liquid interfaces, *Soft Matter* 9(22) (2013) 5438–5447.
62. Cao Z., D. Wang, H.-J. Butt, Diffusion of isolated surface-active molecules at the air/water interface, *Colloid and Polymer Science*, 292(8) (2014) 1817–1823.
63. Maestro A., Guzman E., Ortega F., Rubio R.G., Contact angle of micro- and nanoparticles at fluid interfaces, *Current Opinion in Colloid and Interface Science* 19(4) (2014) 355–367.
64. Memdoza A.J., E. Guzman, F. Martinez-Pedrero, H. Ritacco, R.G. Rubio, F. Ortega, V.M. Starov, R. Miller, Particle laden fluid interfaces: dynamics and interfacial rheology, *Advances in Colloid and Interface Science* 206 (2014) 303–319.
65. Samaniuk J.R., J. Vermant, Micro and macrorheology at fluid-fluid interfaces, *Soft Matter* 10(36) (2014) 7023–7033.
66. Zell Z.A., A. Nowbahar, V. Mansard, L.G. Leal, S.S. Deshmukh, J.M. Mecca, C.J. Tucker, T.M. Squires, Surface shear inviscidity of soluble surfactants, *Proceedings of the National Academy of Sciences of USA* 111(10) (2014) 3677–3682.
67. Boniello G., Mouvement brownien des particules colloïdales partiellement mouillées, PhD Thesis, Université Montpellier II, 2015.
68. Boniello G., C. Bianc, D. Fedorenko, M. Medfai, N.B. Mbarek, M. In, M. Gross, A. Stocco, M. Nobili, Brownian diffusion of a partially wetted colloid, *Nature Materials* 14(9) (2015) 908–911.
69. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil-water interface, *Langmuir* 31(49) (2015) 13290–13302.
70. Dorr A., S. Hardt, Driven particles at fluid interfaces acting as capillary dipoles, *Journal of Fluid Mechanics* 770 (2015) 5–26.
71. Grande J., Finite element discretization error analysis of the general interfacial stress functional, *SIAM Journal of Numerical Analysis* 53(3) (2015) 1236–1255.



72. Kajorndejnukul V., Conservation laws and electromagnetic interactions, Phd Thesis, University of Central Florida, 2015.
73. Park C.Y., M.W. Kim, Dynamic mechanical properties of a polyelectrolyte adsorbed insoluble lipid monolayer at the air-water interface, *Journal of Physical Chemistry B* 119(16) (2015) 5315–5320.
74. Petkov J.T., N.D. Denkov, Thin liquid films and interfaces: particle dynamics, in: *Encyclopedia of Surface and Colloid Science*, 2015, 7399–7414.
75. Schenck D.M., Submersion and lateral transport behavior of microparticles at a lung surfactant interface on model mucus hydrogels, PhD Thesis, University of Iowa, 2015.
76. Stone H., H. Masoud, Mobility of membrane-trapped particles, *Journal of Fluid Mechanics* 781 (2015) 494–505.
77. Sukhov S., V. Kajorndejnukul, R.R. Naraghi, A. Dogariu, Dynamic consequences of optical spin-orbit interaction, *Nature Photonics* 9(12) (2015) 809–812.
78. Tamura J., M. Hasegawa, K. Goto, K. Mochiji, K. Mortani, N. Inui, Weighing a single Brownian particle in a droplet, *Journal of the Physical Society of Japan* 84(8) (2015) 084001.
79. Boniello G., A. Stocco, M. Gross, M. In, C. Blanc, M. Nobili, Translational viscous drag of an ellipsoid straddling an interface between two fluids, *Physical Review E* 94 (2016) 012602.
80. Cappelli S., A.M. De Jong, J. Boudry, M.W.J. Prins, Interfacial rheometry of polymer at a water-oil interface by intra-pair magnetophoresis, *Soft Matter* 12(25) (2016) 5551–5562.
81. Cappelli S., Magnetic particles at fluid-fluid interfaces: microrheology, interaction and wetting, PhD Thesis, Technical University, Eindhoven, 2016.
82. Dorr A., S. Hardt, H. Masoud, H.A. Stone, Drag and diffusion coefficients of a spherical particle attached to a fluid-fluid interface, *Journal of Fluid Mechanics* 790 (2016) 607–618.
83. Elfring G.J., L.G. Leal, T.M. Squires, Surface viscosity and Marangoni stresses at surfactant laden interfaces, *Journal of Fluid Mechanics* 792 (2016) 712–739.
84. Girot A., N. Danne, A. Wurger, T. Bickel, F. Ren, J.C. Loudet, B. Pouligny, Motion of optically heated spheres at the water-air interface, *Langmuir* 32(11) (2016) 2687–2697.
85. Rahmani A.M., A. Wang, V.N. Manoharan, C.E. Colosqui, Colloidal particle adsorption at liquid interfaces: Capillary driven dynamics and thermally activated kinetics, *Soft Matter* 12(30) (2016) 6365–6372.
86. Shigyou K., K.N. Nagai, T. Hamada, Lateral diffusion of submicrometer particle on a lipid bilayer membrane, *Langmuir* 32(51) (2016) 13771–13777.
87. Waigh T.A., Advances in the microrheology of complex fluids, *Reports on Progress in Physics* 79 (2016) 074601.
88. Wei W.-S., M.A. Gharbi, M.A. Lohr, T. Still, M.D. Gratale, T.C. Lubensky, K.J. Stebe, A.G. Yodh, Dynamics of ordered colloidal particle monolayers at nematic liquid crystal interfaces, *Soft Matter* 12 (21) (2016) 4715–4724.
89. Zell Z.A., V. Mansard, J. Wright, K. Kim, S.Q. Choi, T.M. Squires, Linear and nonlinear microrheometry of small samples and interfaces using microfabricated probes, *Journal of Rheology* 60(1) (2016) 141–159.
90. Boniello G., A. Stocco, C. Blank, M. Nobili, Comment on “Brownian diffusion of a particle at an air/liquid interface: elastic (non viscous) response of a surface, *Physical Chemistry Chemical Physics* 19 (2017) 22592–22593.
91. Cappelli S., A.M. De Jong, J. Baudry, M.W.J. Prins, Interparticle capillary forces at fluid-fluid interface with strong polymer-induced aging, *Langmuir* 33 (2017) 696–705.
92. Huang S., K. Gawlitza, R. Von Klitzing, W. Steffen, G.K. Aurenhammer, Structure and rheology of microgel monolayers at the water/oil interface, *Macromolecules* 50(9) (2017) 3680–3689.
93. Vidal A., L. Botto, Slip flow past a gas-liquid interface with embedded solid particles, *Journal of Fluid Mechanics* 813 (2017) 152–174.
94. Van der Wel C., D. Heinrich, D.J. Kraft, microparticle assembly pathways on lipid membranes, *Biophysical Journal* 113(5) (2017) 1037–1046.
95. Auerhammer G., Magnetorheological gels in two and three dimensions: understanding the interplay between single particle motion, internal deformation, and matrix properties, *Archive of Applied Mechanics* (2018) 1–13.
96. Cristofolini L., D. Orsi, L. Isa, Characterization of the dynamics of interfaces and of interface-dominated systems via spectroscopy and microscopy techniques, *Current Opinion in Colloid and Interface Science* 37 (2018) 13–32.
97. Daddi-Mousa-Ider A., S. Gekle, Brownian motion near an elastic cell membrane: A theoretical study, *European Physical Journal E* 41(2) (2018) 19.
98. Dominquez A., Theory of anomalous collective diffusion in colloidal monolayers on a spherical interface, *Physical Review E* 97(2) (2018) 022607.

99. Guzman E., J. Tajuelo, J.M. Pastor, M.A. Rubio, F. Ortega, R.G. Rubio, Sgear rheology of fluid interfaces: Closing the gap between macro- and micro-rheology, *Current Opinion in Colloid and Interface Science* 37 (2018) 33–48.
  100. Vasudevan S.A., Dynamics and wetting of heterogeneous colloids at liquid interfaces, PhD Thesis, ETH Zurich, 2018.
  101. Vasudevan S.A., A. Rauch, M. Kroeger, M. Karg, L. Isa, Dynamics and wetting behavior of core-shell soft particles at a fluid-fluid interface, *Langmuir* 34(50) (2018) 15370–15382.
  102. Laal-Dehghani N., G.F. Christopher, 2D stokesian simulation of particle aggregation at quiescent air/oil-water interfaces, *Journal of Colloid and Interface Science* 553 (2019) 259–268.
  103. Mangiarotti A., V.V. Galassi, E.N. Puentes, R.G. Oliveira, M.G. Del Popolo, N. Wilke, Haponoids like sterols form compact but fluid films, *Langmuir* 35(30) (2019) 9848–9857.
  104. Ji X., X. Wang, Y. Zhang, D. Zang, Interfacial viscoelasticity and jamming of colloidal particles at fluid-fluid interfaces: A review, *Reports on Progress in Physics* 82 (2020) 126601.
  105. Loudet J.-C., M. Qiu, J. Hemauer, J.J. Feng, Drag force on a particle straddling a fluid interface: influence of interfacial deformation, *The European Physical Journal E* 43 (2020) 13.
  106. Villa S., G. Boniello, A. Stocco, M. Nobili, Motion of micro- and nano-particles interacting with fluid interface, *Advances Colloid Interface Science* 248 (2020) 102262.
  107. Gidituri H., A. Wurger, K. Stratford, J.S. Lintuvuori, Dynamics of a spherical colloid at a liquid interface: A lattice Boltzmann study, *Physics of Fluids* 33 (2021) 052110.
  108. Jaensson N.O., P.D. Anderson, J. Vermant, Computational interfacial rheology, *Journal of non-Newtonian Fluid Mechanics* 290 (2021) 104507.
  109. Nagao M., E.G. Kelley, A., Faraone, M. Saito, Y. Yoda, M. Kurokuzo, S. Takata, M. Seto, P.D. Butler, Relationship between viscosity and alkyl tail dynamics in lipid bilayers, *Physical Review Letters* 127 (2021) 078102.
  110. Pourali M., M. Kroger, J. Vermant, P.D. Anderson, N.O. Jaensson, Drag on a spherical particle at the air–liquid interface: Interplay between compressibility, Marangoni flow, and surface viscosities, *Physics of Fluids* 33 (2021) 062103.
  111. Pourali M., N.O. Jaensson, M. Kroger, Drag of spheroidal particle at clean and surfactant-laden interfaces: effects of particle aspect ratio, contact angle and surface viscosities, *Journal of Fluid Mechanics* 924 (2021) A30.
  112. Sanchez-Puga P., J. Tajuelo, J.M. Pastor, M.A. Rubio, Flow field-based data analysis in interfacial shear rheometry, *Advances in Colloid and Interface Science* 288 (2021) 102332.
  113. Singh N., V. Narsimhan, Impact of surface viscosity on the stability of a droplet translating through a stagnant fluid, *Journal of Fluid Mechanics* 927 (2021) A44.
  114. Denk J., M. Molaei, N.G. Chisholm, T. Yao, A. Read, K.J. Stebe, Active colloids on fluid interfaces, *Current Opinion in Colloid and Interface Science* 61 (2022) 101629.
  115. Ibraheem A., Ultra-clean steel production: Behavior of micro-sized alumina inclusions at the Ar gas/liquid steel interface, PhD Thesis, Montan University, Leoben, 2022.
  116. Moghaddam K.R., H.W. Yarranton, G. Natale, Interfacial micro and macro rheology of fractionated asphaltenes, *Colloids Surfaces A* 651 (2022) 129659.
  117. Moghaddam K.R., T. Roy, G. Natale, Interfacial microrheology: characteristics of homogeneous and heterogeneous interfaces, *Rheological Acta* 61 (2022) 733–744.
  118. Puga P.S., Reología interfacial de cizalla. Nuevos esquemas de análisis de datos y su aplicación al estudio de monocapas de Langmuir de cidos grasos, PhD Thesis, UNED, 2022.
  119. Trevenen S., P.J. Beltrano, Mirau interferometry of fluid interfaces deformed by colloids under the influence of external fields, *Review of Scientific Instruments* 93 (2022) 073701.
  120. Zhou Z., P.M. Vlahovska, M.J. Miksis, Drag force on spherical particles trapped at a liquid interface, *Physical Review Fluids* 7 (2022) 124001.
  121. He J., Y. Xu, X. Li, K. Wang, L. Cao, S. Xiong, Research progress in the preparation of ultrafine copper powder by the polyol method, *Nonferrous Materials Science and Engineering* 14 (2023) 781–790.
  122. Protiere S., Particle rafts and armored droplets, *Annual Review of Fluid Mechanics* 55 (2023) 459–480.
- 40 **K.D. Danov, R. Aust, F. Durst, U. Lange, On the slow motion of an interfacial viscous droplet in a thin liquid layer, *Chem. Eng. Sci.* 50(18) (1995) 2943–2956. (брой: 6)**
1. Dimova R., Hydrodynamic Properties of Model Membranes Studied by Means of Optical Manipulation of Particles, PhD Thesis, Bordeaux Universite I, Bordeaux, France, 1999.
  2. Zapryanov Z., S. Tabakova, Dynamics of Bubbles, Drops and Rigid Particles, Kluwer Acad. Publ., 1999.
  3. Raturi S., S. Datta, B.V.R. Kumar, Slow viscous flow past cylindrical particles with thin liquid layer: cell model, *European Journal of Mechanics B* 71 (2018) 151–159.

4. Dani A., Y. Mohsen, C. Maldarelli, Hydrodynamic interactions between charged and uncharged Brownian colloids at a fluid-fluid interface, *Journal of Colloid and Interface Science* 628 (2022) 931–945.
  5. Raturi S., B.V.R. Kumar, The effect of surfactant on the drag and wall correction factor of a drop in a bounded medium, *Zeitschrift fur Naturforschung A* 77 (2022) 339–352.
  6. Cui K., N. Sui, J. Wei, J. Wang, S. Miao, T. Li, K. Huang, Shear flow induced specific ion interfacial effect on enhanced difference in mass transfer in the boundary layer, *Chemical Engineering Journal* 454 (2023) 140199.
- 39 K.D. Danov, R. Aust, F. Durst, U. Lange, Influence of the surface viscosity on the drag and torque coefficients of a solid particle in a thin liquid layer, *Chem. Eng. Sci.* 50(2) (1995) 263–277. (брой: 16)**
1. Advani S.G., T.S. Creasy, Rheology of long discontinuous fiber thermoplastic composites, *Rheology Series* 8(C) (1999) 843–892.
  2. Dimova R., Hydrodynamic Properties of Model Membranes Studied by Means of Optical Manipulation of Particles, PhD Thesis, Bordeaux Universite I, Bordeaux, France, 1999.
  3. Maenosono S., C.D. Dushkin, Y. Yamaguchi, Direct measurement of the viscous force between two spherical particles trapped in a thin wetting film, *Colloid Polym. Sci.* 277(10) (1999) 993–996.
  4. Zapryanov Z., S. Tabakova, Dynamics of Bubbles, Drops and Rigid Particles, Kluwer Acad. Publ., 1999.
  5. Veerapaneni S., J.M. Wan, T.K. Tokunaga, Motion of particles in film flow, *Environ. Sci. Technol.* 34(12) (2000) 2465–2471.
  6. Horozov T.S., R. Aveyard, J.H. Clint, B. Neumann, Particle zips: vertical emulsion films with particle monolayers at their surfaces, *Langmuir* 21(6) (2005) 2330–2341.
  7. Fritz C., Transport de Liquide et de Particules dans Un Bord de Plateau, PhD Thesis (Directeur de these Michèle Adler), Université de Marne–La–Vallée, Paris, France, 2006.
  8. Interfacial Rheology, R. Miller and L. Liggiery Eds., 2006, Ch. 10.
  9. Pitois O., C. Fritz, L. Pasol, M. Vignes–Adler, Sedimentation of a sphere in a fluid channel, *Physics of Fluids* 21(10) (2009) 103304.
  10. Botto L., E.P. Lewandowski, M. Cavallaro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
  11. Butt H.-J., C. Semprebon, P. Papadopoulos, D. Vollmer, M. Brinkmann, M. Ciccotti, Design principles for superamphiphobic surfaces, *Soft Matter* 9(2) (2013) 418–423.
  12. Das S., J. Koplik, R. Farinato, D.R. Nagaraj, C. Maldarelli, P. Somasundaran, The translation and rotational dynamics of a colloid moving along the air-liquid interface of a thin film, *Scientific Reports* 8 (2018) 8910.
  13. Raturi S., S. Datta, B.V.R. Kumar, Slow viscous flow past cylindrical particles with thin liquid layer: cell model, *European Journal of Mechanics B* 71 (2018) 151–159.
  14. Das S., J. Koplik, P. Somasundaran, C. Maldarelli, Pairwise hydrodynamic interactions of spherical colloids at a gas-liquid interface, *Journal of Fluid Mechanics* 915 (2021) A99.
  15. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
  16. Raturi S., B.V.R. Kumar, The effect of surfactant on the drag and wall correction factor of a drop in a bounded medium, *Zeitschrift fur Naturforschung A* 77 (2022) 339–352.
- 38 J.T. Petkov, N.D. Denkov, K.D. Danov, O.D. Vele, R. Aust, F. Durst, Measurement of the drag coefficient of spherical particles attached to fluid interfaces, *J. Colloid Interface Sci.* 172 (1995) 147–154. (брой: 83)**
1. Vincze A., R. Fata, M. Zrinyi, Z. Horvolgyi, J. Kertesz, Comparison of aggregation of rodlike and spherical particles: a fractal analysis, *J. Chem. Phys.* 107(18) (1997) 7451–7458.
  2. Dimova R., Hydrodynamic Properties of Model Membranes Studied by Means of Optical Manipulation of Particles, PhD Thesis, Bordeaux Universite I, Bordeaux, France, 1999.
  3. Maenosono S., C.D. Dushkin, Y. Yamaguchi, Direct measurement of the viscous force between two spherical particles trapped in a thin wetting film, *Colloid Polym. Sci.* 277(10) (1999) 993–996.
  4. Kralchevsky P.A., K. Nagayama, Capillary interactions between particles bound to interfaces, liquid films and biomembranes, *Adv. Colloid Interfaces* 85(2–3) (2000) 145–192.
  5. Kralchevsky P.A., K. Nagayama, Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays, Elsevier, Amsterdam, 2001, Ch. 8.
  6. Sur J., H.K. Pak, – , *J. Korean Phys. Soc.* 38(5) (2001) 582–585.
  7. Sur J., H.K. Pak, Capillary force on colloidal particles in a freely suspended liquid thin film, *Phys. Rev. Lett.* 86(19) (2001) 4326–4329.

8. Vincze A., A. Agod, J. Kertesz, M. Zrinyi, Z. Horvolgyi, Aggregation kinetics in two dimensions: real experiments and computer simulations, *J. Chem Phys.* 114(1) (2001) 520–529.
9. Vincze A., Szilard mikroreszecskek aggregacioja folyadek-goz hatarfeluleten, PhD Thesis, Budapesti Muszaki es Gazdasagtudomanyi Egyetem, 2002.
10. Joseph D.D., J. Wang, R. Bai, B.H. Yang, H.H. Hu, Particle motion in a liquid film rimming the inside of a partially filled rotating cylinder, *J. Fluid Mech.* 496 (2003) 139–163.
11. Pell L.E., Controlled synthesis and characterization of silicon nanocrystals, PhD Thesis, University of Texas, 2004.
12. Voros M., A. Agod, P. Basa, M. Zrinyi, Z. Horvolgyi, Analysis of the cluster size distribution of two-dimensional aggregates in terms of polydispersity, *From Colloids to Nanotechnology, Progress in Colloid and Polymer Science* 125 (2004) 216–222.
13. Singh P., D.D. Joseph, Fluid dynamics of floating particles, *J. Fluid Mech.* 530 (2005) 31–80.
14. Vassileva N.D., D. van den Ende, F. Mugele, J. Mellema, Capillary forces between spherical particles floating at a liquid–liquid interface, *Langmuir* 21(24) (2005) 11190–11200.
15. Fischer T.M., P. Dhar, P. Heinig, The viscous drag of spheres and filaments moving in membranes or monolayers, *J. Fluid Mech.* 558 (2006) 451–475.
16. Vassileva N.D., Behavior of Two-Dimensional Aggregates in Shear Flow, PhD Thesis, Group of Complex Fluids, University of Twente, The Netherlands, August 2006.
17. Vassileva N.D., D. van den Ende, F. Mugele, J. Mellema, Restructuring and break-up of two-dimensional aggregates in shear flow, *Langmuir* 22(11) (2006) 4959–4967.
18. Grigoriev D.O., J. Kragel, V. Dutschk, R. Miller, H. Mohwald, Contact angle determination of micro- and nanoparticles at fluid/fluid interfaces: the excluded area concept, *Phys. Chem. Chem. Phys.* 9(48) (2007) 6447–6454.
19. Dhar P., Autonomous and guided motion of active components at interfaces, PhD Thesis, Department of Chemistry and Biochemistry, Florida State University, 2008.
20. Ally J., A. Amirfazli, Review: The status of magnetic aerosol drug targeting in the lung, *AIP Conference Proceedings* 1311 (2010) 307–316.
21. Ally J.M., Magnetically targeted deposition and retention of particles on the airways for the drug delivery, PhD Thesis, Department of Mechanical Engineering, University of Alberta, Canada, 2010.
22. Dominguez A., M. Oettel, S. Dietrich, Dynamics of colloidal particles with capillary interactions *Phys. Rev. E* 82(1) (2010) 011402.
23. Maestro A., L.J. Bonales, H. Ritacco, R.G. Rubio, F. Ortega, Effect of the spreading solvent on the three-phase contact angle of microparticles attached at fluid interfaces, *Physical Chemistry Chemical Physics* 12(42) (2010) 14115–14120.
24. Singh P., D.D. Joseph, N. Aubry, Dispersion and attraction of particles floating on fluid–liquid surfaces, *Soft Matter* 6(18) (2010) 4310–4325.
25. Abras D., G. Pranami, N.L. Abbott, The mobilities of micro- and nano-particles at interfaces of nematic liquid crystals, *Soft Matter* 8(6) (2012) 2026–2035.
26. Botto L., E.P. Lewandowski, M. Cavallaro, K.J. Stebe, Capillary interactions between anisotropic particles, *Soft Matter* 8(39) (2012) 9957–9971.
27. Dixit H.N., G.M. Homsy, Capillary effects on floating cylindrical particles, *Physics of Fluids* 24 (2012) 122102.
28. Butt H.-J., C. Semprebon, P. Papadopoulos, D. Vollmer, M. Brinkmann, M. Ciccotti, Design principles for superamphiphobic surfaces, *Soft Matter* 9(2) (2013) 418–423.
29. Sinha A., A.K. Mollah, S. Hardt, R. Ganguly, Particle dynamics and separation at liquid–liquid interfaces, *Soft Matter* 9(22) (2013) 5438–5447.
30. Cooray P.L.H.M., The capillary interactions between objects at liquid interfaces, PhD Thesis, Oxford University, 2014.
31. Boniello G., Mouvement brownien des particules colloïdales partiellement mouillées, PhD Thesis, Université Montpellier II, 2015.
32. Boniello G., C. Bianc, D. Fedorenko, M. Medfai, N.B. Mbarek, M. In, M. Gross, A. Stocco, M. Nobili, Brownian diffusion of a partially wetted colloid, *Nature Materials* 14(9) (2015) 908–911.
33. Dani A., G. Keiser, M. Yeganeh, C. Maldarelli, Hydrodynamics of particles at an oil–water interface, *Langmuir* 31(49) (2015) 13290–13302.
34. Dorr A., S. Hardt, Driven particles at fluid interfaces acting as capillary dipoles, *Journal of Fluid Mechanics* 770 (2015) 5–26.
35. Schenck D.M., Submersion and lateral transport behavior of microparticles at a lung surfactant interface on model mucus hydrogels, PhD Thesis, University of Iowa, 2015.



36. Wong L.T., H.C. Yu, K.W. Mui, W.Y. Chan, Drag constants for common indoor bioaerosols, *Indoor and Built Environment* 24(3) (2015) 401–413.
37. Yuan J., J. Feng, S.K. Cho, Cheerios effect controlled by electrowetting, *Langmuir* 31(30) (2015) 8502–8511.
38. Boniello G., A. Stocco, M. Gross, M. In, C. Blanc, M. Nobili, Translational viscous drag of an ellipsoid straddling an interface between two fluids, *Physical Review E* 94 (2016) 012602.
39. Dkhil M., A. Bolopin, S. Regnier, M. Gauthier, Modeling and 1D control of a non contact magnetic actuation platform at the air/liquid interface for micrometer scale applications, 1st International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2016; Paris; France; July 2016; Category number CFP16D58-ART; Code 123676.
40. Dorr A., S. Hardt, H. Masoud, H.A. Stone, Drag and diffusion coefficients of a spherical particle attached to a fluid-fluid interface, *Journal of Fluid Mechanics* 790 (2016) 607–618.
41. Khaw M.K., C.H. Ooi, F. Mohd-Yasin, R. Vadivelu, J.S. John, N.-T. Nguyen, Digital microfluidics with a magnetically actuated floating liquid marble, *Lab on a Chip* 16(12) (2016) 2211–2218.
42. Lagubeau G., G. Grosjean, A. Darras, G. Lumay, M. Hubert, N. Wandewalle, Statics and dynamics of magnetocapillary bonds, *Physical Review E* 93(5) (2016) 053117.
43. Ooi C. H., A.V. Nguyen, G.M. Evans, D.V. Dao, N.-T. Nguyen, Measuring the coefficient of friction of a small floating liquid marble, *Scientific Reports* 6 (2016) 38346.
44. Rahmani A.M., A. Wang, V.N. Manoharan, C.E. Colosqui, Colloidal particle adsorption at liquid interfaces: capillary driven dynamics and thermally activated kinetics, *Soft Matter* 12 (2016) 6365–6372.
45. Shojaeefard M.H., V. Mousapour Khaneshan, M.R. Yosri, M.A. Ehteram, E. Allymehr, Investigation of engine oil micro-droplets deposition using a round impinging jet, *Journal of the Brazilian Society of Mechanical Science and Engineering* 38(3) (2016) 721–734.
46. Dkhil M., M. Kharboutly, A. Bolopin, S. Regnier, M. Gauthier, Closed-loop control of a magnetic particle at the air-liquid interface, *IEEE Transactions on Automation Science and Engineering* 14(3) (2017) 1387–1399.
47. Gao Y., S. Mitra, E.J. Wanless, R. Moreno-Atanasio, G.M. Evans, Interaction of a spherical particle with a neutrally buoyant immiscible droplet in salt solution, *Chemical Engineering Science* 172 (2017) 182–198.
48. Khaw M.K., C.H. Ooi, F. Mohd-Yasin, A.V. Nguyen, G.M. Evans, N.-T. Nguyen, Dynamic behavior of a magnetically actuated floating liquid marble, *Microfluidics and Nanofluidics* 21 (2017) 110.
49. Koplik J., C. Maldarelli, Diffusivity and hydrodynamic drag of nanoparticles at a vapo-liquid interface, *Physical Review Fluids* 2(2) (2017) 024303.
50. Vidal A., L. Botto, Slip flow past a gas-liquid interface with embedded solid particles, *Journal of Fluid Mechanics* 813 (2017) 152–174.
51. Eigenbrod M., F. Bihler, S. Hardt, Electrokinetics of a particle attached to a fluid interface: Electrophoretic mobility and interfacial deformation, *Physical Review Fluids* 3 (2018) 103701.
52. Grosjean G., Magnetocapillary self-assemblies: Interfacial locomotion at low Reynolds number, PhD Thesis, Liege University, 2018.
53. He Y., L. Wang, L. Zhong, Y. Liu, W. Rong, Transporting microobjects using a magnetic microrobot at water surfaces, 15<sup>th</sup> International Conference on Control, Atomization, Robotics and Vision (2018) 8581297.
54. Ooi C.H., J. Jin, K.R. Sreejith, A.V. Nguyen, G.M. Evans, Nguyen N.-T., Manipulation of a floating liquid marble using dielectrophoresis, *Lab on a Chip* 18(24) (2018) 3770–3779.
55. Ayouri A.N., M.A. Ehteram, Experimental and numerical investigation of the efficiency and pressure drop of an inertial impactor with variable area, *Journal of Applied Fluid Mechanics* 12(4) (2019) 1287–1302.
56. He Y., L. Wang, Q. Li, W. Rong, L. Sun, L. Yang, Design, analysis and experiments of a magnetic microrobot capable of locomotion and manipulation at water surfaces, *Journal of Micromechanics and Microengineering* 29(2) (2019) 025010.
57. Khaneshan V.M., M.H. Shojaeefard, Effect of surface temperature on the impaction and deposition of micron-sized engine oil particles on a heated flat plate, *Journal of Brazilian Society of Mechanical Science and Engineering*, 41 (2019) 225.
58. Kim B.L., A. Rendos, P. Ganesh, K.A. Brown, Failure of particle-laden interfaces studied using the funnel method, *Colloid and Interface Science Communications* 28 (2019) 54–59.
59. McNamee C.E., S. Yamamoto, Forces between a hard surface and an air-aqueous interface with and without films, *Current Opinion in Colloid and Interface Science* 47 (2020) 1–15.
60. Arai N., S. Watanabe, M.T. Miyahara, R. Yamamoto, U. Hampel, G. Lecrivain, Direct observation of the attachment behaviour of hydrophobic colloidal particles onto a bubble surface, *Soft Matter* 16(3) (2020) 695–702.
61. Long C., R. Chen, C. Zhai, F. Chen, C. Yang, Review of magnetic droplet generation and manipulation in microchips, *The Chinese Journal of Process Engineering* 20 (2020) 1134–1146.

62. Loudet J.-C., M. Qiu, J. Hemauer, J.J. Feng, Drag force on a particle straddling a fluid interface: influence of interfacial deformation, *The European Physical Journal E* 43 (2020) 13.
63. Gu C., L. Botto, FIPI: A fast numerical method for the simulation of particle-laden fluid interfaces, *Computer Physics Communications* 256 (2020) 107447.
64. Villa S., G. Boniello, A. Stocco, M. Nobili, Motion of micro- and nano-particles interacting with fluid interface, *Advances Colloid Interface Science* 248 (2020) 102262.
65. Eigenbrod M., The influence of boundary configuration on the dissipation and stability in fluids at low Reynolds numbers, PhD Thesis, Darmstad Technocal University, 2020.
66. Eigenbrod M., S. Hardt, The effective shear and dilatational viscosities of a particle-laden interface in the dilute limit, *Journal of Fluid Mechanics* 903 (2020) A26.
67. Ban'MBarek N., A. Aschi, C. Blank, M. Nobili, Microspheres viscous drag at a deformed fluid interface: particle's weight and electrical charges effects, *The European Physical Journal E* 44 (2021) 26.
68. Gidituri H., A. Wurger, K. Stratford, J.S. Lintuvuori, Dynamics of a spherical colloid at a liquid interface: A lattice Boltzmann study, *Physics of Fluids* 33 (2021) 052110.
69. Maldarelli C., N.T. Donovan, S.C. Ganesh, S. Das, J. Koplik, Continuum and molecular dynamics studies of the hydrodynamics of colloids straddling a fluid interface, *Annual Review of Fluid Mechanics* 54 (2021) 495–523.
70. Pourali M., N.O. Jaensson, M. Kroger, Drag of spheroidal particle at clean and surfactant-laden interfaces: effects of particle aspect ratio, contact angle and surface viscosities, *Journal of Fluid Mechanics* 924 (2021) A30.
71. Yuan J., J. Feng, S.K. Cho, Dielectrowetting control of capillary force (cheerios effect) between floating objects and wall for dielectric fluid, *Micromachines* 12 (2021) 341.
72. Chang H., D. Li, X. Zhang, R. Xu, J. Zhang, Y. Song, size-dependent electrophoretic motion of polystyrene particles at polyethylene glycol-dextran interfaces, *Electrophoresis* 43 (2022) 2112–2119.
73. Ibraheem A., Ultra-clean steel production: Behavior of micro-sized alumina inclusions at the Ar gas/liquid steel interface, PhD Thesis, Montan University, Leoben, 2022.
74. Liu X., W. Zhou, F. Tang, H. Zheng, S.W. Joo, Capillary tweezer for programmable droplet manipulation, *Sensors and Actuators B* 370 (2022) 132380.
75. Qiu Z., Malfliet A., Blanpain B., Guo M., Capillary interaction between arbitrary-shaped inclusions at the gas/steel interface, *Metallurgical and Material Transactions B* 53 (2022) 1894–1903.
76. Qiu Z., Malfliet A., Blanpain B., Guo M., Contact Line Undulation Induced Capillary Interaction Between Micron-Sized  $\text{Ce}_2\text{O}_3$  Inclusions at the Ar Gas/Liquid Steel Interface, *Metallurgical and Material Transactions B* 53 (2022) 1775–1791.
77. Qiu Z., Malfliet A., Blanpain B., Guo M., Behavior of arbitrarily Shaped  $\text{Ce}_2\text{O}_3$  clusters at the Ar gas/liquid steel interface, *Metallurgical and Material Transactions B* 53 (2022) 3896–3908.
78. Qiu Z., Malfliet A., Guo M., Blanpain B., A sub-particle model for capillary interaction between arbitrarily shaped nonmetallic inclusions: Gravity induced, *Metallurgical and Material Transactions B* 53 (2022) 3505–3523.
79. Qiu Z., Malfliet A., Blanpain B., Guo M., Contact line undulation induced capillary interaction between micron-sized  $\text{Ce}_2\text{O}_3$  inclusions at the Ar gas/liquid steel interface, *Metallurgical and Material Transactions B* 53 (2022) 197–207.
80. Ruiz-Martin D., J. Rivero-Rodriguez, M. Sanchez-Sanz, Solid particles moving parallel to a deformable liquid-liquid interface in a micro-channel: migration forces, *Journal of Fluid Mechanics* 948 (2022) A44.
81. Zhou Z., P.M. Vlahovska, M.J. Miksis, Drag force on spherical particles trapped at a liquid interface, *Physical Review Fluids* 7 (2022) 124001.
82. Wang Q., N. Xiang, J. Lang, B. Wang, D. Jin, L. Zhang, Reconfigurable liquid-bodied miniature machines: Magnetic control and microrobotic applications, *Advanced Intelligent Systems* (2023) 2300108.
83. Zhao P., L. Yan, X. Gao, S. Bu, Direct assessment of the hydrophobicity of ionic surfactants via the characteristic curvature (Cc) concept, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* (2023) Volume 14274 LNAI, Pages 434 – 442.
84. Li R., X. Zhou, Interfacial particle motion by dielectrophoretic force, *Colloids and Surfaces A* 682 (2024) 132876.

**37 K.D. Danov, I.B. Ivanov, T.D. Gurkov, R.P. Borwankar, Kinetic model for the simultaneous processes of flocculation and coalescence in emulsion systems, *J. Colloid Interface Sci.* 167 (1994) 8–17. (брой: 61)**

1. Binks B.P., Emulsions, in: *Annual Reports, The Royal Society of Chemistry, Section C*, 92 (1996) 97–133.
2. Lismonde B., Experimental determination of the efficiency of coalescence, *Houille Blanche* 51(1–2) (1996) 105–112.

3. Marquez M.L., E. Rogel, I. Reif, Molecular dynamics simulation of isopropyl naphthalene sulfonate at the water/heptane interface, *Colloids Surfaces A* 106(2–3) (1996) 135–148.
4. Spicer P.T., S.E. Pratsinis, Coagulation and fragmentation: universal steady–state particle–size distribution, *AIChE J.* 42(6) (1996) 1612–1620.
5. Spicer P.T., S.E. Pratsinis, M.D. Trennepohl, G.H.M. Meesters, Coagulation and fragmentation: the variation of shear rate and the time lag for attachment of steady state, *Ind. Eng. Chem. Res.* 35(9) (1996) 3074–3080.
6. Cardenas A., S. Rosi, D. Pazos, H. Rivas, Stability of bitumen in water emulsions. 3. Coalescence, *Vision Tecnologica* 4(2) (1997) 105–118.
7. Petsev D.N., N.D. Denkov, P.A. Kralchevsky, DLVO and non–DLVO surface forces and interactions in colloidal dispersions, *J. Dispersion Sci. Technology* 18(6–7) (1997) 647–659.
8. Spicer P.T., Shear–Induced Aggregation–Fragmentation: Mixing and Aggregate Morphology Effects, PhD Thesis, Department of Chemical Engineering, College of Engineering, University of Cincinnati, 1997.
9. Vivaldo–Lima E., P.E. Wood, A.E. Hamielec, A. Penlidis, An update review on suspension polymerisation, *Ind. Eng. Chem. Res.* 36(4) (1997) 939–965.
10. Binks B.P., Emulsions—Recent Advances in Understanding, in: B.P. Binks (Ed.), *Modern Aspects of Emulsion Science*, Royal Society of Chemistry, UK, 1998, pp. 1–55.
11. Dukhin S.S., J. Sjoblom, Fragmentation of primary flocs in emulsions and the subsequent reduction of coalescence, *J. Dispersion Sci. Technology* 19(2–3) (1998) 311–327.
12. Kabalnov A.S., Coalescence in Emulsions, in: B.P. Binks (Ed.), *Modern Aspects of Emulsion Science*, Royal Society of Chemistry, UK, 1998, pp. 205–260.
13. Saether O., J. Sjoblom, S.V. Verbich, N.A. Mishchuk, S.S. Dukhin, Video–microscopic investigation of the coupling of reversible flocculation and coalescence, *Colloids Surfaces A* 142(2–3) (1998) 189–200.
14. Song M., B.M. Li, A. Steiff, Stochastic simulation of particulate dynamic breakup, *J. Chem. Eng. Jpn.* 31(2) (1998) 201–207.
15. Vivaldo–Lima E., Development of an effective model for particle size distribution in suspension copolymerization of styrene/divinylbenzene, PhD Thesis, McMaster University, 1998.
16. Sing A.J.F., A. Graciaa, J. Lachaise, P. Brochette, J.L. Salager, Interaction and coalescence of nanodroplets in translucent O/W emulsions, *Colloids Surfaces A* 152(1–2) (1999) 31–39.
17. Dukhin S.S., O. Saether, J. Sjoblom, Coupling of coalescence and flocculation in dilute O/W emulsions, in: K.L. Mittal, Promod Kumar (Eds.), *Emulsions, Foams, and Thin Films*, 2000, p. 84.
18. Katsumoto Y., H. Ushiki, B. Mendiboure, A. Graciaa, J. Lachaise, Evolutionary behaviour of miniemulsion phases: II. Growth mechanism of miniemulsion droplets, *J. Physics – Condensed Matter* 12(15) (2000) 3569–3583.
19. Urbina–Villalba G., M. Garcia–Sucre, Brownian dynamics simulation of emulsion stability, *Langmuir* 16(21) (2000) 7975–7985.
20. Dukhin S.S., O. Saether, J. Sjoblom, in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, pp. 71–93.
21. Knyazev A.A., I.N. Karpov, O.I. Mikhalev, Dynamics of phase transitions in oil–in–water emulsions during thermocycling, *Russ. J. Phys. Chem.* 75(10) (2001) 1701–1705.
22. Kong L.G., J.K. Beattie, R.J. Hunter, Electroacoustic determination of size and charge of sunflower oil–in–water emulsions made by high–pressure homogenising, *Chem. Eng. Process* 40(5) (2001) 421–429.
23. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 6.
24. Urbina–Villalba G., M. Garcia–Sucre, A simple computational technique for the systematic study of adsorption effects in emulsified systems. Influence of inhomogeneous surfactant distribution on the coalescence rate of a bitumen–in–water emulsion, *Mol. Simulat.* 27(2) (2001) 75–97.
25. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
26. Madras G., B.J. McCoy, Numerical and similarity solutions for reversible population balance equations with size–dependent rates, *J. Colloid Interface Sci.* 246(2) (2002) 356–365.
27. Petsev D.N., Mechanisms of emulsion flocculation, in: *Encyclopedia of Surface and Colloid Science*, 2002, 3192–3207.
28. Barthelmes G., S.E. Pratsinis, H. Buggisch, Particle size distribution and viscosity of suspensions undergoing shear–induced coagulation and fragmentation, *Chem. Eng. Sci.* 58(13) (2003) 2893–2902.

29. Han B.B., S. Akeprathumchai, S.R. Wickramasinghe, X. Qian, Flocculation of biological cells: experiment vs. theory, *AIChE J.* 49(7) (2003) 1687–1701.
30. Sterling Jr. M.C., Aggregation and transport kinetics of crude oil and sediment in estuarine waters, PhD Thesis, Texas University, 2003.
31. Urbina-Villalba G., M. Garcia-Sucre, J. Toro-Mendoza, Average hydrodynamic correction for the Brownian dynamics calculation of flocculation rates in concentrated dispersions, *Phys. Rev. E* 68(6) (2003) 061408.
32. Mishchuk N.O., Coalescence kinetics of Brownian emulsions. in: D.N. Petsev (Ed.), *Emulsions: Structure Stability and Interactions*, Elsevier, London, 2004, p. 351.
33. Petsev D.N., Theory of emulsion flocculation. in: D.N. Petsev (Ed.), *Emulsions: Structure, Stability and Interactions*, Elsevier, London, 2004; p. 313.
34. Saeter O., J. Sjoblom, S.S. Dukhin, Droplet flocculation and coalescence in dilute oil-in-water emulsions, in: *Food Emulsions*, 2004, Ch. 5.
35. Sterling Jr. M.C., J.S. Bonner, A.N.S. Ernest, C.A. Page, R.L. Autenrieth, Chemical dispersant effectiveness testing: influence of droplet coalescence, *Marine Pollution Bulletin* 48(9–10) (2004) 969–977.
36. Urbina-Villalba G., J. Toro-Mendoza, A. Lozan, M. Garcia-Sucre, Brownian dynamics simulations of emulsion stability. in: B.N. Petsev (Ed.), *Emulsions: Structure Stability and Interaction*, Elsevier, London, 2004, p.677.
37. Kralchevsky P.A., N.D. Denkov, Ivan B. Ivanov: remarkable figure in colloid science, *Colloids Surfaces A* 282–283 (2006) 1–7.
38. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
39. Schmitt-Rozieres M., J. Kregel, D.O. Grigoriev, L. Liggieri, R. Miller, S. Vincent-Bonnieu, M. Antoni, From spherical to polymorphous dispersed phase transition in water/oil emulsions, *Langmuir* 25(8) (2009) 4266–4270.
40. Urbina-Villalba G., A. Lozan, K. Rahn, M.S. Romero-Kano, Calculation of the stability ratio of suspensions using Emulsion Stability Simulations, *Computer Physics Communications* 180(11) (2009) 2129–2139.
41. Urbina-Villalba G., An algorithm for emulsion stability simulations: account of flocculation, coalescence, surfactant adsorption and the process of Ostwald ripening, *Int. J. Mol. Sci.* 10 (2009) 761–804.
42. Afshar A., M.S. Hosseine, The effect of different flow fields on particle size distribution (PSD) in suspensions using modified population balance/DEM, *Proceedings of the Polymer Processing Society Asia/Australia Regional Meeting PPS2011*, 2011.
43. Osorio P., G. Urbina-Villalba, Influence of drop deformability on the stability of devane-in-water emulsions, *J. Surfactants and Detergents* 14(2) (2011) 281–300.
44. Rahn-Chique K., A.M. Puertas, M.S. Rumero-Cano, C. Rojas, G. Urbina-Villalba, Nanoemulsion stability: experimental evaluation of the flocculation rate from turbidity measurements, *Adv. Colloid Interface Sci.* 178 (2012) 1–20.
45. Azizi K., M. Nikazar, Kinetics model of destabilization of oil droplets in oily wastewater emulsions, *Journal of Dispersion Science and Technology* 36(11) (2014) 1581–1587.
46. Hasseine A., Z. Barhoum, M. Attarakih, H.-J. Bart, Analytical solutions of the particle breakage equation by the Adomian decomposition and the variational iteration methods, *Advanced Powder Technology* 26(1) (2015) 105–112.
47. Barhoum Z., Resolution de l'equation du bilan de population pour les systemes continus et discontinus, PhD Thesis, Universite Mohamed Khider Biskra, 2016.
48. Irvine M.A., J.C. Bull, M.J. Keeling, Aggregation dynamics explain vegetation patch-size distributions, *Theoretical Population Biology* 108(1) (2016) 70–74.
49. Sokolovic R.M.S., D.S. Sokolovic, D.D. Govedarica, Liquid-liquid separation using steady-state bed coalescer, *Hemijaska Industrija* 4 (2016) 367–381.
50. Urbina-Villalba G., Use of two-particle simulations for the evaluation of the flocculation rate in the case of insurmountable repulsive barriers, *Revista del Centro de Estudios Interdisciplinarios de la Fisica*, vol 5 (2016) 1–14.
51. Dryden M.S., J. Cooke, R.J. Salib, R.E. Holding, T. Biggs, A.A. Salamat, R.N. Allan, R.S. Newby, F. Halstead, B. Oppenheim, T. Hall, S.C. Cox, L.M. Grover, Z. Al-hindi, L. Novak-Frazer, M.D. Rishardson, Reactive oxygen: A novel antimicrobial mechanism for targeting biofilm-associated infection, *Journal of global Antimicrobial Resistance* 8 (2017) 186–191.
52. Qiao L. M.T. Swihart, Solution-phase synthesis of transition metal oxide nanocrystals: Morphologies, formulae, and mechanisms, *Advances in Colloid and Interface Science* 244 (2017) 199–266.



53. Rahn-Chique K., G. Urbina-Villalba, Dependence of emulsion stability on particle size: Relative importance of drop concentration and destabilization rate on the half lifetimes of O/W nanoemulsions, *Journal of Dispersion Science and Technology* 38(2) (2017) 167–179.
  54. Angardi V., R. Mohan, O. Shoham, Statisitcal approach to estimate coalescence of a single droplet at interface affected by aqueous phase composition, *Journal of Petroleum Scienc and Engineering* 175 (2019) 804–813.
  55. Pawignya H., T.D. Kusworo, B. Pramudono, Kinetic modelling of flocculation and coalescence in the system emulsion of water-xylene-terbutyl oleyl glycosides, *Bulletin of Chemical Reaction Engineering and Catalysis* 14(1) (2019) 60–68.
  56. Nazemzadeh N., L.W. Sillesen, K.V. Gernaey, M.P. Andersson, S.S. Mansouri, Atom-to-enterprise: Multi-scale modelling of flocculation processes, *IChEC April* (2020).
  57. Guan H., A. Lim, J. Hernanderz, J.-T. Liang, Increasing treatment lifetime through sustained release of scale inhibitor from scale inhibitor nanoparticles, *SPE Journal* 26 (2021) 3848–3854.
  58. Angardi V., A. Ettehadi, O. Yucel, Critical review on emulsion stability and characterization techniques in oil processing, *Journal of Energy Resources Technology* 144 (2022) 40801.
  59. Clark N.L., S.-Y. Chuang, J.C. Mauro, Microstructural evolution of droplet phase separation in calcium aluminosilicate glasses, *Journal of the American Ceramic Society* 105 (2022) 193–206.
  60. Clark N.L., Processing-structure-properties ralationships in phase separated calcium-aluminosilicate glasses, PhD Thesis, The Pennsylvania State University, 2022.
  61. Clark N.L., S.-Y. Chuang, J.C. Mauro, Mechanisms of microstructural deformation governing Vickers hardness in phase-separated calcium aluminosilicate glasses, *Journal of the American Ceramic Society* 106 (2023) 4605–4616.
- 36 T. Horozov, K. Danov, P. Kralchevsky, I. Ivanov, R. Borwankar, A local approach in interfacial rheology: theory and experiment, in: First World Congress on Emulsions, Proceedings, Paris, France, 1993, No. 3–20–137. (брой: 9)**
1. Dukhin S.S., G. Kretzschmar, R. Miller, Dynamics of Adsorption at Liquid Interfaces, Elsevier, Amsterdam, 1995, Ch. 4.
  2. Dukhin S.S., G. Kretzschmar, R. Miller, Dynamics of Adsorption at Liquid Interfaces, Elsevier, Amsterdam, 1995, Ch. 5.
  3. Dukhin S.S., G. Kretzschmar, R. Miller, Dynamics of Adsorption at Liquid Interfaces, Elsevier, Amsterdam, 1995, Ch. 6.
  4. Fruhner H., K. Lunckerheimer, R. Miller, Adsorption kinetics and exchange of matter at liquid interfaces and microgravity, *Materials and Fluids under Low Gravity, Lecture Notes in Physics* 464 (1996) 41–50.
  5. Miller R., R. Wustneck, J. Kragel, G. Kretzschmar, Dilational and shear rheology of adsorption layers at liquid interfaces, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 111(1–2) (1996) 75–118.
  6. Miller R., V.B. Fainerman, K.H. Schano, A. Hofmann, W. Heyer, Dynamic surface tension determination using an automated bubble pressure tensiometer, *Tenside, Surfactants, Detergents* 34(5) (1997) 357–363.
  7. Dushkin C.D., Model of the quasi–monodisperse micelles with application to the kinetics of micellization, adsorption and diffusion in surfactant solutions and thin liquid films, *Colloids Surfaces A* 143(2–3) (1998) 283–299.
  8. Joos P., Dynamic Surface Tension, VSO BV, 1999, Ch. 4.
  9. Vakarelski I.U., C.D. Dushkin, Effect of the counterions on the surface properties of surfactant solutions: kinetics of the surface tension and surface potential, *Colloids Surfaces A* 163(2–3) (2000) 177–190.
- 35 K. Danov, O. Velev, I. Ivanov, R. Borwankar, Bancroft rule and hydrodynamic stability of thin films and emulsions, in: First World Congress on Emulsions, Proceedings, Paris, France, 1993, No. 1–21–125. (брой: 1)**
1. Gurkov T., E. Basheva, Hydrodynamic behaviour and stability of approaching deformable drops, in A.T. Hubard (Ed.) *Encyclopedia in Surface and Colloid Science*, Marcel Dekker, 2002.
- 34 K.D. Danov, D.N. Petsev, N.D. Denkov, R. Borwankar, Pair interaction energy between deformable drops and bubbles, J. Chem. Phys. 99(9) (1993) 7179–7189. (брой: 80)**
1. Binks B., Emulsions, *Annual Rep. Royal Soc. Chem.* 92 (1995) 97–133.
  2. Koper G.J.M., W.F.C. Sager, J. Smeets, D. Bedeaux, Aggregation in oil–continuous water sodium BIS(2–ethylhexyl)sulfosuccinate oil microemulsions, *J. Phys. Chem.* 99(35) (1995) 13291–13300.
  3. Dukhin S., J. Sjoblom, in: J. Sjoblom (Ed.), *Emulsion and Emulsion Stability*, Marcel Dekker, 1996, pp. 41–181.

4. Koper G.J.M., W.F.C. Sager, J. Smeets, Thermodynamics of aggregation in droplet–phase water/AOT/oil microemulsions, *Ber. Bunsen Phys. Chem.* 100(3) (1996) 320–322.
5. Schwarz U.S., K. Swamy, G. Gompper, The lamellar–to–isotropic transition in ternary amphiphilic systems, *Europhys. Lett.* 36(2) (1996) 117–122.
6. Ivanov I.B., P.A. Kralchevsky, Stability of emulsions under equilibrium and dynamic conditions, *Colloids Surfaces A* 128(1–3) (1997) 155–175.
7. Leal–Calderon F., O. Mondain–Monval, K. Pays, N. Royer, J. Bibette, Water–in–oil emulsions: role of the solvent molecular size on droplet interactions, *Langmuir* 13(26) (1997) 7008–7011.
8. Mishchuk N.A., S.V. Verbich, S.S. Dukhin, O. Holt, J. Sjoblom, Rapid Brownian coagulation in dilute polydisperse emulsions, *J. Dispersions Sci. Technology* 18(5) (1997) 517–537.
9. Binks B.P., in: B.P. Binks (Ed.), *Modern Aspects of Emulsion Science*, Royal Soc. Chem., 1998, Ch. 1.
10. Fletcher P.D.I., Interactions of emulsion drops, in: D. Möbius, R. Miller (Eds.), *Drops and Bubbles in Interfacial Research*, Elsevier, Amsterdam, 1998, p. 563.
11. Gudwin J.W., T.J. Huang, The rheology of aqueous microgel dispersions, in: *Modern Aspects of Colloidal Dispersions*, Springer, 1998, 25–39.
12. Miklavcic S.J., Perturbation analysis of droplet deformation under electric double layer forces, *Phys. Rev. E* 57(1) (1998) 561–568.
13. Aveyard R., B.P. Binks, J. Esquena, P.D.I. Fletcher, R. Buscall, S. Davies, Flocculation of weakly charged oil–water emulsions, *Langmuir* 15(4) (1999) 970–980.
14. Binks B.P., J.F. Dong, N. Rebolj, Equilibrium phase behaviour and emulsion stability in silicone oil plus water plus AOT mixture, *Phys. Chem. Chem. Phys.* 1(9) (1999) 2335–2344.
15. Hartley P.G., F. Grieser, P. Mulvaney, G.W. Stevens, Surface forces and deformation at the oil–water interfaces probed using AFM force measurement, *Langmuir* 15(21) (1999) 7282–7289.
16. Li X.–S., J.–F. Lu, Y.–G. Li, J.–C. Liu, A new molecular thermodynamic model for osmotic pressures in micelle and oil/water microemulsion systems with nonionic and ionic surfactants, *Ind. Eng. Chem. Res.* 38(7) (1999) 2817–2823.
17. Sing A.J., A. Graciaa, J. Lachaise, P. Brochette, J.L. Salager, Interactions and coalescence of nanodroplets in translucent O/W emulsions, *Colloids Surfaces A* 152(1–2) (1999) 31–39.
18. Xiaosen L., L. Jiufang, L. Yigui, L. Jinshen, F. Dong, Osmotic pressure equation of uncharged micelle and oil/water microemulsion systems, *Chinese J. Chem. Eng.* 7(3) (1999) 271–277.
19. Koh A., G. Gillies, J. Gore, B.R. Saunders, Flocculation and coalescence of oil–in–water poly(dimethylsiloxane) emulsions, *J. Colloid Interface Sci.* 227(2) (2000) 390–397.
20. Urbina–Villalba G., M. Garcia–Sucre, Brownian dynamic simulation of emulsion stability, *Langmuir* 16(21) (2000) 7975–7985.
21. Dukhin S.S., O. Saether, J. Sjoblom, in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, 71–93.
22. Kent P., B.R. Saunders, The role of added electrolyte in the stabilization of inverse emulsions, *J. Colloid Interface Sci.* 242(2) (2001) 437–442.
23. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 5.
24. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 6.
25. Miller R., in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, Ch. 1.
26. Ralston J., D. Fornasiero, N. Mishchuk, The hydrophobic force in flotation – a critique, *Colloids Surfaces A* 192(1–3) (2001) 39–51.
27. Shields M., R. Ellis, B.R. Saunders, A creaming study of weakly flocculated and depletion flocculated oil–in–water emulsions, *Colloids Surfaces A* 178(1–3) (2001) 265–276.
28. Urbina–Villalba G., M. Garcia–Sucre, A simple computational technique for the systematic study of adsorption effects in emulsified systems. Influence of inhomogeneous surfactant distribution on the coalescence rate of a bitumen–in–water emulsion, *Mol. Simulat.* 27(2) (2001) 75–97.
29. Aveyard R., B.P. Binks, J. Esquena, Flocculation transitions of weakly charged oil–in–water emulsions stabilized by different surfactants, *Langmuir* 18(9) (2002) 3487–3494.
30. Miklavcic S.J., P. Attard, Sufficient conditions for the stability and instability of a fluid boundary subjected to local stress, *J. Phys. A – Math. Gen.* 35(19) (2002) 4335–4347.

31. Saether O., J. Sjoblom, S.S. Dukhin, Droplet flocculation and coalescence in dilute oil-in-water emulsions, in: S. Friberg, K. Larsson, J. Sjoblom (Eds.), *Food Emulsions*, Fourth Edition, 2003, Ch. 5, p. 218.
32. Sterling M.C., *Aggregation and Transport Kinetics of Crude Oil and Sediment in Estuarine Waters*, PhD Thesis, University of Oklahoma; M.S., Texas A&M University, USA, 2003.
33. Arditty S., *Fabrication, stability and rheological properties of solid-stabilized emulsions*, PhD Thesis, Bordeaux University, 2004.
34. Mishchuk N.A., A. Sanfeld, A. Steinchen, Interparticle interactions in concentrate water-oil emulsions, *Adv. Colloid Interface Sci.* 112(1-3) (2004) 129-157.
35. Saeter O., J. Sjoblom, S.S. Dukhin, Droplet flocculation and coalescence in dilute oil-in-water emulsion, in: *Food Emulsions*, 2004, Ch. 5.
36. Sterling Jr. M.C., J.S. Bonner, A.N.S. Ernest, C.A. Page, R.L. Autenrieth, Chemical dispersant effectiveness testing: influence of droplet coalescence, *Marine Pollution Bulletin* 48(9-10) (2004) 969-977.
37. Urbina-Villalba G., J. Toro-Mendoza, A. Lozsan, M. Garcia-Sucre, Brownian dynamics simulations of emulsion stability, in: D. Petsev (Ed.), *Emulsions: Structure Stability and Interaction*, Elsevier, London, 2004, Ch. 17, p.677.
38. Dagreou S., B. Mendiboure, A. Allal, G. Marin, J. Lachaise, P. Marchal, L. Choplin, Modeling of the linear viscoelastic properties of oil-in-water emulsions, *J. Colloid Interface Sci.* 282(1) (2005) 202-211.
39. Kralchevsky P.A., I.B. Ivanov, K.P. Ananthapadmanabhan, A. Lips, On the thermodynamics of particle-stabilized emulsions: curvature effects and catastrophic phase inversion, *Langmuir* 21(1) (2005) 50-63.
40. Avila C., *Interfacial phenomena in oil-in-water dispersion*, PhD Thesis, University of Tulsa, 2006.
41. Filip-Boar D., *AFM-CSLM microrheology of aggregated emulsions*, PhD Thesis, University of Twente, 2006.
42. Ichikawa T., T. Dohda, Y. Nakajima, Stability of oil-in-water emulsion with mobile surface charge, *Colloids Surfaces A* 279(1-3) (2006) 128-141.
43. Kottke P.A., A. Saillard, A.G. Fedorov, Droplet growth and transition to coalescence in confined geometries, *Langmuir* 22(13) (2006) 5630-5635.
44. Liu K.K., Deformation behaviour of soft particles: a review, *J. Phys. D – Applied Phys.* 39(11) (2006) R189-R199.
45. Podgorska W., Rozpad i koalescencja kropeł w intermitentnym polu burzliwym, *Prace Wydziału Inżynierii* 30(1) (2006) 3-264.
46. Dukhin A.S., S.S. Dukhin, P.J. Goetz, Gravity as a factor of aggregative stability and coagulation, *Advances in Colloid and Interface Science* 134-135 (2007) 35-71.
47. Zhang S.M., J.D. Chen, Synthesis of open porous emulsion-templated monolith using cetyltrimethylammonium bromide, *Polymer* 48(11) (2007) 3021-3025.
48. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1-65.
49. Xiao J., W. Li, Study on osmotic pressure of non-ionic and ionic surfactant solutions in the micellar and microemulsion regions, *Fluid Phase Equilibria* 263(2) (2008) 231-235.
50. Acevedo-Malave J.A., E. Sira, M. Garcia-Sucre, Film drainage between two drops: Vortex formation in thin liquid films, *Interciencia* 34(6) (2009) 380-384.
51. Acevedo-Malave J.A., E. Sira, M. Garcia-Sucre, A simple model to describe dimple dynamics, *Interciencia* 34(8) (2009) 532-535.
52. Foudazi R., *Models for structure-rheology of highly concentrated emulsions*, PhD Thesis, Cape Peninsula University of Technology, 2009.
53. Urbina-Villalba G., An algorithm for emulsion stability simulations: account of flocculation, coalescence, surfactant adsorption and the process of Ostwald ripening, *Int. J. Mol. Sci.* 10 (2009) 761-804.
54. Dukhin A.S., S.S. Dukhin, Rapid Brownian and gravitational coagulation, *Colloids and Interface Science Series vol. 1* (2010) 345-378.
55. Foudazi R., I. Masalova, A. Ya. Malkin, Effect of interdroplet interaction on elasticity of highly concentrated emulsions, *Applied Rheology* 20(4) (2010) 209-218.
56. Foudazi R., I. Masalova, A. Ya. Malkin, The role of interdroplet interaction in the physics of highly concentrated emulsions, *Colloid Journal* 72(1) (2010) 74-92.
57. Klapper P., *Tensiometrische Stofftransportuntersuchungen der Zinkextraktion mit dem Kationenaustauscher Di(2-ethylhexyl)phosphorsäure*, PhD Thesis, TU Bergakademie Freiberg, Germany, 2010.
58. Rojas C., G. Urbina-Villalba, M. Garcia-Sucre, Lifetime of micrometer-sized drops of oil pressed by buoyancy against a planar interface, *Physical Review E* 81(1) (2010) 016302.

59. Rojas C., M. Garcia-Sucre, G. Urbina-Villalba, Lifetime of oil drops pressed by buoyancy against a planar interface: Large drop, *Physical Review E* 82(5) (2010) 056317.
60. Toro-Mendoza J., A. Lozano, M. Garcia-Sucre, S.A.J. Castellanos, Urbina-Villalba G., Influence of droplet deformability on the coalescence rate of emulsions, *Physical Review E* 81(1) (2010) 011405.
61. Dukhin A.S., S.S. Dukhin, Rapid brownian and gravitational coagulation, *Colloid Stability: The Role of Surface Forces*, Part II, 2 (2011) 345–378.
62. Osorio P., G. Urbina-Villalba, Influence of drop deformability on the stability of devane-in-water emulsions, *J. Surfactants and Detergents* 14(2) (2011) 281–300.
63. Smith K.M., J.W. Butterbaugh, S.P. Beaudoin, Effects of varying surface film thickness on particle adhesion in semiconductor material-based systems, *ECS Transactions* 41(5) (2011) 243–250.
64. Krebs T., K. Schroen, R. Boom, A microfluidic method to study demulsification kinetics, *Lab on a Chip – Miniaturisation for Chemistry and Biology* 12(6) (2012) 1060–1070.
65. Krebs T., K. Schroen, R. Boom, Separation kinetics of an oil-in-water emulsion under enhanced gravity, *Chemical Engineering Science* 71 (2012) 181–125.
66. Krebs T., C.P.G.H. Schroen, R.M. Boom, A microfluidic study of oil-water separation kinetics, *WIT Transactions of Engineering Sciences* 74 (2012) 427–438.
67. Krebs T., C.P.G.H. Schroen, R.M. Boom, Coalescence kinetics of oil-in-water emulsions studied with microfluidics, *Fuel* 106 (2013) 327–334.
68. Smith K.M., J.W. Butterbaugh, S.P. Beaudoin, Effects of coating thickness on particle adhesion in microelectronics-based systems, *ECS Journal of Solid State Science and Technology* 2(11) (2013) P488–P491.
69. Kamp J., M. Kraume, Influence of drop size and superimposed mass transfer on coalescence in liquid-liquid dispersions – Test cell design for single drop investigation, *Chemical Engineering Research and Design* 92(4) (2014) 635–643.
70. Чудинова Н.Н., Синтез и коллоидно-химические характеристики косметических эмульсий, стабилизированных смесями ПАВ, Дисертация, Российский химико-технологический университет, Москва, 2014.
71. Nizamudin N., Optimized heavy oil-in-water emulsions for flow in pipelines, PhD Thesis, The University of Texas at Austin, 2016.
72. Beltramo P.J., M. Gupta, A. Alicke, I. Liaskiene, D.Z. Gunes, C.N. Baroud, J. Varmant, Arresting dissolution by interfacial rheology design, *PNAS* 114(39) (2017) 10373–10378.
73. Kamp J., J. Villwock, M. Kraume, Drop coalescence in technical liquid/liquid applications: A review on experimental techniques and modeling approaches, *Reviews in Chemical Engineering* 33(1) (2017) 1–47.
74. Karthik P., C. Anandharamakrishnan, Droplet coalescence as a potential marker for physicochemical fate of nanoemulsions during in-vitro small intestine digestion, *Colloids and Surfaces A* 553 (2018) 278–287.
75. Narayan S., A.E. Metaxas, R. Bachnak, T. Neumiller, C.S. Dutcher, Zooming in on the role of surfactants in droplet coalescence at the macroscale and microscale, *Current Opinion in Colloid and Interface Science* 50 (2020) 101385.
76. Kamelan H., M. Mazaheri Tehrani, M.R. Edalatian Dovom, S.M.A. Razavi, M.H. Haddad Khodaparast, Effect of low methoxyl pectin on the structural properties of the fat globules of cream: study of dispersed phase by size and morphology of particles, *Iranian Journal of Food Science and Technology* 116 (2021) Vol. 18.
77. Chae J., S.Q. Choi, K. Kim, The role of excess attractive particles in the elasticity of high internal phase Pickering emulsions, *Soft Matter* 18 (2022) 53–61.
78. Tian Y.S., E.Q. Li, E. Elsaadawi, J.M. Zhang, I.U. Vakarelski, S.T. Thoroddsen, Coalescence time of water-in-oil emulsions under shear, *Chemical Engineering Science* 250 (2022) 117257.
79. Lu D., P. Fatehi, Interaction of deformable and hollow particles with rough surface morphology in colloidal systems, *Journal of Colloid and Interface Science* 630 (2023) 497–510.
80. Dukhin A.S., S.S. Dukhin, Rapid Brownian and gravitational coagulation, *Colloids and Interface Science Series* 6 (2014) 345–378.

**32 K.D. Danov, N.D. Denkov, D.N. Petsev, I.B. Ivanov, R. Borwankar, Coalescence dynamics of deformable Brownian emulsion droplets, *Langmuir* 9 (1993) 1731–1740. (брой: 84)**

1. Barzykin A.V., M. Tachiya, Reaction kinetics in microdisperse systems with exchange, *J. Phys. Chem.* 98(10) (1994) 2677–2687.
2. Tachia M., A.V. Barzykin, Diffusion-controlled reactions in micellar systems, *Mat. Res. Soc. Symp. Proc.* 366 (1994) 365–376.
3. Binks B., Emulsions, *Annual Rep. Royal Soc. Chem.* 92 (1995) 97–133.



4. Barzykin A.V., M. Tachiya, Reaction kinetics in microdisperse systems. *Heterogen. Chem. Rev.* 3(2) (1996) 105–167.
5. Dukhin S.S., J. Sjoblom, in: J. Sjoblom (Ed.), *Emulsion and Emulsion Stability*, Marcel Dekker, New York, 1996, 41–181.
6. Mishchuk N.A., J. Sjoblom, S.S. Dukhin, The effect of retardation and screening of van der Waals attractive forces on the breaking of a doublet of drops during sedimentation, *Colloid Journal of the Russian Academy of Sciences: Kolloidnyi Zhurnal* 58(2) (1996) 210–213.
7. Mishchuk N.A., S.V. Verbich, S.S. Dukhin, O. Holt, J. Sjoblom, Rapid Brownian coagulation in dilute polydisperse emulsions, *J. Dispersion Sci. Technology* 18(5) (1997) 517–537.
8. Verbich S.V., S.S. Dukhin, A. Tarovski, O. Holt, O. Saether, J. Sjoblom, Evaluation of stability ratio in oil–in–water emulsions, *Colloids Surfaces A* 123–124 (1997) 209–223.
9. Vivaldo–Lima E., P.E. Wood, A.E. Hamielec, A. Penlidis, An updated review on suspension polymerisation, *Ind. Eng. Chem. Res.* 36(4) (1997) 939–965.
10. Binks B.P., in: B.P. Binks (Ed.), *Modern Aspects of Emulsion Science*, Royal Soc. Chem., 1998, Ch. 1.
11. Forteny I., A. Zivny, Film drainage between droplets during their coalescence in quiescent polymer blends, *Polymer* 39(12) (1998) 2669–2675.
12. Holt O., O. Saether, J. Sjoblom, S.S. Dukhin, N.A. Mishchuk, Investigation of reversible Brownian flocculation and intradoublet coalescence in o/w emulsions by means of video enhanced microscopy, *Colloids Surfaces A* 141(2) (1998) 269–278.
13. Vivaldo–Lima E., Development of an effective model for particle size distribution in suspension copolymerization of styrene/divinylbenzene, PhD Thesis, McMaster University, 1998.
14. Aveyard R., B.P. Binks, J. Esquena, P.D.I. Fletcher, R. Buscall, S. Davies, Flocculation of weakly charged oil–water emulsions, *Langmuir* 15(4) (1999) 970–980.
15. Saether O., J. Sjoblom, S.B. Verbich, S.S. Dukhin, A videomicroscopic investigation of coupled reversible flocculation and coalescence at singlet–doublet equilibrium in an O/W emulsion of low density contrast, *Journal of Dispersion Science and Technology* 20(1–2) (1999) 295–314.
16. Sing A.J., A. Graciaa, J. Lachaise, P. Brochette, J.L. Salager, Interactions and coalescence of nanodroplets in translucent O/W emulsions, *Colloids Surfaces A* 152(1–2) (1999) 31–39.
17. Tsekov R., S. Kovac, V. Zutic, Attachment of oil droplets and cells on dropping mercury electrode, *Langmuir* 15(17) (1999) 5649–5653.
18. Fortelny I., A. Zivny, Theoretical description of steady droplet size in polymer blends containing a compatibilizer, *Polymer* 41(18) (2000) 6865–6873.
19. Forteny I., Breakup and coalescence of dispersed droplets in compatibilized polymer blends, *J. Macromol. Sci. Phys. B* 39(1) (2000) 67–78.
20. Hydrophile–lipophile balance of surfactants, *Studies in Interface Science* 9(C) (2000) 146–266.
21. Katsumoto Y., H. Ushiki, B. Mendiboure, A. Graciaa, J. Lachaise, Evolutionary behaviour of miniemulsion phases: II. Growth mechanism of miniemulsion droplets, *J. Phys. Condens. Mat.* 12(15) (2000) 3569–3583.
22. Nielloud F., Gilberte Marti–Mestres, *Pharmaceutical Emulsions and Suspensions (Drugs and Pharmaceutical Sciences: a Series of Textbooks and Monographs)*, 2000, p.123.
23. Urbina–Villalba G., M. Garcia–Sucre, Brownian dynamic simulation of emulsion stability, *Langmuir* 16(21) (2000) 7975–7985.
24. Yu W., C.X. Zhou, T.A. Inoue, A coalescence mechanism for the coarsening behavior of polymer blends during a quiescent annealing process. I. Monodispersed particle systems, *J. Polym. Sci. Pol. Phys.* 38(18) (2000) 2378–2389.
25. Barzykin A.V., K. Seki, M. Tachiya, Kinetics of diffusion–assisted reactions in microheterogeneous systems, *Adv. Colloid Interface Sci.* 89–90 (2001) 47–140.
26. Danner T., Tropfenkoaleszenz in Emulsionen, PhD Thesis, Universität Karlsruhe, Germany, 2001.
27. Dukhin S.S., J. Sjoblom, D.T. Wasan, O. Saether, Coalescence coupled with either coagulation or flocculation in dilute emulsions, *Colloids Surfaces A* 180(3) (2001) 223–234.
28. Dukhin S.S., O. Saether, J. Sjoblom, J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, 71–93.
29. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 3.
30. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 5.
31. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 6.

32. Landfester K., Polyreactions in miniemulsions, *Macromol. Rapid Comm.* 22(12) (2001) 896–936.
33. Mishchuk N.A., L.K. Koopal, S.S. Dukhin, Microflotation suppression and enhancement caused by particle/bubble electrostatic interaction, *J. Colloid Interface Sci.* 237(2) (2001) 208–223.
34. Gurkov T., E. Basheva, Hydrodynamic behaviour and stability of approaching deformable drops, in A.T. Hubbard (Ed.) *Encyclopedia in Surface and Colloid Science*, Marcel Dekker, 2002.
35. Mishchuk N.A., R. Miller, A. Steinchen, A. Sanfeld, Condition of coagulation and flocculation in dilute mini-emulsions, *J. Colloid Interface Sci.* 256(2) (2002) 435–450.
36. Wehr L.R., Investigations to Protein Aggregation Processes by Means of Dynamic and Electrophoretic Light Scattering, PhD Thesis, Fachbereich, Biologie, Chemie, Pharmazie, Institut für Kristallographie, Freie Universität Berlin, Germany, 2002.
37. Dukhin S.S., N.A. Mishchuk, G. Loglio, L. Liggieri, R. Miller, Coalescence coupling with flocculation in dilute emulsions within the primary and/or secondary minimum, *Adv. Colloid. Interface Sci.* 100–102 (2003) 47–82.
38. Leaman A., A review of the dynamics of isolated and interacting bubbles, *Msci Mathematics*, Bristol University, 2003.
39. Meynie L., Evolution et Controle de la Morphologie d'un Mélange Thermoplastique/Thermodurcissable Polymerize sous Cisaillement, PhD Thesis, Ecole Doctorale Materiaux de Lyon, Lyon, France, 2003.
40. Sterling M.C., Aggregation and Transport Kinetics of Crude Oil and Sediment in Estuarine Waters, PhD Thesis, University of Oklahoma, M.S., Texas A&M University, USA, 2003.
41. Vakarelski I.U., A. Toritani, M. Nakayama, K. Higashitani, Effect of particle deformability on interaction between surfaces in solutions, *Langmuir* 19(1) (2003) 110–117.
42. Gillies G., C.A. Prestidge, Interaction forces, deformation and nano-rheology of emulsion droplets as determined by colloid probe AFM, *Adv. Colloid Interface Sci.* 108–109 (2004) 197–205.
43. Mishchuk N.A., A. Sanfeld, A. Steinchen, Interparticle interactions in concentrate water–oil emulsions, *Adv. Colloid Interface Sci.* 112(1–3) (2004) 129–157.
44. Mishchuk N.O., Coalescence kinetics of Brownian emulsions, in: D.N. Petsev (Ed.), *Emulsions: Structure Stability and Interactions*, Elsevier, London, 2004, p. 351.
45. Saether O., H. Sjoblom, S.S. Dukhin, Droplet flocculation and coalescence in dilute oil-in-water emulsions, in: *Food Emulsions*, 2004, Ch. 5.
46. Sterling Jr. M.C., J.S. Bonner, A.N.S. Ernest, C.A. Page, R.L. Autenrieth, Chemical dispersant effectiveness testing: influence of droplet coalescence, *Marine Pollution Bulletin* 48(9–10) (2004) 969–977.
47. Urbina-Villalba G., J. Toro-Mendoza, A. Lozsan, M. Garcia-Sucre, Brownian dynamics simulations of emulsion stability, in: D.N. Petsev (Ed.), *Emulsions: Structure Stability and Interaction*, Elsevier, London, 2004, p. 677.
48. Sanfeld A., A. Steinchen, N. Mishchuk, Energy barrier in dense W/O emulsions, *Colloids Surfaces A* 261(1–3) (2005) 101–107.
49. Urbina-Villalba G., M. Garcia-Sucre, Role of the secondary minimum on the flocculation rate of nondeformable droplets, *Langmuir* 21(15) (2005) 6675–6687.
50. Abe M., K. Kamogawa, Surfactant-free emulsions, in: *Encyclopedia of Surface and Colloid Science*, 2006, 6092.
51. Avila C., Interfacial phenomena in oil-in-water emulsions, PhD Thesis, Toulouse University, 2006.
52. Urbina-Villalba G., A. Lozsan, J. Toro-Mendoza, K. Rahn, M. Garcia-Sucre, Aggregation dynamics in systems of coalescing non-deformable droplets, *J. Molecular Structure–Theochem* 769(1–3) (2006) 171–181.
53. Dukhin A.S., S.S. Dukhin, P.J. Goetz, Gravity as a factor of aggregative stability and coagulation, *Advances in Colloid and Interface Science* 134–135 (2007) 35–71.
54. Zhang S., J. Chen, Synthesis of open porous emulsion-templated monoliths using cetyltrimethylammonium bromide, *Polymer* 48(11) (2007) 3021–3025.
55. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
56. Urbina-Villalba G., An algorithm for emulsion stability simulations: account of flocculation, coalescence, surfactant adsorption and the process of Ostwald ripening, *Int. J. Mol. Sci.* 10 (2009) 761–804.
57. Dukhin A.S., S.S. Dukhin, Rapid Brownian and gravitational coagulation, *Colloids and Interface Science Series vol. 1* (2010) 345–378.
58. Rojas C., G. Urbina-Villalba, M. Garcia-Sucre, Lifetime of micrometer-sized drops of oil pressed by buoyancy against a planar interface, *Physical Review E* 81(1) (2010) 016302.
59. Rojas C., M. Garcia-Sucre, G. Urbina-Villalba, Lifetime of oil drops pressed by buoyancy against a planar interface: Large drop, *Physical Review E* 82(5) (2010) 056317.
60. Toro-Mendoza J., A. Lozsan, M. Garcia-Sucre, S.A.J. Castellanos, Urbina-Villalba G., Influence of droplet deformability on the coalescence rate of emulsions, *Physical Review E* 81(1) (2010) 011405.

61. Dukhin A.S., S.S. Dukhin, Rapid brownian and gravitational coagulation, *Colloid Stability: The Role of Surface Forces*, Part II, 2 (2011) 345–378.
  62. Ibarra-Bracamontes L.A., G. Viramontes-Gamboa, A. Sanchez, M. Chaves-Paez, Brownian dynamics for modeling the evaluation of double emulsions, *WMSCI 2011 – The 15<sup>th</sup> World Multi-Conference on Systemics, Cybernetics and Informatics*, Proceedings, 3 (2011) 188–192.
  63. Osorio P., G. Urbina-Villalba, Influence of drop deformability on the stability of devane-in-water emulsions, *J. Surfactants and Detergents* 14(2) (2011) 281–300.
  64. Rahn-Chique K., A.M. Puertas, M.S. Rumero-Cano, C. Rojas, G. Urbina-Villalba, Nanoemulsion stability: experimental evaluation of the flocculation rate from turbidity measurements, *Adv. Colloid Interface Sci.* 178 (2012) 1–20.
  65. Rayat K., F. Feyzi, Estimation of the electric field strength required for breaking the water-in-oil emulsion: A thermodynamic approach considering droplets deformation and the effect of interfacial tension, *Fluid Phase Equilibria* 316 (2012) 156–163.
  66. Yeh S.-I., W.-F. Fang, H.-J. Sheen, J.-T. Jang, Droplets coalescence and mixing with identical and distinct surface tension on a wettability gradient surface tension, *Microfluidics and Nanofluidics*, 14(5) (2013) 785–795.
  67. Zwicker D., Physical description of centrosomes as active droplets, PhD Thesis, Technical University Dresden, 2013.
  68. Azizi K., M. Nikazar, Kinetics model of destabilization of oil droplets in oily wastewater emulsions, *Journal of Dispersion Science and Technology* 36(11) (2014) 1581–1587.
  69. Dukhin A.S., S.S. Dukhin, Rapid Brownian and gravitational coagulation, in: *Colloid Stability*, 2014, Ch. 11.
  70. Erramreddy V.V., Ghosh S., Influence of emulsifier concentration on nanoemulsion gelation, *Langmuir* 30 (2014) 11062–11074.
  71. Rayat K., F. Feyzi, Thermodynamic modeling of water-in-oil emulsions: Implementation for two sizes of droplets, *Colloid and Surfaces A* 441 (2014) 758–765.
  72. Guo Q., Behaviour of emulsion gels in the human mouth and simulated gastrointestinal tract, PhD Thesis, Massey University, New Zealand, 2015.
  73. Yarlagadda S.C., Dynamics of hard and soft colloids in confined geometries and on structured surfaces, PhD Thesis, Georgia Institute of Technology, 2015.
  74. Yeh S.-I., H.-J. Sheen, J.-T. Jang, Chemical reaction and mixing inside a coalesced droplet after head-on collision, *Microfluidics and Nanofluidics* 18(56) (2015) 1355–1363.
  75. Sokolovic R.M.S., D.S. Sokolovic, D.D. Govedarica, Liquid-liquid separation using steady-state bed coalescer, *Hemijaska Industrija* 4 (2016) 367–381.
  76. Fukui Y., H. Takamatsu, K. Fujimoto, Creation of hybrid polymer particles through morphological tuning of CaCO<sub>3</sub> crystals in miniemulsion systems, *Colloids Surfaces A* 516 (2017) 1–8.
  77. Olejnik A., A. Sliwowska, I. Nowak, Jasmonic acid, methyl jasmonate and methyl dihydrojasmonate as active compounds of topical formulations, *Colloids and Surfaces A* 558 (2018) 558–569.
  78. Tian S., W. Gao, Y. Liu, W. Kang, Study of the stability of heavy crude oil-in-water emulsions stabilized by two different hydrophobic amphiphilic polymers, *Colloids and Surfaces A* 572 (2019) 299–306.
  79. Zhang X., J. Niu, J.-Y. Wu, Development and characterization of new silicon nanoparticles-embedded PCM-in-water emulsions for thermal energy storage, *Applied Energy* 238 (2019) 1407–1416.
  80. Gong S., N. Gao, L. Han, H. Luo, A theoretical model for bubble coalescence by coupling film drainage with approach processes, *Chemical Engineering Science* 213 (2020) 115387.
  81. Джакупова Ж.Е., Ж.К. Жактанбаева, К.С. Мейрамкулова, Р.С. Бегалиева, Влияние минеральных солей пластовой воды высоковязких нефтей на эмульгирование в присутствии амфифильных полимеров, *Химический журнал Казахстана* 4(72) (2020) 82–88.
  82. Lu D., P. Fatehi, Interaction of deformable and hollow particles with rough surface morphology in colloidal systems, *Journal of Colloid and Interface Science* 630 (2023) 497–510.
  83. Dukhin A.S., S.S. Dukhin, Rapid Brownian and gravitational coagulation, *Colloids and Interface Science Series* 6 (2014) 345–378.
  84. Ponrathnan T., I. Behere, S. Ponrathnan, G. Ingavle, Highly interconnected porous monolithic and beaded polymers using high internal phase emulsion polymerization: tuning porous architecture through synthesis variables, *Polymer International* 72 (2023) 451–466.
- 31 N.D. Denkov, D.N. Petsev, K.D. Danov, Interaction between deformable Brownian droplets, *Phys. Rev. Lett.* 71(19) (1993) 3226–3229. (брой: 36)**
1. Binks B., Emulsions, *Annual Rep. Royal Soc. Chem.* 92 (1995) 97–133.

2. Dukhin S.S., J. Sjoblom, in: J. Sjoblom (Ed.), *Emulsion and Emulsion Stability*, Marcel Dekker, 1996, pp. 41–181.
3. Koper G.J.M., W.F.C. Sager, D. Bedeaiix, Thermodynamics of aggregation in droplet–phase water/AOT/oil microemulsions, *Ber. Bunsen Phys. Chem.* 100(3) (1996) 320–322.
4. Poulin P., J. Bibette, Wetting of emulsions droplets: from macroscopic to colloidal scale, *Phys. Rev. Lett.* 79(17) (1997) 3290–3293.
5. Bieker T., S. Dietrich, Wetting of curved surfaces, *Physica A* 252(1–2) (1998) 85–137.
6. Binks B.P., in: B.P. Binks (Ed.), *Modern Aspects of Emulsion Science*, Royal Soc. Chem., 1998, Ch. 1.
7. Miklavcic S.J., Perturbation analysis of droplet deformation under electric double layer forces, *Phys. Rev. E* 57(1) (1998) 561–568.
8. Bibette J., F.L. Calderon, P. Poulin, Emulsions: basic principles, *Rep. Prog. Phys.* 62(6) (1999) 969–1033.
9. Li X.-S., J.-F. Lu, Y.-G. Li, J.-C. Liu, A new molecular thermodynamic model for osmotic pressures in micelle and oil/water microemulsion systems with nonionic and ionic surfactants, *Ind. Eng. Chem. Res.* 38(7) (1999) 2817–2823.
10. Xiaosen L., L. Jiufang, L. Yigui, L. Jinshen, F. Dong, Osmotic pressure equation of uncharged micelle and oil/water microemulsion systems, *Chinese J. Chem. Eng.* 7(3) (1999) 271–277.
11. Dukhin S.S., O. Saether, J. Sjoblom, in: J. Sjoblom (Ed.), *Encyclopedic Handbook of Emulsion Technology*, Marcel Dekker, New York, 2001, pp. 71–93.
12. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two-Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 3.
13. Kralchevsky P.A., K. Nagayama, *Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two-Dimensional Arrays*, Elsevier, Amsterdam, 2001, Ch. 6.
14. Paunov V.N., S.I. Sandler, E.W. Kaler, Critical size and surfactant coverage of styrene miniemulsion droplets stabilized by ionic surfactants, *Langmuir* 17(13) (2001) 4126–4128.
15. Bibette J., in: *Emulsion Science: Basic Principles. An overview*, Springer, Berlin, 2002, Ch. 2.
16. Gurkov T.D., E. Basheva, in: *Encyclopedia of Surface and Colloid Science*, Marcel Decker, 2002.
17. Miklavcic S.J., P. Attard, Sufficient conditions for the stability and instability of a fluid boundary subjected to local stress, *Journal of Physics A: Mathematical and General* 35(19) (2002) 4335–4347.
18. *Surface Forces*, Springer Tr. Mod. Phys. 181 (2002) 5–45.
19. Fu D., J. Lu, J. Liu, Y. Li, New equation of state for microemulsion system, *Journal Chemical Industry Eng. (China)* 54(6) (2003) 725–730.
20. Sterling M.C., *Aggregation and Transport Kinetics of Crude Oil and Sediment in Estuarine Waters*, PhD Thesis, University of Oklahoma, MS, Texas A&M University, USA, 2003.
21. Cortat F. P.-A., S.J. Miklavcic, Using stable and unstable profiles to deduce deformation limits of the air–water interface, *Langmuir* 20(8) (2004) 3208–3220.
22. Fu D., J.-F. Lu, W. Wu, Y.-G. Li, Study on osmotic pressure and liquid–liquid equilibria for micelle, colloid and microemulsion systems by Yukawa potential, *Chinese J. Chem.* 22(7) (2004) 627–637.
23. Sterling M.C., J.S. Bonner, A.N.S. Ernest, C.A. Page, R.L. Autenrieth, Chemical dispersant effectiveness testing: Influence of droplet coalescence, *Marine Pollution Bulletin* 48(9–10) (2004) 969–977.
24. Dagreou S., B. Mendiboure, A. Allal, G. Marin, J. Lachaise, P. Marchal, L. Choplin, Modeling of the linear viscoelastic properties of oil–in–water emulsions, *J. Colloid Interface Sci.* 282(1) (2005) 202–211.
25. Kottke P.A., A. Saillard, A.G. Fedorov, Droplet growth and transition to coalescence in confined geometries, *Langmuir* 22(13) (2006) 5630–5635.
26. Podgorska W., Rozpad i koalelescencja kropeł w intermitentnym polu burzliwym, *Chemical Engineering Processes* 30(1) (2006) 3–264.
27. Leal-Calderon F., J. Bibette, V. Schmitt, *Emulsion Science: Basic Principles*, 2007.
28. Mostowfi F., K. Khristov, J. Czarnecki, J. Masliyah, S. Bhattacharjee, Electric field mediated breakdown of thin liquid films separating microscopic emulsion droplets, *Appl. Physics Lett.* 90(18) (2007) 184102.
29. Wang Y.Z., D. Wu, X.M. Xiong, J.X. Zhiang, Universal and scaling behavior at the proximity of the solid to the deformable air–water interface, *Langmuir* 23(24) (2007) 12119–12124.
30. Sanfeld A., A. Steinchen, Emulsions stability, from dilute to dense emulsions – Role of drops deformation, *Advances in Colloid and Interface Science* 140(1) (2008) 1–65.
31. Xiao J., W. Li, Study on osmotic pressure of non–ionic and ionic surfactant solutions in the micellar and microemulsion regions, *Fluid Phase Equilibria* 263(2) (2008) 231–235.
32. Foudazi R., *Models for structure rheology of highly concentrated emulsions*, PhD Thesis, CPUT, 2009.



33. Foudazi R., I. Masalova, A. Ya. Malkin, The role of interdroplet interaction in the physics of highly concentrated emulsions, *Colloid Journal* 72(1) (2010) 74–92.
  34. Toro–Mendoza J., A. Lozsan, M. Garcia–Sucre, S.A.J. Castellanos, Urbina–Villalba G., Influence of droplet deformability on the coalescence rate of emulsions, *Physical Review E* 81(1) (2010) 011405.
  35. Shen B.Q., Transport and self-assembly of droplets in microfluidic devices, PhD Thesis, Ecole Centrale Paris, 2014.
  36. Jin J., J. Su, C. Xiang, B. Xu, K. Zhao, H. Li, L. Sun, Efficient demulsification of ultralow-concentration crude oil-in-water emulsion by three-dimensional superhydrophilic channels, *Science China Materials* (2021) <https://doi.org/10.1007/s40843-021-1731-4>.
- 26 К.Д. Данов, Об одной модели уединенных внутренних гравитационных волн в безграничной изотермической атмосфере, Геомагнетизм и аэрономия XXIX(2) (1989) 343–344. (брой: 2)**
1. Stenflo L., Acoustic gravity vortices in the atmosphere, *Zeitschrift fur Naturforschung Section A – A Journal of Physical Sciences* 46(6) (1991) 560–560.
  2. Chernogor L.F., V. L. Frolov, Features of the wave disturbances in the ionosphere during periodic heating of the plasma by the “sura” radiation, *Radiophysics and Quantum Electronics*, 56(5) (2013) 276–289.
- 21 К. Danov, I.B. Ivanov, Z.Z. Zapryanov, E. Nakache, S. Raharimalala, Marginal stability of emulsion thin films, in: M.G. Velarde (Ed.), Proceedings of the Conference of Synergetics, Order and Chaos, October 13–17, 1987, Madrid, Spain, World Scientific, Singapore, 1987, pp. 178–192. (брой: 6)**
1. Kralchevsky P.A., K. Nagayama, Particles at Fluid Interfaces and Membranes. Attachment of Colloid Particles and Proteins to Interfaces and Formation of Two–Dimensional Arrays, Elsevier, Amsterdam, 2001.
  2. Вълковска Д.С., Влияние на повърхностно активните вещества върху динамиката и устойчивостта на тънки течни филми, Дисертация за присвояване на научната и образователна степен “доктор”, София, 2001.
  3. Denkov N.D., Mechanism of foam destruction by oil–based antifoams, *Langmuir* 20(22) (2004) 9463–9505.
  4. Denkov N.D., K.G. Marinova, Antifoam effects of solid particles, oil drops and oil–solid compounds in aqueous foams, in: B.P. Binks, T.S. Horozov (Eds.), *Colloidal Particles at Liquid Interfaces*, Cambridge University Press, Cambridge, 2006, p. 383.
  5. Kralchevsky P.A., N.D. Denkov, Ivan B. Ivanov: remarkable figure in colloid science, *Colloids Surfaces A* 282–283 (2006) 1–7.
  6. Thoroddsen S.T., Crown breakup by Marangoni instability, *J. Fluid Mech.* 557 (2006) 63–72.
- 17 D. Vandev, K. Danov, P. Mateev, P. Petrov, M. Kartalev, N. Trendafilov, Z.K. Smith, M. Dryer, Development of a real–time algorithm for detection of solar wind discontinuities, Astrophys. Space Sci. 120 (1986) 211–221. (Citations: 2)**
1. Ayer S.M., C.A. Hein, G.P. Seeley, J.N. Bass, M.J. Kendra, Integrated efforts for analysis of geophysical measurements and models, ADA346154, 1997.
  2. Kruparova O., M. Maksimovic, J. Safrankova, Z. Nemecek, O. Santolik, V. Krupar, Automated interplanetary shock detection and its application to wind observations, *Journal of Geophysical Research A* 118(8) (2013) 4793–4803.
- 4 К.Д. Данов, М.С. Рудерман, Нелинейные волны на мелкой воде в присутствии горизонтального магнитного поля, Изв. АН СССР, Механика жидкости и газа 5 (1983) 110–115. (брой: 10)**
1. Korsunskii S.V., I.T. Selezov, Korteweg–de Vries–type equations in the theory of surface waves in electrically conducting fluids, *Fluid Dynamics* 24 (1989) 975–978.
  2. Korsunskii S.V., Internal waves in two-layer electrically conducting fluid in the presence of a magnetic field, *Fluid Dynamics* 25 (1990) 737–740.
  3. Fonseca G., F. Linares, Benjamin–Ono equation with unbounded data, *J. Mathematical Analysis Applications* 247(2) (2000) 426–447.
  4. Linares F., H.J. Ortega, On the controllability and stabilization of the linearized Benjamin–Ono equation, *ESAIM – Control, Optimisation and Calculus of Variations* 11 (2005) 204–218.
  5. Linares F., G. Ponce, Introduction to nonlinear dispersive equations, Springer, 2009.
  6. Linares F., L. Rosier, Control and stabilization of the Benjamin–Ono equation on a periodic domain, Cornell University, 2012, 1209.5014.
  7. Linares F., L. Rosier, Control and stabilization of the Benjamin–Ono equation on a periodic domain, *Transactions of the American Mathematical Society* 367 (2015) 4595–4626.

8. Hunt M., Two-dimensional surface waves in magnetohydrodynamics, *Journal of Plasma Physics* 85(4) (2019) 905850405.
9. Tomilin A.K., N.F. Kurilskaya, Selectivity of electromagnetic influence on the oscillations of heavy conductive liquid in a chanel, *Journal of Allplied and Industrial Mathematics* 13(2) (2019) 363–371.
10. Cardona D., L. Esquivel, On the Benjamin-Ono equation in the half line, *Nonlinear Analysis, Theory, Methods and Applications* 212 (2021) 112427.