

**Списък на публикациите
на чл.-кор. проф. дмн Красимир Димитров Данов
приложени за участие в конкурса**

*От общо 216 научни труда за конкурса са приложени 130 от тях,
които са разделени в 5 тематични групи.
Приложените 130 публикации са разпределени 110 в квартил Q1, 17 в квартил Q2, 2 в
квартил Q3, 1 в квартил Q4,
като по тях общо са забелязани 5861 цитата.*

- 1. Параболични системи нелинейни частни диференциални уравнения със съществено различни характерни размери – асимптотични методи, устойчивост, числени решения (30 публикации: 26 в квартил Q1; 3 в квартил Q2; 1 в квартил Q4; брой цитати по тези публикации 1330).**
- 1.1. 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.
- 1.2. 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. **(квартил Q1)**
- 1.3. 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. **(квартил Q1)**
- 1.4. 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. **(квартил Q1)**
- 1.5. 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. **(квартил Q1)**
- 1.6. 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. **(квартил Q1)**
- 1.7. 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. **(квартил Q1)**
- 1.8. K.D. Danov, V.N. Paunov, S.D. Stoyanov, N. Alleborn, H. Raszillier, 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. **(квартил Q1)**
- 1.9. 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. **(квартил Q1)**
- 1.10. K.D. Danov, D.S. Valkovska, I.B. Ivanov, Effect of surfactants on the film drainage, J. Colloid Interface Sci. 211 (1999) 291–303. **(квартил Q1)**
- 1.11. 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. **(квартил Q2)**
- 1.12. I.B. Ivanov, K.D. Danov, P.A. Kralchevsky, Flocculation and coalesce of micron-size emulsion droplets, Colloids Surfaces A 152 (1999) 161–182. **(квартил Q2)**

- 1.13. 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. **(квартил Q1)**
- 1.14. 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. **(квартил Q2)**
- 1.15. 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. **(квартил Q1)**
- 1.16. 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. **(квартил Q1)**
- 1.17. G. Brenn, D. Valkovska, K.D. Danov, The formation of satellite droplets by unstable binary drop collisions, *Phys. Fluids* 13(9) (2001) 2463–2477. **(квартил Q1)**
- 1.18. 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. **(квартил Q1)**
- 1.19. 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. **(квартил Q1)**
- 1.20. 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. **(квартил Q1)**
- 1.21. 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. **(квартил Q1)**
- 1.22. 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. **(квартил Q1)**
- 1.23. 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. **(квартил Q1)**
- 1.24. 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. **(квартил Q1)**
- 1.25. 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. **(квартил Q1)**
- 1.26. 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. **(квартил Q1)**
- 1.27. 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. **(квартил Q1)**
- 1.28. K.D. Danov, E.S. Basheva, P.A. Kralchevsky, Effect of ionic correlations on the surface forces in thin liquid films: Influence of multivalent coions and extended theory, *Materials* 9 (2016) Art. No. 145. **(квартил Q1)**
- 1.29. 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. **(квартил Q1)**
- 1.30. K.D. Danov, Stability of liquid-vapor interface at steady-state evaporation and condensation, *Journal of Theoretical and Applied Mechanics* 53 (2023) 319–347. **(квартил Q4)**

2. **Елиптични и хиперболични системи частни диференциални уравнения – аналитични и числени решения за линейни квази-двумерни и спектрални силно нелинейни гранични задачи (32 публикации: 27 в квартил Q1; 5 в квартил Q2; брой цитати по тези публикации 1504).**
 - 2.1. J.T. Petkov, N.D. Denkov, K.D. Danov, O.D. Veleev, R. Aust, F. Durst, Measurement of the drag coefficient of spherical particles attached to fluid interfaces, *J. Colloid Interface Sci.* 172 (1995) 147–154. **(квартил Q1)**
 - 2.2. 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. **(квартил Q1)**
 - 2.3. 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. **(квартил Q1)**
 - 2.4. 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. **(квартил Q1)**
 - 2.5. 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. **(квартил Q1)**
 - 2.6. 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. **(квартил Q1)**
 - 2.7. 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. **(квартил Q2)**
 - 2.8. R. Dimova, C. Dietrich, A. Hadjiski, K. Danov, B. Pouligny, Falling ball viscosimetry of giant vesicle membranes: finite-size effects, *Eur. Phys. J. B* 12 (1999) 589–598. **(квартил Q1)**
 - 2.9. 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. **(квартил Q1)**
 - 2.10. 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. **(квартил Q1)**
 - 2.11. K.D. Danov, On the viscosity of dilute emulsions, *J. Colloid Interface Sci.* 235 (2001) 144–149. **(квартил Q1)**
 - 2.12. 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. **(квартил Q2)**
 - 2.13. 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. **(квартил Q1)**
 - 2.14. 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. **(квартил Q1)**
 - 2.15. 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. **(квартил Q1)**
 - 2.16. 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. **(квартил Q1)**
 - 2.17. 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. **(квартил Q1)**

- 2.18. 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. **(квартил Q1)**
- 2.19. 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. **(квартил Q1)**
- 2.20. 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. **(квартил Q1)**
- 2.21. 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. **(квартил Q1)**
- 2.22. 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. **(квартил Q1)**
- 2.23. 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 β -casein, *Langmuir* 28 (2012) 4168–4177. **(квартил Q1)**
- 2.24. 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. **(квартил Q1)**
- 2.25. 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. **(квартил Q1)**
- 2.26. 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. **(квартил Q1)**
- 2.27. 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. **(квартил Q1)**
- 2.28. 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 (2020) Art. No. 102062. **(квартил Q1)**
- 2.29. 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) Art. No. 125487. **(квартил Q2)**
- 2.30. 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) Art. No. 125558. **(квартил Q2)**
- 2.31. 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) Art. No. 129927. **(квартил Q1)**
- 2.32. T.G. Slavova, G.M. Radulova, K.D. Danov, Saturated micellar networks: Phase separation and nanoemulsification capacity, *Colloids and Interfaces* 8 (2024) Art. No. 11. **(квартил Q2)**

3. **Аналитични решения на уравнения на Лаплас и Хелмхолц с гранични условия на Нойман в сложни области и устойчивост на решенията (20 публикации: 19 в кuartил Q1; 1 в кuartил Q2; брой цитати по тези публикации 1036).**
- 3.1. 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. **(кuartил Q1)**
- 3.2. 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. **(кuartил Q1)**
- 3.3. K.D. Danov, P.A. Kralchevsky, M.P. Boneva, Electrodipping force acting on solid particles at a fluid interface, *Langmuir* 20 (2004) 6139–6151. **(кuartил Q1)**
- 3.4. 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. **(кuartил Q1)**
- 3.5. 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. **(кuartил Q1)**
- 3.6. K.D. Danov, P.A. Kralchevsky, Reply to comment on electrodipping force acting on solid particles at a fluid interface, *Langmuir* 22 (2006) 848–849. **(кuartил Q1)**
- 3.7. 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. **(кuartил Q1)**
- 3.8. 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. **(кuartил Q1)**
- 3.9. 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. **(кuartил Q1)**
- 3.10. 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. **(кuartил Q1)**
- 3.11. 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. **(кuartил Q1)**
- 3.12. 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. **(кuartил Q1)**
- 3.13. 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. **(кuartил Q1)**
- 3.14. 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. **(кuartил Q1)**
- 3.15. 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. **(кuartил Q1)**
- 3.16. K.D. Danov, Asymptotic formulae for the interaction force and torque between two charged parallel cylinders, *Applied Mathematics and Computation* 256 (2015) 642–655. **(кuartил Q2)**

- 3.17. 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. **(квартил Q1)**
- 3.18. P.A. 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) Art. No. 20150130. **(квартил Q1)**
- 3.19. 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. **(квартил Q1)**
- 3.20. 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. **(квартил Q1)**

4. **Интегриращи множители на диференциални форми на Пфаф породени от уравнението на Гибс и Поасон-Болцман и вариационни методи свързани с тях (27 публикации: 23 в квартал Q1; 2 в квартал Q2; 2 в квартал Q3; брой цитати по тези публикации 1283).**
- 4.1. 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. **(квартил Q1)**
- 4.2. 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. **(квартил Q1)**
- 4.3. 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. **(квартил Q1)**
- 4.4. 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. **(квартил Q1)**
- 4.5. 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. **(квартил Q1)**
- 4.6. 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. **(квартил Q1)**
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