

СПИСЪК С ЦИТАТИ

Mateva, R; Petrov, P. Activation of anionic polymerization of  $\epsilon$ -caprolactam in bulk by biscarbamoyl derivatives. *European Polymer Journal* (1999), 35(2), 325-333.

1. Andreas Wollny "Reaktive Extrusion und Charakterisierung von in situ hergestellten Polyamid-12-Blends und -Compositen" Univ., Diss., 2001--Freiburg (Breisgau)
2. Wollny, A.; Nitz, H.; Faulhammer, H.; Hoogen, N.; Muelhaupt, R. In situ formation and compounding of polyamide 12 by reactive extrusion. *Journal of Applied Polymer Science* (2003), 90(2), 344-351.
3. Kelar K Polyamide 6 modified with fullerenes, prepared via anionic polymerization of epsilon-caprolactam *POLIMERY* 51 (6): 415-424 2006
4. Zhang CL, Feng LF, Hu GH Anionic polymerization of lactams: A comparative study on various methods of measuring the conversion of epsilon-caprolactam to polyamide 6 *JOURNAL OF APPLIED POLYMER SCIENCE* 101 (3): 1972-1981 AUG 5 2006
5. Mohammadian-Gezaz S, Ghasemi I, Oromiehie A Preparation of anionic polymerized polyamide 6 using internal mixer: The effect of styrene maleic anhydride as a macroactivator *POLYMER TESTING* Volume: 28 Issue: 5 Pages: 534-542 Published: AUG 2009
6. Book: Roda, J. in: Handbook of ring-opening polymerization, Chapter 7 "Polyamides" pp.195 Eds, Philippe Dubois, Olivier Coulembier, Jean-Marie Raquez – Wiley-VCH 2009 (books.google.com)
7. Piskun Yulia A.; Vasilenko Irina V.; Gaponik Ludmila V.; et al. Activated anionic ring-opening polymerization of epsilon-caprolactam with magnesium di(epsilon-caprolactamate) as initiator: effect of magnesium halides *POLYMER BULLETIN* 68 (6) 1501-1513 (2012)
8. Kelar, K. Mencil, K. Sterzyński, T. Dutkiewicz, M. Maciejewski, H Modyfikowany silseskwioxanem (POSS) poliamid 6 wytwarzany metodą anionowej polimeryzacji  $\epsilon$ -kaprolaktamu, *Polimery*, 2012, 57(10), 697–704
9. K. Khodabakhshi, M. Gilbert, P. Dickens, Monitoring of small-scale anionic polymerization of caprolactam; a method to be used in an additive manufacturing process, *Polymers for Advanced Technologies*, 2013, 24(5), 503–510
10. K. Khodabakhshi, M. Gilbert, S. Fathi, P. Dickens, Anionic polymerisation of caprolactam at the small-scale via DSC investigations: A method to be used in an additive manufacturing process *Journal of Thermal Analysis and Calorimetry* 2014, 115(1), 383-391
11. S Mohammadian-Gezaz, A Khoshhal, Phase Morphology and Dynamic Mechanical Properties of Nylon 6 Based Blends Prepared via Successive In Situ Ring Opening Polymerization, *Journal of Macromolecular Science, Part B*, 2017, 56, 262-278
12. Ageyeva, T., Sibikin, I., Kovács, J.G. Review of thermoplastic resin transfer molding: Process modeling and simulation, *Polymers*, 2019, 11(10), 1555
13. A Belkhiri, Controlling glass/matrix interfacial interactions applied to in situ anionic PA6 synthesis for composite manufacturing, Ph D theses, 2022.

Mateva, R; Petrov, P; Rousseva, S; Dimitrov, R; Zolova, G. On the structure of poly- $\epsilon$ -caprolactams, obtained with bifunctional N-carbamyl derivatives of lactams. *European Polymer Journal* (2000), 36(4), 813-821.

14. Bai, Jiang; Li, Nai-Hong; Williams, Michael C. A polymer by anionic polymerization of  $\epsilon$ -caprolactam with the presence of polycarbonate, and its characterization. *Polymeric Materials Science and Engineering* (2001), 85, 476-477.
15. van Rijswijk K, Bersee HEN, Beukers A, et al. Optimisation of anionic polyamide-6 for vacuum infusion of thermoplastic composites: Influence of polymerisation temperature on matrix properties *POLYMER TESTING* 25 (3): 392-404 MAY 2006
16. Zhang CL, Feng LF, Hu GH Anionic polymerization of lactams: A comparative study on various methods of measuring the conversion of epsilon-caprolactam to polyamide 6 *JOURNAL OF APPLIED POLYMER SCIENCE* 101 (3): 1972-1981 AUG 5 2006
17. Feng Decai, Yang Qi, Bai Yanchao, Zhu Yongping, Gao Yan Effects of Content of Initiator and Activator on the Properties of Monomer Cast Nylon *Plastics Science and Technology* (2006) 34 (4), 18-22.
18. van Rijswijk, K.; Bersee, H. E. N. Reactive processing of textile fiber-reinforced thermoplastic composites - An overview. *Composites, Part A: Applied Science and Manufacturing* (2007), Volume Date 2007, 38 A(3), 666-681.
19. Kjel VAN RIJSWIJK "Vacuum infusion technology for anionic Polyamide-6 composites" PhD Thesis, Technische Universiteit Delft, 2007
20. Xu W, Liu YC, Xiong YQ, et al. Anionic polymerization and properties of graft copolymers consisting of alternating styrene/maleimide copolymer main chains and polyamide 6 grafts *JOURNAL OF APPLIED POLYMER SCIENCE* 108 (3), 1880-1886, 2008
21. Liu, Y.-C., Xu, W., Xiong, Y.-Q., Xu, W.-J. Preparation of PS-g-PA6 copolymers by anionic polymerization of  $\epsilon$ -caprolactam using PS precursors with N-carbamated caprolactam pendants as macroactivators *Journal of Applied Polymer Science* (2008) 108 (5), pp. 3177-3184
22. Liu YC, Xu W, Xiong YQ, et al. Modification of polyamide 6 with polyaminoamide-g-poly(ethylene glycol) via hydrolytic polymerization *CHINESE JOURNAL OF POLYMER SCIENCE* Volume: 27 Issue: 3 Pages: 343-350 Published: MAY 2009

23. K van Rijswijk, AA van Geenen, HEN Bersee Textile fiber-reinforced anionic polyamide-6 composites. Part II: Investigation on interfacial bond Composites Part A 2009
24. Khodabakhshi, K.; Gilbert, M.; Dickens, P.; Hague, R.; Fathi, S. New polymerization-mixture formulation for jetting: an approach to production of polyamide 6 parts Solid Freeform Fabrication Symposium Proceedings (2009), 507-518.
25. Liu, Y.-C., Wang, J.-S., Huang, K.-L., Xu, W. Graft copolymers of poly(methyl methacrylate) and polyamide-6 via in situ anionic polymerization of epsilon-caprolactam and their properties Polymer Bulletin 64 (2): 159-169 (2010)
26. John Baiju; Furukawa Mutsuhisa Structure and mechanical behaviors of thermoplastic polyurethane thin film coated polyamide 6 fibers part II. A solution coating method JOURNAL OF POLYMER RESEARCH 19 (2) Article Number: 9764 (2012)
27. Piskun Yulia A.; Vasilenko Irina V.; Gaponik Ludmila V.; et al. Activated anionic ring-opening polymerization of epsilon-caprolactam with magnesium di(epsilon-caprolactamate) as initiator: effect of magnesium halides POLYMER BULLETIN 68 (6) 1501-1513 (2012)
28. K Khodabakhshi, M Gilbert, P. Dickens Monitoring of small-scale anionic polymerization of caprolactam; a method to be used in an additive manufacturing process Polymers for Advanced Technologies, 2013, 24(5), 503-510
29. Yaochi Liu, Qing Chen, Jing Huang, Chunzhi Wang, Qiong Cao, Graft Copolymer of Poly(styrene-alt-N-phenylmaleimide)/Polyamide 6 Prepared by Anionic Polymerization and Its Thermal Properties, Scientific Journal of Materials Science 2013, 3 (2), 55-63
30. K. Khodabakhshi, M. Gilbert, S. Fathi, P. Dickens, Anionic polymerisation of caprolactam at the small-scale via DSC investigations, Journal of Thermal Analysis and Calorimetry 2014, 115,(1), pp 383-391
31. S Russo, S Maniscalco, L Ricco, Some new perspectives of anionic polyamide 6 (APA 6) synthesis, Polymers for Advanced Technologies, 2015, 26(7) 851-854
32. SK Rahimi, JU Otaigbe, The role of particle surface functionality and microstructure development in isothermal and non-isothermal crystallization behavior of polyamide 6/cellulose nanocrystals nanocomposites, Polymer, 2016, 107, 316-331.
33. Rahimi, S.K., Otaigbe, J.U., The effects of the interface on microstructure and rheo-mechanical properties of polyamide 6/cellulose nanocrystal nanocomposites prepared by in-situ ring-opening polymerization and subsequent melt extrusion, Polymer 2017, 127, pp. 269-285
34. Kashani Rahimi, S., Otaigbe, J.U., Natural cellulose fiber-reinforced polyamide 6 thermoplastic composites prepared via in situ anionic ring-opening polymerization, Polymer Composites, 2019, 40(3), pp. 1104-1116
35. Krylova, V., Dukštienė, N., The structure of PA-Se-S-Cd composite materials probed with FTIR spectroscopy, Applied Surface Science, 2019, 470, pp. 462-471
36. Mohammadi, M., Ahmadi, S., Ghasemi, I., Rahnema, M., Anionic copolymerization of nylon 6/12: A comprehensive review, Polymer Engineering and Science, 2019, 59(8), pp. 1529-1543
37. Valente, M., Rossitti, I., Biblioteka, I., Sambucci, M., Thermoplastic Composite Materials Approach for More Circular Components: From Monomer to In Situ Polymerization, a Review, (2022) Journal of Composites Science, 6 (5), art. no. 132.

Petrov, P; Gancheva, V; Philipova, T; Velichkova, R; Mateva, R. Synthesis of nylon-6 triblock copolymers with bifunctional polymeric activators. Journal of Polymer Science, Part A: Polymer Chemistry (2000), 38(22), 4154-4164.

38. Li, Yulin; Yang, Guisheng. Studies on molecular composites of polyamide 6/polyamide66. Macromolecular Rapid Communications (2004), 25(19), 1714-1718.
39. Hou LL, Liu HZ, Yang GS A novel approach to the preparation of thermoplastic polyurethane elastomer and polyamide 6 blends by in situ anionic ring-opening polymerization of epsilon-caprolactam POLYMER INTERNATIONAL 55 (6): 643-649 JUN 2006
40. Hou, Lianlong; Liu, Hongzhi; Yang, Guisheng; Hou, Lianlong; Liu, Hongzhi; Yang, Guisheng. Preparation and characterization of thermoplastic polyurethane elastomer and polyamide 6 blends by in situ anionic ring-opening polymerization of epsilon-caprolactam. Polymer Engineering and Science (2006), 46(9), 1196-1203.
41. Feng Decai, Yang Qi, Bai Yanchao, Zhu Yongping, Gao Yan Effects of Content of Initiator and Activator on the Properties of Monomer Cast Nylon Plastics Science and Technology (2006) 34 (4), 18-22.
42. Liu, Y.-C., Xu, W., Xiong, Y.-Q., Xu, W.-J. Preparation of PS-g-PA6 copolymers by anionic polymerization of epsilon-caprolactam using PS precursors with N-carbamated caprolactam pendants as macroactivators Journal of Applied Polymer Science (2008) 108 (5), pp. 3177-3184
43. Liu YC, Wang JS, Huang KL, et al. Graft copolymers of poly(methyl methacrylate) and polyamide-6 via in situ anionic polymerization of epsilon-caprolactam and their properties POLYMER BULLETIN Volume: 64 Issue: 2 Pages: 159-169 Published: JAN 2010
44. Novitsky TF, Mathias LJ One-Pot Synthesis of Polyamide 12,T-Polyamide-6 Block Copolymers JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY 2011, 49 (10) 2271-2280
45. Lutz, P.J., Ameduri, B., Peruch, F., Telechelic polyethers by living polymerizations and precise macromolecular engineering (Book Chapter), Handbook of Telechelic Polyesters, Polycarbonates, and Polyethers, 2017, pp. 309-400
46. Sathyan, A., Hayward, R.C., Emrick, T., Ring-Opening Polymerization of Allyl-Functionalized Lactams, Macromolecules, 2019, 52(1), pp. 167-175

47. Li, S., Lai, D., Liu, Y., Fan, S., Zheng, W., Preparation and Crystallization Properties of Zr(HPO<sub>4</sub>)<sub>2</sub>/MCPA6 Composites I [Zr(HPO<sub>4</sub>)<sub>2</sub> /Polymeric Materials Science and Engineering, 2019, 35(5), pp. 150-156
48. Zhao, H., Zhang, D., Li, Y., Morphology and crystallization kinetics of Rubber-modified Nylon 6 Prepared by Anionic In-situ Polymerization, Science and Engineering of Composite Materials, 2020, 27(1), pp. 204-215

Petrov, P; Mateva, R; Dimitrov, R; Rousseva, S; Velichkova, R; Bourssukova, M. Structure and thermal behavior of nylon-6/poly(tetrahydrofuran) triblock copolymers obtained via anionic polymerization. Journal of Applied Polymer Science (2002), 84(7), 1448-1456.

49. Samaha, S. H.; Morsy, M. S.; Essa, D. M.; Tera, F. M. Acrylonitrile grafting onto nylon-6 fabric. II. Thermal, mechanical, and dyeing characterization. Polymer-Plastics Technology and Engineering (2004), 43(4), 1213-1227.
50. Samaha, S. H.; Morsy, M. S.; Essa, Dalia M.; Tera, Ferial M. Acrylonitrile grafting onto nylon-6 fabric. Part 2: thermal, mechanical and dyeing characterization. Egyptian Journal of Textile and Polymer Sciences and Technology (2004), 8(2), 33-44.
51. Cheng Xiao-chun Gu Xu Zhang Qiang-hua STUDY ON MECHANICAL PROPERTIES OF CAST NYLON MODIFIED WITH LAUROLACTAM MODERN PLASTICS PROCESSING AND APPLICATIONS 2005 Vol.17 No.5 P.14-16
52. CHENG Xiao-chun, GU Xu, ZHANG Qiang-hua Preparation and DSC analyses of MC nylon modified by copolymerization APPLIED CHEMICAL INDUSTRY 2005 Vol.34 No.5 P.282-284
53. CHENG Xiao-chun GU Xu ZHANG Qiang-hua Study on Toughening Modification of Monomer Casting Nylon JOURNAL OF HUAIYIN INSTITUTE OF TECHNOLOGY 2006 Vol.15 No.5 P.71-74
54. Deng, X., Liu, A., Wang, J., Yang, J., Li, D. Synthesis and characterization of three-arm polyamide 6-polyurethane block copolymer by monomer casting process Materials & Design 31 (6): 2776-2783, (2010)
55. Hoogenboom, Richard Polyethers and polyoxazolines in Handbook of Ring-Opening Polymerization Edited by Dubois, Philippe; Coulembier, Olivier; Raquez, Jean-Marie (2009), 141-164.
56. Book: FE Du Prez, EJ Goethals and R. Hoogenboom Cationic Polymerizations in Handbook of Polymer Synthesis, Characterization, and Processing By Enrique Saldivar-Guerra, Eduardo Vivaldo-Lima, 2013 , p.183- books.google.com
57. Book: S Carlotti, F Peruch, Cyclic Monomers: Epoxides, Lactide, Lactones, Lactams, Cyclic Silicon-Containing Monomers, Cyclic Carbonates, and Others, In: Anionic Polymerization: Principles, Practice, Strength, Consequences and Applicationa, edited by Nikos Hadjichristidis, Akira Hirao 2015, p.191
58. Huang, H., Li, W., Fei, Y., Study on preparation of PA6/12 copolymer by anionic polymerization, Materials Review, 2016, 30(10), pp. 100-103
59. Lutz, P.J., Ameduri, B., Peruch, F., Telechelic polyethers by living polymerizations and precise macromolecular engineering ( Book Chapter), Handbook of Telechelic Polyesters, Polycarbonates, and Polyethers, 2017, pp. 309-400
60. Gao, Y.-Z., Chang, T.-X., Wu, Y.-X., In-situ preparation and properties of bio-renewable acylated sodium alginate-g-polytetrahydrofuran/Ag-NPs nanocomposites, Applied Surface Science, 2019, 483, pp. 1027-1036
61. Song, L., Yang, H., Li, D., Jiang, Q., Zeng, D., Polydimethylsiloxane/monomer casting nylon copolymers: Preparation, flame-retardant properties, and wear-resistant properties, Journal of Applied Polymer Science, 2020, 137(22), 48753
62. Lang, F., Song, L., Lin, Y., You, Y., Li, D., & Jiang, Q. Preparation and properties of wear-resistant and flame-retardant polyphenylsulfoneurea/monomer casting nylon copolymers. Journal of Applied Polymer Science, 2021, 138(31), 50750.

Petrov, P; Rangelov, S; Novakov, Ch; Brown, W; Berlinova, I; Tsvetanov, Ch B. Core-corona nanoparticles formed by high molecular weight poly(ethylene oxide)-b-poly(alkylglycidyl ether) diblock copolymers. Polymer (2002), 43(25), 6641-6651.

63. Kurosu, Hiromichi; Yamanobe, Takeshi. Synthetic macromolecules. Nuclear Magnetic Resonance (2004), pp 426.
64. Tang, M., Dou, H., Sun, K. One-step synthesis of dextran-based stable nanoparticles assisted by self-assembly Polymer 2006 47 (2), 728-734
65. Tomas Edvinsson, *Doctoral Thesis* "On the size and shape of Polymers and Polymer Complexes: a Computational and LS Study", Uppsala, Acta Universitatis Uppsaliensis, Univ. Bibl., 2002, 775
66. Xavier Andre, *PhD Thesis* "New Double-Responsive Micelles of Block Copolymers, Based on N,N-Diethylacrylamide. Synthesis, Kinetics Micellization and Application as Emulsion Stabilizers", University of Bayreuth and University Pierre et Marie Curie, Paris VI (2005)
67. Nanocarrier Technologies. Frontiers of Nanotherapy. Springer, Netherlands 2006, Chapter 1 Bioactive Entrapment and Targeting Using Nanocarrier Technologies: An Introduction, by M. Reza Mozafari pp.13
68. Alicia Utrata-Wesolek, Polish Academy of Sciences, Institute of Coal Chemistry, "Stimuli sensitive polymers based on reactive polyethers", *Dissertation* 2006, Technical University, Gliwice, Poland
69. Brun-Graeppe, A.K.A.S., Richard, C., Bessodes, M., Scherman, D., Narita, T., Ducouret, G., Merten, O.-W. Study on the sol-gel transition of xyloglucan hydrogels Carbohydrate Polymers 80 (2): 555-562 (2010)
70. Cui, Qianling; Wu, Feipeng; Wang, Erjian Thermosensitive Behavior of Poly(ethylene Glycol)-Based Block Copolymer (PEG-b-PADMO) Controlled via Self-Assembled Microstructure Journal of Physical Chemistry B (2011), 115(19), 5913-5922
71. AL Brocas, C Mantzaridis, D Tunc, S Carlotti Polyether synthesis: from activated or metal-free anionic ring-opening polymerization of epoxides to functionalization Progress in Polymer Science, 2013, 38(6), 845-873

72. R Klein, FR Wurm, Aliphatic Polyethers: Classical Polymers for the 21st Century, *Macromolecular rapid communications*, 2015, 36(12), 1147–1165
73. Book: S Carlotti, F Peruch, Cyclic Monomers: Epoxides, Lactide, Lactones, Lactams, Cyclic Silicon-Containing Monomers, Cyclic Carbonates, and Others In: *Anionic Polymerization: Principles, Practice, Strength, Consequences and Applications*, edited by Nikos Hadjichristidis, Akira Hirao, 2015, p 191
74. Verkoyen, P., Johann, T., Blankenburg, J., Czych, C., Frey, H., Polymerization of long chain alkyl glycidyl ethers: a platform for micellar gels with tailor-made melting points, *Polymer Chemistry*, 2018, 9(44), pp. 5327-5338
75. Kunze, L., Wolfs, J., Verkoyen, P., Frey, H., Crystalline CO<sub>2</sub>-Based Aliphatic Polycarbonates with Long Alkyl Chains, *Macromolecular Rapid Communications*, 2018, 39(24), 1800558
76. Verkoyen, P., Frey, H., Long-Chain Alkyl Epoxides and Glycidyl Ethers: An Underrated Class of Monomers, *Macromolecular Rapid Communications*, 2020, 41(15), 2000225
77. Schneider, K., Verkoyen, P., Krappel, M., Frey, H., Sottmann, T., Efficiency boosting of surfactants with poly(ethylene oxide)-poly(alkyl glycidyl ether)s: A new class of amphiphilic polymers, *Langmuir*, 2020, 36(33), pp. 9849-9866

Petrov, Petar; Stassin, Fabrice; Pagnouille, Christophe; Jerome, Robert. *Noncovalent functionalization of multi-walled carbon nanotubes by pyrene containing polymers. Chemical Communications* (2003), (23), 2904-2905.

78. Stien, Didier; Gastaldi, Stephane. Design of Polyaromatic Hydrocarbon-Supported Tin Reagents: A New Family of Tin Reagents Easily Removable from Reaction Mixtures. *Journal of Organic Chemistry* (2004), 69(13), 4464-4470.
79. Fernando, K. A. Shiral; Lin, Yi; Wang, Wei; Kumar, Satish; Zhou, Bing; Xie, Su-Yuan; Cureton, LaShonda T.; Sun, Ya-Ping. Diminished Band-Gap Transitions of Single-Walled Carbon Nanotubes in Complexation with Aromatic Molecules. *Journal of the American Chemical Society* (2004), 126(33), 10234-10235.
80. Hasegawa, Teruaki; Fujisawa, Tomohisa; Numata, Munenori; Umeda, Mariko; Matsumoto, Takahiro; Kimura, Taro; Okumura, Shiro; Sakurai, Kazuo; Shinkai, Seiji. Single-walled carbon nanotubes acquire a specific lectin-affinity through supramolecular wrapping with lactose-appended schizophyllan. *Chemical Communications (Cambridge, United Kingdom)* (2004), (19), 2150-2151.
81. Birkett, P. R. Fullerenes. *Annual Reports on the Progress of Chemistry, Section A: Inorganic Chemistry* (2004), 100 461-488.
82. Yang, De-Quan; Rochette, Jean-Francois; Sacher, Edward. Spectroscopic Evidence for  $\pi$ - $\pi$  Interaction between Poly(diallyl dimethylammonium chloride) and Multiwalled Carbon Nanotubes. *Journal of Physical Chemistry B* (2005), 109(10), 4481-4484.
83. Paloniemi, Hanna; Aeaeritalo, Timo; Laiho, Taina; Liuke, Hanna; Kocharova, Natalia; Haapakka, Keijo; Terzi, Fabio; Seeber, Renato; Lukkari, Jukka. Water-Soluble Full-Length Single-Wall Carbon Nanotube Polyelectrolytes: Preparation and Characterization. *Journal of Physical Chemistry B* (2005), 109(18), 8634-8642.
84. Wu, X., Shi, G. Synthesis of a carboxyl-containing conducting oligomer and non-covalent sidewall functionalization of single-walled carbon nanotubes *Journal of Materials Chemistry* (2005)15 (18), pp. 1833-1837
85. Nakashima, Naotoshi; Tanaka, Yasuhiko; Tomonari, Yasuhiko; Murakami, Hiroto; Kataura, Hiromichi; Sakaue, Takahiro; Yoshikawa, Kenichi. Helical Superstructures of Fullerene Peapods and Empty Single-Walled Carbon Nanotubes Formed in Water. *Journal of Physical Chemistry B* (2005), 109(27), 13076-13082.
86. Nakashima, Naotoshi. Soluble carbon nanotubes: Fundamentals and applications. *International Journal of Nanoscience* (2005), 4(1), 119-137.
87. Liu P Modifications of carbon nanotubes with polymers *European Polymer Journal* 41 (11): 2693-2703 NOV 2005
88. F Klumpp, C., Kostarelos, K., Prato, M., Bianco, A. Functionalized carbon nanotubes as emerging nanovectors for the delivery of therapeutics *Biochimica et Biophysica Acta - Biomembranes* (2006) 1758 (3), pp. 404-412
89. Zhang, Z., Zhang, B., Chen, P., Zhang, B., He, J., Hu, G.-H. Enhanced interactions between multi-walled carbon nanotubes and polystyrene induced by melt mixing *Carbon* (2006) 44 (4), pp. 692-698
90. Liu, Y.-T. Zhao, W. Huang, Z.-Y., Gao, Y.-F., Xie, X.-M., Wang, X.-H., Ye, X.-Y. Noncovalent surface modification of carbon nanotubes for solubility in organic solvents *Carbon* 44(8) 2006, 1613-1616
91. Murakami H, Nakashima N Soluble carbon nanotubes and their applications
92. *Journal Of Nanoscience and Nanotechnology* 6 (1): 16-27 JAN 2006
93. Paloniemi, Hanna; Lukkari, Jukka; Aeaeritalo, Timo; Areva, Sami; Leiro, Jarkko; Heinonen, Markku; Haapakka, Keijo; Lukkari, Jukka. Layer-by-Layer Electrostatic Self-Assembly of Single-Wall Carbon Nanotube Polyelectrolytes. *Langmuir* (2006), 22(1), 74-83.
94. Tasis, Dimitrios; Tagmatarchis, Nikos; Bianco, Alberto; Prato, Maurizio. Chemistry of Carbon Nanotubes. *Chemical Reviews* (Washington, DC, United States) (2006), 106(3), 1105-1136.
95. Bahun GJ, Wang C, Adronov A Solubilizing single-walled carbon nanotubes with pyrene-functionalized block copolymers *Journal of Polymer Science Part A-Polymer Chemistry* 44 (6): 1941-1951, 2006
96. Wang, Dan; Ji, Wen-Xi; Li, Zi-Chen; Chen, Liwei. A Biomimetic "Polysoap" for Single-Walled Carbon Nanotube Dispersion. *Journal of the American Chemical Society* (2006), 128(20), 6556-6557.
97. Tomonari Y, Murakami H, Nakashima N. Solubilization of single-walled carbon nanotubes by using polycyclic aromatic ammonium amphiphiles in water - Strategy for the design of high-performance solubilizers *Chemistry-A European Journal* 12 (15): 4027-4034 MAY 15 2006

98. MAO Lei-lei, WANG Zong-hua, Advances in noncovalent functionalization of carbon nanotube Modern Chemical Industry, 2006, 26 (2), 29-32
99. Bottini M, Magrini A, Di Venere A, et al. Synthesis and characterization of supramolecular nanostructures of carbon nanotubes and ruthenium-complex luminophores Journal of Nanoscience and Nanotechnology 6 (5): 1381-1386 MAY 2006
100. Klumpp C, Kostarelos K, Prato M, et al. Functionalized carbon nanotubes as emerging nanovectors for the delivery of therapeutics Biochimica et Biophysica Acta-Biomembranes 1758 (3): 404-412 MAR 2006
101. Murakami, Tatsuya; Fan, Jing; Yudasaka, Masako; Iijima, Sumio; Shiba, Kiyotaka. Solubilization of Single-Wall Carbon Nanohorns Using a PEG-Doxorubicin Conjugate. Molecular Pharmaceutics ACS ASAP. CODEN: MPOHBP ISSN:1543-8384. AN 2006:632689 CAPLUS
102. Cheng FY, Adronov A Noncovalent functionalization and solubilization of carbon nanotubes by using a conjugated Zn-porphyrin polymer CHEMISTRY-A EUROPEAN JOURNAL 12 (19): 5053-5059 JUN 23 2006
103. Narimatsu, Kaori; Nishioka, Junichi; Murakami, Hiroto; Nakashima, Naotoshi. Design, synthesis, and characterization of carbon nanotube solubilizers carrying a reactive group. Chemistry Letters (2006), 35(8), 892-893.
104. Lee, Sang-Soo; Park, Hye-Jin; Kim, Junkyung. Novel dielectric behavior of nanocomposite of passivated carbon nanotube. PMSE Preprints (2006), 95 691-692.
105. Sgobba, Vito; Rahman, G. M. Aminur; Guldi, Dirk M.; Jux, Norbert; Campidelli, Stephane; Prato, Maurizio. Supramolecular assemblies of different carbon nanotubes for photoconversion processes. Advanced Materials (Weinheim, Germany) (2006), 18(17), 2264-2269.
106. Sluzarenko N, Heurtefeu B, Maugey M, et al. Diblock copolymer stabilization of multi-wall carbon nanotubes in organic solvents and their use in composites CARBON 44 (15): 3207-3212 DEC 2006
107. Nakashima N Solubilization of single-walled carbon nanotubes with condensed aromatic compounds SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS 7 (7): 609-616 OCT 2006
108. Wang, Zhimin; Liu, Qingchun; Zhu, Hui; Liu, Hanfan; Chen, Yongming; Yang, Mingshu. Dispersing multi-walled carbon nanotubes with water-soluble block copolymers and their use as supports for metal nanoparticles. Carbon (2007), 45(2), 285-292.
109. Gao, Chao; Muthukrishnan, Sharmila; Li, Wenwen; Yuan, Jiayin; Xu, Youyong; Mueller, Axel H. E. Linear and Hyperbranched Glycopolymer-Functionalized Carbon Nanotubes: Synthesis, Kinetics, and Characterization. Macromolecules (2007), 40(6), 1803-1815.
110. Pasini D, Ricci M Macrocycles as precursors for organic nanotubes CURRENT ORGANIC SYNTHESIS 4 (1): 59-80 FEB 2007
111. Lee, Jea Uk; Huh, June; Kim, Keon Hyeong; Park, Cheolmin; Jo, Won Ho. Aqueous suspension of carbon nanotubes via non-covalent functionalization with oligothiophene-terminated poly(ethylene glycol). Carbon (2007), 45(5), 1051-1057.
112. Nakashima, Naotoshi; Fujigaya, Tsuyohiko. Fundamentals and applications of soluble carbon nanotubes. Chemistry Letters (2007), 36(6), 692-697.
113. Alexandre, Michael; Dubois, Philippe. Nanocomposites. Macromolecular Engineering (2007), 4 2033-2070.
114. Homenick CM, Lawson G, Adronov A Polymer grafting of carbon nanotubes using living free-radical polymerization POLYMER REVIEWS 47 (2): 265-290 2007
115. Holder PG, Francis MB Integration of a self-assembling protein scaffold with water-soluble single-walled carbon nanotubes ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 46 (23): 4370-4373 2007
116. Li J, Qiu HD, Xu JJ, et al. The synergistic effect of Prussian-Blue-grafted carbon nanotube/poly(4-vinylpyridine) composites for amperometric sensing ADVANCED FUNCTIONAL MATERIALS 17 (9): 1574-1580 JUN 18 2007
117. Fan CL, Li W, Li X, et al. Efficient photo-assisted Fenton oxidation treatment of multi-walled carbon nanotubes CHINESE SCIENCE BULLETIN 52 (15): 2054-2062 AUG 2007
118. Park I, Park M, Kim J, et al. Multiwalled carbon nanotubes functionalized with PS via emulsion polymerization MACROMOLECULAR RESEARCH 15 (6): 498-505 OCT 2007
119. Fujigaya T, Nakashima N Solubilization of carbon nanotubes and their applications KOBUNSHI RONBUNSHU 64 (9): 539-552 2007
120. Mateo-Alonso A, Ehli C, Chen KH, et al. Dispersion of single-walled carbon nanotubes with an extended diazapentacene derivative JOURNAL OF PHYSICAL CHEMISTRY A 111 (49): 12669-12673 DEC 13 2007
121. Herranz MA, Ehli C, Campidelli S, et al. Spectroscopic characterization of photolytically generated radical ion pairs in single-wall carbon nanotubes bearing surface-immobilized tetrathiafulvalenes Journal of The American Chemical Society 130 (1): 66-73 JAN 9 2008
122. Ham HT, Choi YS, Chee MG, et al. PEDOT-PSS/singlewall carbon nanotubes composites Polymer Engineering and Science 48 (1) 1-10; 2008
123. Chen, G., Wright, P.M., Geng, J., Mantovani, G., Haddleton, D.M. Tunable thermoresponsive water-dispersed multiwalled carbon nanotubes Chemical Communications (9), pp. 1097-1099, 2008.
124. Xue CH, Shi MM, Yan QX, et al. Preparation of water-soluble multi-walled carbon nanotubes by polymer dispersant assisted exfoliation Nanotechnology 19 (11) Article Number: 115605, 2008
125. Ehli, C., Guldi, D.M., Ángeles Herranz, M., Martín, N., Campidelli, S., Prato, M. Pyrene-tetrathiafulvalene supramolecular assembly with different types of carbon nanotubes Journal of Materials Chemistry 18 (13), pp. 1498-1503, 2008



- 126.Xue, C.-H., Zhou, R.-J., Shi, M.-M., Gao, Y., Wu, G., Zhang, X.-B., Chen, H.-Z., Wang, M. The preparation of highly water-soluble multi-walled carbon nanotubes by irreversible noncovalent functionalization with a pyrene-carrying polymer Nanotechnology 19 (21), art. no. 215604, 2008
127. Yang UP, Pan CY Multi-walled carbon nanotubes using six-armed star poly(L-lactic acid) with a triphenylene core Macromolecular Chemistry and Physics 209 (8) 783-793, 2008
- 128.Park S, Yang HS, Kim D, et al. Rational design of amphiphilic polymers to make carbon nanotubes water-dispersible, anti-biofouling, and functionalizable Chemical Communications 25, 2876-2878, 2008
- 129.Fujigaya, T., Nakashima, N. Methodology for homogeneous dispersion of single-walled carbon nanotubes by physical modification Polymer Journal 40 (7), pp. 577-589, 2008
- 130.Pei, X., Xia, Y., Liu, W., Yu, B., Hao, J. Polyelectrolyte-grafted carbon nanotubes: Synthesis, reversible phase-transition behavior, and tribological properties as lubricant additives Journal of Polymer Science, Part A: Polymer Chemistry 2008, 46 (21), pp. 7225-7237
- 131.Yang, Q., Shuai, L., Zhou, J., Lu, F., Pan, X. Functionalization of multiwalled carbon nanotubes by pyrene-labeled hydroxypropyl cellulose Journal of Physical Chemistry B, 2008 112 (41), pp. 12934-12939
- 132.Choi, I.H., Park, M., Lee, S.-S., Hong, S.C. Pyrene-containing polystyrene segmented copolymer from nitroxide mediated polymerization and its application for the noncovalent functionalization of as-prepared multiwalled carbon nanotubes European Polymer Journal 44 (10), pp. 3087-3095, 2008
- 133.Xu, F.-M., Xu, J.-P., Ji, J., Shen, J.-C. A novel biomimetic polymer as amphiphilic surfactant for soluble and biocompatible carbon nanotubes (CNTs) Colloids and Surfaces B: Biointerfaces 67 (1), pp. 67-72, 2008
- 134.Cousins BG, Das AK, Sharma R, et al.Enzyme-Activated Surfactants for Dispersion of Carbon Nanotubes SMALL Volume: 5 Issue: 5 Pages: 587-590 Published: MAR 6 2009
135. Assali M, Leal MP, Fernandez I, et al. Non-covalent functionalization of carbon nanotubes with glycolipids: glyconanomaterials with specific lectin-affinity SOFT MATTER Volume: 5 Issue: 5 Pages: 948-950 Published: 2009
- 136.Gao Y, Shi MM, Zhou RJ, et al. Solvent-dependent fluorescence property of multi-walled carbon nanotubes noncovalently functionalized by pyrene-derivatized polymer NANOTECHNOLOGY Volume: 20 Issue: 13 Article Number: 135705 Published: APR 1 2009
- 137.Fu JW, Huang XB, Huang YW, et al. One-pot noncovalent method to functionalize multi-walled carbon nanotubes using cyclomatrix-type polyphosphazenes CHEMICAL COMMUNICATIONS Issue: 9 Pages: 1049-1051 Published: 2009
- 138.Kim KH, Jo WH Polythiophene-graft-PMMA as a Dispersing Agent for Multi-Walled Carbon Nanotubes in Organic Solvent Macromolecular Research Volume: 16 Issue: 8 Pages: 749-752 Published: DEC 2008
- 139.Pan B, Xing BS Adsorption Mechanisms of Organic Chemicals on Carbon Nanotubes Environmental Science & Technology Volume: 42 Issue: 24 Pages: 9005-9013 Published: DEC 15 2008
- 140.Pei XW, Xia YQ, Liu WM, et al. Polyelectrolyte-Grafted Carbon Nanotubes: Synthesis, Reversible Phase-Transition Behavior, and Tribological Properties as Lubricant Additives Journal of Polymer Science Part A-Polymer Chemistry Volume: 46 Issue: 21 Pages: 7225-7237 Published: NOV 1 2008
- 141.Stefopoulos AA, Pefkianakis EK, Papagelis K, et al. Carbon Nanotubes Decorated with Terpyridine-Ruthenium Complexes Journal of Polymer Science Part A-Polymer Chemistry Volume: 47 Issue: 10 Pages: 2551-2559 2009
- 142.Chen P, Kim HS, Jin HJ Preparation, Properties and Application of Polyamide/Carbon Nanotube Nanocomposites Macromolecular Research Volume: 17 Issue: 4 Pages: 207-217 Published: APR 2009
- 143.C Lamprecht, J Danzberger, P Lukanov, CM Tilmaciu et al. AFM imaging of functionalized double-walled carbon nanotubes Ultramicroscopy Volume 109, Issue 8, July 2009, Pages 899-906
- 144.Y Jui-Ming, H Kuan-Yeh, L Su-Yin, W Yu-Yao, H Chao et al. Noncovalent Interaction between Gold Nanoparticles and Multiwalled Carbon Nanotubes via an Intermediary Journal of Nanotechnology Volume 2009 (2009), Article ID 217469, 7 pages
- 145.Ling I, Alias Y, Makha M, et al. Water solubilisation of single-walled carbon nanotubes using p-sulfonatocalix[4]arene New Journal of Chemistry Volume: 33 Issue: 7 Pages: 1583-1587 Published: 2009
- 146.Morishita T, Matsushita M, Katagiri Y, et al. Synthesis and properties of macromer-grafted polymers for noncovalent functionalization of multiwalled carbon nanotubes CARBON Volume: 47 Issue: 11 Pages: 2716-2726 Published: SEP 2009
- 147.Liu CH, Liu YY, Zhang YH, et al. Tandem extraction strategy for separation of metallic and semiconducting SWCNTs using condensed benzenoid molecules: effects of molecular morphology and solvent Physical Chemistry Chemical Physics Volume: 11 Issue: 33 Pages: 7257-7267 Published: 2009
- 148.Li YN, Cousins BG, Ulijn RV, et al. A Study of the Dynamic Interaction of Surfactants with Graphite and Carbon Nanotubes using Fmoc-Amino Acids as a Model System Langmuir Volume: 25 Issue: 19 Pages: 11760-11767 Published: OCT 6 2009
- 149.Contreras-Torres, F.F., Ochoa-Olmos, O.E., Basiuk, E.V. Amine-functionalized multi-walled carbon nanotubes: An atomic force microscopy study Journal of Scanning Probe Microscopy 4 (2), pp. 100-106, 2009
- 150.Book: Krueger, A. in Strained Hydrocarbons: Beyond the Van't Hoff and Le Bel Hypothesis, Chapter 6 "Carbon nanotubes" pp.370 Eds. Helena Dodziuk – Wiley VCH 2009 (books.google.com)
- 151.Xu, L., Ye, Z., Cui, Q., Gu, Z. Noncovalent Nonspecific Functionalization and Solubilization of Multi-Walled Carbon Nanotubes at High Concentrations with a Hyperbranched Polyethylene Macromolecular Chemistry and Physics 210 (24): 2194-2202 (2010)

- 152.Li, G., Wang, H., Zheng, H., Bai, R. A facile approach for the fabrication of highly stable superhydrophobic cotton fabric with multi-walled carbon nanotubes-azide polymer composites *Langmuir* 26 (10): 7529-7534 (2010)
- 153.Bahun GJ, Adronov A Interactions of Carbon Nanotubes with Pyrene-Functionalized Linear-Dendritic Hybrid Polymers *Journal Of Polymer Science Part A-Polymer Chemistry* 48 (5): 1016-1028 (2010)
- 154.Morishita, T., Matsushita, M., Katagiri, Y., Fukumori, K. Noncovalent functionalization of carbon nanotubes with maleimide polymers applicable to high-melting polymer-based composites *Carbon* 48 (8): 2308-2316 (2010)
- 155.Book: Backes, K., Hirsch, A. in: *Chemistry of Nanocarbons*, Chapter 1" Noncovalent Functionalization of Carbon Nanotubes Eds. Takeshi Akasaka, Fred Wudl and Shigery Nagase - John Wiley and Sons 2010 (books.google.com)
- 156.Han, J., Kim, H., Kim, D.Y., Jo, S.M., Jang, S.-Y. Water-soluble polyelectrolyte-grafted multiwalled carbon nanotube thin films for efficient counter electrode of dye-sensitized solar cells *ACS Nano* 4 (6), pp. 3503-3509, 2010.
- 157.Yuan, J., Müller, A.H.E. One-dimensional organic-inorganic hybrid nanomaterials *Polymer* 51 (18), pp. 4015-4036, 2010.
- 158.Meyer, F., Raquez, J.-M., Coulembier, O., De Winter, J., Gerbaux, P., Dubois, P. Imidazolium end-functionalized poly(l-lactide) for efficient carbon nanotube dispersion *Chemical Communications* 46 (30), pp. 5527-5529, 2010.
- 159.Pan, B., Xing, B. *Manufactured Nanoparticles and their Sorption of Organic Chemicals* (book) *Advances in Agronomy* 108 (C), pp. 137-181, 2010.
- 160.O'Geen AT, Budd R, Gan J, et al. *Manufactured nanoparticles and their sorption of organic chemicals* *Advances in Agronomy*, Vol 108 Book Series: *Advances in Agronomy* Volume: 108 Pages: 137-181 Published: 2010
- 161.Bartelmess, J., Ballesteros, B., De La Torre, G., Kiessling, D., Campidelli, S., Prato, M., Torres, T., Guldi, D.M. Phthalocyanine-pyrene conjugates: A powerful approach toward carbon nanotube solar cells *Journal of the American Chemical Society* 132 (45), pp. 16202-16211, 2010
- 162.Hong, S.C., Shin, J.E., Choi, H.J., Gong, H.H., Kim, K., Park, N.-G. Prediction and evaluation of styrenic block copolymers as surface modifiers for multiwalled carbon nanotubes in  $\alpha$ -terpineol-based pastes *Industrial and Engineering Chemistry Research* 49 (22), pp. 11393-11401, 2010
- 163.Tan, S.H., Suk, K.L., Goak, J.C., Hong, S.C., Kim, J.-Y., Lee, S.-W., Kim, S., (...), Lee, N. Effect of poly(2-ethyl-2-oxazoline) on multi-walled carbon nanotubes reinforced poly(vinyl alcohol) composites *Polymers and Polymer Composites* 18 (5), pp. 251-256, 2010
- 164.Yi Zhang, Yuhong Bai, and Bing Yan Functionalized carbon nanotubes for potential medicinal applications *Drug Discovery Today* 15(11/12) 428-435, 2010.
- 165.Lopez AM, Mateo-Alonso A, Prato M Materials chemistry of fullerene C-60 derivatives *JOURNAL OF MATERIALS CHEMISTRY* Volume: 21 Issue: 5 Pages: 1305-1318 Published: 2011
- 166.Imin P, Cheng FY, Adronov A Supramolecular complexes of single walled carbon nanotubes with conjugated polymers *Polymer Chemistry* Volume: 2 Issue: 2 Pages: 411-416 Published: 2011
- 167.Hua J, Wang ZG, Zhao JA, et al. A Simple and Facile Approach to Synthesize Water-Soluble Multiwalled Carbon Nanotubes Wrapped by Poly(4-Vinylpyridine) *Journal of Macromolecular Science Part B-Physics* Volume: 50 Issue: 4 Pages: 679-687 Published: 2011
- 168.Dong B, Su YJ, Liu YH, et al. Dispersion of carbon nanotubes by carbazole-tailed amphiphilic imidazolium ionic liquids in aqueous solutions *Journal of Colloid and Interface Science* Volume: 356 Issue: 1 Pages: 190-195 Published: APR 1 2011
- 169.Vijayakumar C, Balan B, Kim MJ, et al. Noncovalent Functionalization of SWNTs with Azobenzene-Containing Polymers: Solubility, Stability, and Enhancement of Photoresponsive Properties *Journal of Physical Chemistry C* Volume: 115 Issue: 11 Pages: 4533-4539 Published: MAR 24 2011
- 170.Giambastiani G, Cicchi S, Giannasi A, et al. Functionalization of Multiwalled Carbon Nanotubes with Cyclic Nitrones for Materials and Composites: Addressing the Role of CNT Sidewall Defects *Chemistry of Materials* Volume: 23 Issue: 7 Pages: 1923-1938 Published: APR 12 2011
- 171.Lee SH, Lee DH, Lee WJ, et al. Tailored Assembly of Carbon Nanotubes and Graphene *Advanced Functional Materials* Volume: 21 Issue: 8 Pages: 1338-1354 Published: APR 22 2011
- 172.Hua J, Wang ZG, Zhao J, et al. A facile approach to synthesize poly(4-vinylpyridine)/multi-walled carbon nanotubes nanocomposites: highly water-dispersible carbon nanotubes decorated with gold nanoparticles *Colloid and Polymer Science* Volume: 289 Issue: 7 Pages: 783-789 2011
- 173.Gorur M, Yilmaz F, Kilic A, et al. Synthesis of Pyrene End-Capped A6 Dendrimer and Star Polymer with Phosphazene Core via "Click Chemistry" *Journal of Polymer Science Part A-Polymer Chemistry* Volume: 49 Issue: 14 Pages: 3193-3206 Published: JUL 15 2011
- 174.Abe, Shigeaki; Ishikawa, Kosuke; Hyono, Atsushi; Kobayashi, Hirohisa; Kiba, Takayuki; Akasaka, Tsukasa; Uo, Motohiro; Yawaka, Yasutaka; Sato, Shin-ichiro; Yonezawa, Tetsu; et al Observation of a 3D network nano-structure of carbon nanotubes scaffold for cultivation e-*Journal of Surface Science and Nanotechnology* (2011), 9, 80-84.
- 175.Morishita, Takuya; Matsushita, Mitumasa; Katagiri, Yoshihide; Fukumori, Kenzo Effects of the composition and molecular weight of maleimide polymers on the dispersibility of carbon nanotubes in chloroform *Carbon* (2011), 49(15), 5185-5195.
- 176.Backes, Claudia; Hirsch, Andreas Noncovalent functionalization of carbon nanotubes Edited by Akasaka, Takeshi; Wudl, Fred; Nagase, Shigeru *Chemistry of Nanocarbons* (2010), 1-48.

- 177.Fujigaya, Tsuyohiko; Nakashima, Naotoshi Chemistry of soluble carbon nanotubes: fundamentals and applications Edited by Akasaka, Takeshi; Wudl, Fred; Nagase, Shigeru Chemistry of Nanocarbons (2010), 301-331.
- 178.Li, C., Yang, K., Zhang, Y., Tang, H., Yan, F., Tan, L., Xie, Q., Yao, S. Highly biocompatible multi-walled carbon nanotube-chitosan nanoparticle hybrids as protein carriers Acta Biomaterialia 2011,7 (8) , 3070-3077
- 179.Yan, Y., Yang, S., Cui, J., Jakisch, L., Pötschke, P., Voit, B. Highly biocompatible multi-walled carbon nanotube-chitosan nanoparticle hybrids as protein carriers Polymer International 2011, 60 (10), 1425-1433
- 180.Li, C., Zhao, Q., Deng, H., Chen, C., Wang, K., Zhang, Q., Chen, F., Fu, Q. Preparation, structure and properties of thermoplastic olefin nanocomposites containing functionalized carbon nanotubes Polymer International 2011, 60 (11), 1629-1637
- 181.C. Lamprecht, A. Ebner, F. Kienberger, P. Hinterdorfer, Exploring Carbon Nanotubes and Their Interaction with Cells Using Atomic Force Microscopy In: Carbon Nanotubes for Biomedical Applications, Eds. Rüdiger Klingeler and Robert B. Sim, Springer-Verlag Berlin Heidelberg, p.153, 2011.
- 182.Soll, Sebastian; Antonietti, Markus; Yuan, Jiayin Double Stimuli-Responsive Copolymer Stabilizers for Multiwalled Carbon Nanotubes ACS Macro Letters, 1 (1): 84-87 (2012)
- 183.Jing Li; Liang Cong; Shi Xinhao; et al. Fluorescent probe for Fe(III) based on pyrene grafted multiwalled carbon nanotubes by click reaction ANALYST 137 (7) 1718-1722 (2012)
- 184.Lin Hsiao-Chu; Straus Daniel A.; Johnson Victoria Anne; et al. Preparation and electrochemistry of a pyrene-linked iron terpyridine and its anodic redox polymer Electrochimica Acta 62, 140-146 (2012)
- 185.Fujigaya Tsuyohiko; Nakashima Naotoshi Soluble Carbon Nanotubes and Nanotube-Polymer Composites Journal of Nanoscience And Nanotechnology 12 (3) 1717-1738 (2012)
- 186.Karabanova Lyudmyla V.; Whitby Raymond L. D.; Korobeinyk Alina; et al. Microstructure changes of polyurethane by inclusion of chemically modified carbon nanotubes at low filler contents Composites Science and Technology 72 (8) 865-872 (2012)
- 187.Salmi Zakaria; Gam-Derouich Sarra; Mahouche-Chergui Samia; et al. On the interfacial chemistry of aryl diazonium compounds in polymer science Chemical Papers 66 (5) 369-391 (2012)
- 188.Li Huayang; Wu Jie; Jeilani Yassin A.; et al. Modification of multiwall carbon nanotubes with ruthenium(II) terpyridine complex Journal of Nanoparticle Research 14 (6) Article Number: 847 (2012)
- 189.Durmaz Hakan; Dag Aydan; Tunca Umit; et al. Synthesis and characterization of pyrene bearing amphiphilic miktoarm star polymer and its noncovalent interactions with multiwalled carbon nanotubes Journal of Polymer Science Part A-Polymer Chemistry 50 (12) 2406-2414 (2012)
- 190.Laura Maggini , Tomas Marangoni , Benoit Georges , Joanna M. Malicka , K. Yoosaf , Andrea Minoia , Roberto Lazzaroni , Nicola Armadori and Davide Bonifazi Azobenzene-based supramolecular polymers for processing MWCNTs Nanoscale, 2013,5, 634-645
- 191.HJ Choi, HH Gong, JY Park, SC Hong Characteristics of dye-sensitized solar cells with surface-modified multi-walled carbon nanotubes as counter electrodes Journal of Materials Science, 2013, 48(2), 906-912
- 192.X Huang, J Chen, H Yu, R Cai, S Peng, Q Yan, H Hoon Hng, Carbon buffered-transition metal oxide nanoparticle-graphene hybrid nanosheets as high-performance anode materials for lithium ion batteries, J. Mater. Chem. A, 2013,1, 6901-6907
- 193.BOOK: Wei Shao, Paul Arghya, Mai Yiyong, Laetitia Rodes and Satya Prakash, Chapter 13: Carbon Nanotubes for Use in Medicine: Potentials and Limitations in "Syntheses and Applications of Carbon Nanotubes and Their Composites" edited by Satoru Suzuki
- 194.A Skender, A Hadj-Ziane-Zafour, E Flahaut, Chemical Functionalisation of Xanthan gum for the Dispersion of Double-Walled Carbon Nanotubes in Water Carbon, 2013, 62, 149-156
- 195.M. Arenaza, J. R. Sarasua, H. Amestoy, N. Lopez-Rodriguez, E. Zuza, E. Meaurio, F. Meyer, J. I. Santos, J.-M. Raquez, P. Dubois, Polylactide stereocomplex crystallization prompted by multiwall carbon nanotubes, Journal of Applied Polymer Science,130(6), 4327-4337, (2013)
- 196.Huang, X., Chen, J., Yu, H., Peng, S., Cai, R., Yan, Q., Hng, H.H. Immobilization of plant polyphenol stabilized-Sn nanoparticles onto carbon nanotubes and their application in rechargeable lithium ion batteries RSC Advances 2013, 3 (16), 5310-5313
- 197.Yu Zhang, Zhi Xia, Hong Liu, Mingjian Yang, Longli Lin, Qianzhu Li, Hemin-graphene oxide-pristine carbon nanotubes complexes with intrinsic peroxidase-like activity for the detection of H2O2 and simultaneous determination for Trp, AA, DA, and UA, Sensors and Actuators B: Chemical, 2013, 188, 496-501
198. R. A. Ahmeda, A. M. Fekryc, R.A. Farghalia, A study of calcium carbonate/multiwalled-carbon nanotubes/chitosan composite coatings on Ti-6Al-4V alloy for orthopedic implants, Applied Surface Science, 2013, 285, Part B, 309-316
- 199.Cohen, E., Dodiuk, H., Ophir, A., Kenig, S., Barry, C., Mead, J. Evidences for  $\pi$ -interactions between pyridine modified copolymer and carbon nanotubes and its role as a compatibilizer in poly(methyl methacrylate) composites Composites Science and Technology 2013, 79 , pp. 133-139
- 200.Adeli, M., Soleyman, R., Beiranvand, Z., Madani, F. Carbon nanotubes in cancer therapy: A more precise look at the role of carbon nanotube-polymer interactions Chemical Society Reviews 2013, 42 (12), 5231-5256
- 201.Cohen, E., Ophir, A., Kenig, S., Barry, C., Mead, J. Pyridine-modified polymer as a non-covalent compatibilizer for multi-walled CNT/poly[ethylene-co-(methacrylic acid)] composites fabricated by direct melt mixing Macromolecular Materials and Engineering 2013, 298 (4) , pp. 419-428



- 202.M. Mohamed, M. Tripathy, A. A. Majeed, Studies on the thermodynamics and solute-solvent interaction of Polyvinyl pyrrolidone wrapped single walled carbon nanotubes (PVP-SWNTs) in water over temperature range 298.15–313.15 K, *Arabian Journal of Chemistry*, Available online 28 June 2013
- 203.K. Saeedfar, L. Y. Heng, T. L. Ling and M. Rezayi, Potentiometric Urea Biosensor Based on an Immobilised Fullerene-Urease Bio-Conjugate, *Sensors* 2013, 13, 16851-16866
- 204.BOOK: A. Kukocecz, G. Kozma, Z. Konya, 5. Multi-walled carbon nanotubes 5.2. Chemistry of MWCNTs, Springer Handbook of Nanomaterials edited by Robert Vajtai, Springer-Verlag Berlin Heidelberg p.174, 2013
- 205.J Liu, HQ Yu Thermoelectric Enhancement in Polyaniline Composites with Polypyrrole-Functionalized Multiwall Carbon Nanotubes *Journal of Electronic Materials*, 2014, 43 (4), pp. 1181-1187
- 206.X. Tu, X. H. Chen, Q. L. Hou Facile and Green Method for Fabrication of Polystyrene/Multi-Walled Carbon Nanotube Composites with Covalent Functionalization *Applied Mechanics and Materials* 2014, Volumes 490 – 491, 99-103
- 207.Bilalis, P., Katsigiannopoulos, D., Avgeropoulos, A., Sakellariou, G. Non-covalent functionalization of carbon nanotubes with polymers *RSC Advances* 2014,4, 2911-2934
- 208.Nguendia, J.Z., Zhong, W., Fleury, A., Sabat, R.G., Claverie, J.P. Supramolecular complexes of multivalent cholesterol-containing polymers to solubilize carbon nanotubes in apolar organic solvents *Chemistry - An Asian Journal* 9(5), 1356–1364, 2014
209. Gong, H.H., Hong, S.B., Hong, S.C. Dispersion controlled platinum/multi-walled carbon nanotube hybrid for counter electrodes of dye-sensitized solar cells *Macromolecular Research*, 22(4) 397-404, 2014
- 210.Spring, A.M., Estrada, L.A., Vasilyeva, S.V., Rinzler, A.G., Reynolds, J.R Carbon nanotube adsorptive materials derived from acid degradable poly(acetals) *Macromolecules* 2014, 47 (8), 2556–2560
- 211.X. Wang, J. Fu, M. Wang, Y. Wang, Z. Chen, J. Zhang, J. Chen, Q. Xu Facile synthesis of Au nanoparticles supported on polyphosphazene functionalized carbon nanotubes for catalytic reduction of 4-nitrophenol *Journal of Materials Science* 2014, 49, (14), pp 5056-5065
- 212.Ryu, J., Han, M. Improvement of the mechanical and electrical properties of polyamide 6 nanocomposites by non-covalent functionalization of multi-walled carbon nanotubes *Composites Science and Technology* 2014, 102, 169-175.
- 213.Book: M Huskić - 4.4.2 Nekovalentna modifikacija ogljikovih nanocevk, In: Hibridni materiali in polimerni nanokompoziti, 2014, p.80
- 214.Tsuyohiko Fujigaya and Naotoshi Nakashima Non-covalent polymer wrapping of carbon nanotubes and the role of wrapped polymers as functional dispersants *Sci. Technol. Adv. Mater.* 2015, 16, 024802 doi:10.1088/1468-6996/16/2/024802
- 215.M Galimberti, V Barbera, A Citterio, R Sebastiano, A Truscetto, A M Valerio, L Conzatti, R Mendichi Supramolecular interactions of carbon nanotubes with biosourced polyurethanes from 2-(2, 5-dimethyl-1H-pyrrol-1-yl)-1, 3-propanediol, *Polymer*, 2015, 63, 62–70
- 216.K Umemura, Hybrids of Nucleic Acids and Carbon Nanotubes for Nanobiotechnology, *Nanomaterials* 2015, 5(1), 321-350
- 217.G Hong, S Diao, AL Antaris, H Dai Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy, *Chemical reviews*, 115, 10816–10906, 2015
- 218.T Fujigaya, N Nakashima , Non-covalent polymer wrapping of carbon nanotubes and the role of wrapped polymers as functional dispersants. *Science and Technology of Advanced Materials*, 16 (2015) 024802
- 219.Takuya Morishita, Kenzo Fukumori, Mitsumasa Matsushita, Yoshihide Katagiri, Nanocomposite and dispersion comprising the same, US 9150414 B2, Oct 6, 2015.
- 220.Ghosh S, Patel N, Chakrabarti R, Probing the Salt Concentration Dependent Nucleobase Distributions in a Single Stranded DNA-Single-Walled Carbon Nanotube Hybrid with Molecular Dynamics. *J. Phys. Chem. B*, 2016, 120 (3), pp 455–466
- 221.Chang HC, Wang JT, Li DH, Lu C, Hsu HW, Wu HC, Liu CL, Chen WC Conjugated fluorene-moiety-containing pendant polymers for the dispersion of single-wall carbon nanotubes: polymer wrapping abilities and electrical properties. *Polymer Journal*, 2016, 48, 421–429.
- 222.Zheng Deng, Li Wang, Haojie Yu, Xiaoting Zhaia and Yongsheng Chena, Non-covalent dispersion of multi-walled carbon nanotubes in aqueous solution with hyperbranched polyethylene-g-poly(methacrylic acid). *RSC Adv.*, 2016,6, 27682-27689
- 223.Jeong, S.P., Boyle, C.J., Venkataraman, D. Poly(methyl methacrylate) end-functionalized with hexabenzocoronene as an effective dispersant for multi-walled carbon nanotubes, *RSC Advances*, 2016, 6 (8), pp. 6107-6110
- 224.SY An, S Sun, JK Oh Reduction-Responsive Sheddable Carbon Nanotubes Dispersed in Aqueous Solution. *Macromolecular rapid communications*, 2016, 37 (8), pp. 705-710
- 225.R Alshehri, A M Ilyas, A Hasan, A Arnaout, F Ahmed, and A Memic, Carbon Nanotubes in Biomedical Applications: Factors, Mechanisms, and Remedies of Toxicity. *J. Med. Chem.*, 2016, 59(18)pp.8149-8167
- 226.A T Yousefi, H Tanaka, S Bagheri Enhancement of glucose oxide electron-transfer mechanism in glucose biosensor via optimum physical chemistry of functionalized carbon nanotubes, *Reviews in Chemical Engineering*, 2016
- 227.X. Lin, A. Clasky, K. Lai, L. Yang, Chapter 3: Carbon-based nano biomaterials: design, fabrication and application, In: *Biomedical nanomaterials: from design to implementation*, Eds. T J Webster and H Yazici, 2016, pp. 49-90
- 228.BOOK: B Pan, B Xing, Adsorption of Organic Compounds by Engineered Nanoparticles in *Engineered Nanoparticles and the Environment: Biophysicochemical Processes and Toxicity*, Eds. B Xing, N Senesi, C D Vecitis, 2016, p.160-181.

229. Muratsugu, S., Miyamoto, S., Sakamoto, K., Ichihashi, K., Kim, C.K., Ishiguro, N., Tada, M., Size Regulation and Stability Enhancement of Pt Nanoparticle Catalyst via Polypyrrole Functionalization of Carbon-Nanotube-Supported Pt Tetranuclear Complex, *Langmuir*, 2017, 33 (39), pp. 10271-10282.
230. Wang, Y., Liu, M., Liu, T., Lu, D., Sun, Y., Zhang, H., Jiang, Z., Pyrene-functionalized PAEKs prepared from C-H borylation and Suzuki coupling reactions for the dispersion of single-walled carbon nanotubes *Composites Science and Technology*, 2017, 143, pp. 82-88.
231. Mohamed, M., Tripathy, M., Majeed, A.A., Studies on the thermodynamics and solute-solvent interaction of Polyvinyl pyrrolidone wrapped single walled carbon nanotubes (PVP-SWNTs) in water over temperature range 298.15–313.15 K, *Arabian Journal of Chemistry*, 2017, 10, pp.
232. Termehyousefi, A., Tanaka, H., Bagheri, S., Enhancement of glucose oxide electron-transfer mechanism in glucose biosensor via optimum physical chemistry of functionalized carbon nanotubes, *Reviews in Chemical Engineering*, 2017, 33 (2), pp. 201-215.
233. Lettieri, S., Camisasca, A., D'Amora, M., Diaspro, A., Uchida, T., Nakajima, Y., Yanagisawa, K., Maekawa, T., Giordani, S., Far-red fluorescent carbon nano-onions as a biocompatible platform for cellular imaging, *RSC Advances*, 2017, 7 (72), pp. 45676-45681.
234. Meran, M., Akkus, P.D., Kurkcuoglu, O., Baysak, E., Hizal, G., Haciosmanoglu, E., Unlu, A., Karatepe, N., Güner, F.S., Noncovalent Pyrene-Polyethylene Glycol Coatings of Carbon Nanotubes Achieve in Vitro Biocompatibility, *Langmuir*, 2018, 34 (40), pp. 12071-12082.
235. Migliore, N., Polgar, L.M., Araya-Hermosilla, R., Picchioni, F., Raffa, P., Pucci, A., Effect of the polyketone aromatic pendent groups on the electrical conductivity of the derived MWCNTs-based nanocomposites, *Polymers*, 2018, 8 (6), art. no. 618, .
236. Kondrashov, S.V., Soldatov, M.A., Gunyaeva, A.G., Shashkeev, K.A., Komarova, O.A., Barinov, D.Y., Yurkov, G.Y., Shevchenko, V.G., Muzafarov, A.M., The use of noncovalently modified carbon nanotubes for preparation of hybrid polymeric composite materials with electrically conductive and lightning resistant properties, *Journal of Applied Polymer Science*, 2018, 135 (16), art. no. 46108, .
237. Omurtag, P.S., Alkan, B., Durmaz, H., Hizal, G., Tunca, U., Indirect functionalization of multiwalled carbon nano tubes through non-covalent interaction of functional polyesters, *Polymer*, 2018, 141, pp. 213-220.
238. Baysak, E., Yuvayapan, S., Aydogan, A., Hizal, G. Calix[4]pyrrole-decorated carbon nanotubes on paper for sensing acetone vapor, *Sensors and Actuators, B: Chemical*, 2018, 258, pp. 484-491.
239. Moghaddam, S.E., Hernández-Rivera, M., Zaiqab, N.G., Ajala, A., Da Graça Cabreira-Hansen, M., Mowlazadeh-Haghighi, S., Willerson, J.T., Perin, E.C., Muthupillai, R., Wilson, L.J., A New High-Performance Gadonanotube-Polymer Hybrid Material for Stem Cell Labeling and Tracking by MRI, *Contrast Media and Molecular Imaging*, 2018, art. no. 2853736,
240. Termehyousefi, A., Background of the study, *Springer Series in Materials Science*, 2018, 259, pp. 13-37.
241. Blaudeck, T., Preuß, A., Scharf, S., Notz, S., Kossmann, A., Hartmann, S., Kasper, L., Mendes, R.G.,
242. Gemming, T., Hermann, S., Lang, H., Schulz, S.E. Photosensitive Field-Effect Transistors Made from Semiconducting Carbon Nanotubes and Non-Covalently Attached Gold Nanoparticles, *Physica Status Solidi (A) Applications and Materials Science*, 2019, 216 (19), art. no. 1900030, .
243. Chen, Y., Liu, X., Guo, S., Cao, J., Zhou, J., Zuo, J., Bai, L., A sandwich-type electrochemical aptasensor for Mycobacterium tuberculosis MP64 antigen detection using C60NPs decorated N-CNTs/GO nanocomposite coupled with conductive PEI-functionalized metal-organic framework, *Biomaterials*, 2019, 216, art. no. 119253
244. Di Sacco, F., Pucci, A., Raffa, P., Versatile multi-functional block copolymers made by atom transfer radical polymerization and post-synthetic modification: Switching from volatile organic compound sensors to polymeric surfactants for water rheology control via hydrolysis, *Nanomaterials*, 2019, 9 (3), art. no. 458.
245. Di Leone, S., Di Leone, S., Avsar, S.Y., Belluati, A., Wehr, R., Palivan, C.G., Meier, W., Polymer-Lipid Hybrid Membranes as a Model Platform to Drive Membrane-Cytochrome c Interaction and Peroxidase-like Activity, *Journal of Physical Chemistry B*, 2020, 124 (22), pp. 4454-4465.
246. Wang, Y., Zhang, Q., Liu, M., Zhang, Q., Zhang, H., Jiang, Z., The performances of modified single-walled carbon nanotubes/poly(ether ether ketone) composites prepared by solution blending and melt blending, *High Performance Polymers*, 2020, 32 (3), pp. 276-285.
247. Abousalman-Rezvani, Z., Eskandari, P., Roghani-Mamaqani, H., Salami-Kalajahi, M., Functionalization of carbon nanotubes by combination of controlled radical polymerization and “grafting to” method, *Advances in Colloid and Interface Science*, 2020, 278, art. no. 102126.
248. Demirel, E., Karaca, E., Yuksel Durmaz, Y., Effective PEGylation method to improve biocompatibility of graphene derivatives, *European Polymer Journal*, 2020, 124, art. no. 109504.
249. Wang, Y., Meng, F., Huang, F., Li, Y., Tian, X., Mei, Y., Zhou, Z., Ultrastrong Carbon Nanotubes/Graphene Papers via Multiple  $\pi$ cross-Linking, *ACS Applied Materials and Interfaces*, 2020, 12 (42), pp. 47811-47819.
250. Elakia, M., Gobinath, M., Sivalingam, Y., Palani, E., Ghosh, S., Nutalapati, V., Surya, V.J., Investigation on visible light assisted gas sensing ability of multi-walled carbon nanotubes coated with pyrene based organic molecules, *Physica E: Low-Dimensional Systems and Nanostructures*, 2020, 124, art. no. 114232, .
251. Ravi Kiran, A.V.V.V., Kusuma Kumari, G., Krishnamurthy, P.T., Carbon nanotubes in drug delivery: Focus on anticancer therapies, *Journal of Drug Delivery Science and Technology*, 2020, 59, art. no. 101892

252. Francis, A. A., Abdel-Gawad, S. A., & Shoeib, M. A. Toward CNT-reinforced chitosan-based ceramic composite coatings on biodegradable magnesium for surgical implants. *Journal of Coatings Technology and Research*, 2021, 18(4), 971-988
  253. Dhinakaran Veeman, M. Varsha Shree, P. Sureshkumar, T. Jagadeesha, L. Natrayan, M. Ravichandran, Prabhu Paramasivam, "Sustainable Development of Carbon Nanocomposites: Synthesis and Classification for Environmental Remediation", *Journal of Nanomaterials*, vol. 2021, Article ID 5840645, 21 pages, 2021.
  254. Kumar, V., & Kumar, H. (2021). Functionalized Carbon Nanomaterials for Impending Pharmaceutical Applications: A Green and Sustainable Vision. *Environmental Applications of Carbon Nanomaterials-Based Devices*, 423-438.
  255. Yenyurt, Yesim, Sila Kilic, Ö. Zeynep Güner-Yılmaz, Serdar Bozoglu, Mehdi Meran, Elif Baysak, Ozge Kurkcuglu et al. "Fmoc-PEG Coated Single-Wall Carbon Nanotube Carriers by Non-covalent Functionalization: An Experimental and Molecular Dynamics Study." *Frontiers in Bioengineering and Biotechnology* 9 (2021): 397.
  256. Mallakpour, Shadpour, and Chaudery M. Hussain, eds. "Environmental Applications of Carbon Nanomaterials-Based Devices." (2021).
  257. Ganesh Kumar, Baskaran, P. PonSathieshkumar, and K. S. Prakash. "Fundamental of Functionalized Carbon Nanomaterials for Environmental Devices and Techniques." *Environmental Applications of Carbon Nanomaterials-Based Devices* (2021): 197-226.
  258. Di Leone, Stefano. "Hybrid biomimetic platforms based on amphiphilic block copolymers." PhD diss., University of Basel, 2021.
  259. Mondal, Subrata. "Carbon nanotube-reinforced polymer nanocomposite for biomedical applications." In *Green Biocomposites for Biomedical Engineering*, pp. 265-283. Woodhead Publishing, 2021.
  260. Ackermann, J., Metternich, J.T., Herbertz, S., Kruss, S., *Biosensing with Fluorescent Carbon Nanotubes*, (2022) *Angewandte Chemie - International Edition*, 61 (18), art. no. e202112372, .
  261. Roghani-Mamaqani, H. and Mardani, H., Types of Surface Modifications of Carbon Nanotubes, In *Surface Modified Carbon Nanotubes Volume 1: Fundamentals, Synthesis and Recent Trends*, Eds. Jeenat Aslam, Chaudhery Mustansar Hussain, Ruby Aslam, ACS Symposium Series, Vol. 1424, chapter 4, pp 67-90, 2022
  262. Giri, P.M.; Banerjee, A.; Layek, B. A Recent Review on Cancer Nanomedicine. *Cancers* 2023, 15, 2256.
  263. Shen, P., Jiang, Z., Viktorova, J., Pollard, B., Kumar, A., Stachurski, Z., & Connal, L. A. Conductive and Self-Healing Carbon Nanotube-Polymer Composites for Mechanically Strong Smart Materials. *ACS Applied Nano Materials*, 2023, 6(2), 986-994.
  264. Fernando, P.A.I., Kosgei, G.K., Schutt, T., Jenness, G., Chen, C.H., George, G.W., Kimble, A.N., Nelson, W.M., Henderson, D.L. and Moores, L.C., Synthesis, photochemical properties, and computational analysis of a pyrene-benzimidazole bipodal molecular scaffold for pH and perchlorate sensing. *Journal of Photochemistry and Photobiology A: Chemistry*, 2023, 439, p.114588.
  265. Suresh, I., Nesakumar, N., Rayappan, J.B.B. and Kulandaisamy, A.J., Recent advances in the synthesis and functionalization of carbon-based functional nanomaterials. *Antiviral and Antimicrobial Coatings Based on Functionalized Nanomaterials*, 2023, pp.33-77.
  266. Alosime, E.M., A review on surface functionalization of carbon nanotubes: methods and applications. *Discover Nano*, 2023, 18(1), p.12.
  267. Tyagi, S., Rajput, P., Sinha, A., Pramanik, A., Chaubey, K.K., Jayaraman, S., Shrivastva, C., Kumar, A., Verma, D.K., Yadav, S. and Dayal, D., Development Strategies and Prospects of Carbon Nanotube as Heavy Metal Adsorbent. In *Nanomaterials for Environmental and Agricultural Sectors 2023*, pp. 59-81. Singapore: Springer Nature Singapore.
  268. Rezazade, M., Ketabi, S. and Qomi, M., 2024. Effect of functionalization on the adsorption performance of carbon nanotube as a drug delivery system for imatinib: molecular simulation study. *BMC chemistry*, 18(1), p.85.
- Petrov, P; Jankova, K; Mateva, R. Polyamide-6-b-polybutadiene block copolymers: Synthesis and properties. *Journal of Applied Polymer Science* (2003), 89(3), 711-717.
269. Li, Yulin; Yang, Guisheng. Studies on molecular composites of polyamide 6/polyamide 66. *Macromolecular Rapid Communications* (2004), 25(19), 1714-1718.
  270. Pillay S, Vaidya UK, Janowski GM Liquid molding of carbon fabric-reinforced nylon matrix composite laminates *Journal of Thermoplastic Composite Materials* 18 (6): 509-527 2005
  271. Encyclopedia of Chemical Processing - Edt. Sunggyu Lee, Lee Lee - 2005 – pp. 2272
  272. Hou LL, Liu HZ, Yang GS. A novel approach to the preparation of thermoplastic polyurethane elastomer and polyamide 6 blends by in situ anionic ring-opening polymerization of epsilon-caprolactam *Polymer International* 55 (6): 643-649 JUN 2006
  273. Hou, Lianlong; Liu, Hongzhi; Yang, Guisheng; Hou, Lianlong; Liu, Hongzhi; Yang, Guisheng. Preparation and characterization of thermoplastic polyurethane elastomer and polyamide 6 blends by in situ anionic ring-opening polymerization of epsilon-caprolactam. *Polymer Engineering and Science* (2006), 46(9), 1196-1203.
  274. Feng Decai, Yang Qi, Bai Yanchao, Zhu Yongping, Gao Yan Effects of Content of Initiator and Activator on the Properties of Monomer Cast Nylon *Plastics Science and Technology* (2006) 34 (4), 18-22.
  275. Bui Tien Dung "New segmented block copolymers based on hard and soft segments using selectively reacting bifunctional coupling agents" PhD Theses - Dresden, Techn. Univ., 2007
  276. Book: Roda, J. in: Handbook of ring-opening polymerization, Chapter 7 "Polyamides" pp.185 Eds, Philippe Dubois, Olivier Coulembier, Jean-Marie Raquez – Wiley-VCH 2009 (books.google.com)

- 277.Porubska M, Skerlikova D, Chodak I Optimization of the method of crosslinked portion determination in irradiated polyamide-6 Polymer Testing 29 (2): 196-199 (2010)
  - 278.Wang, S.-B., Liu, H.-T., Ge, S.-R., Song, X.-Y. Study of friction and wear behavior of MC nylon filled with wollastonite Zhongguo Kuangye Daxue Xuebao/Journal of China University of Mining and Technology 39 (5), pp. 723-727, 2010.
  - 279.Porubska, Maria; Cervinkova, Danica; Chodak, Ivan On gel determination in PA6-glass fiber composites Polymer Testing (2011), 30(5), 472-477.
  - 280.Book: Russo, S., Casazza, E. Ring-Opening Polymerization of Cyclic Amides (Lactams) Polymer Science: A Comprehensive Reference, 2012, 10(4), 331-396
  281. S Xu, L Ye Preparation and properties of monomer casting nylon-6/PEO blend prepared via in situ polymerization Polymer Engineering & Science, 2015, 55(3), 589-597
  - 282.S Xu, L Ye, Monomer casting nylon-6-b-polyether amine copolymers: Synthesis and properties, Composites Part B: Engineering, 2015, 79, 170-181
  - 283.Book: S Carloti, F Peruch, Cyclic Monomers: Epoxides, Lactide, Lactones, Lactams, Cyclic Silicon-Containing Monomers, Cyclic Carbonates, and Others, In: Anionic Polymerization: Principles, Practice, Strength, Consequences and Application, edited by Nikos Hadjichristidis, Akira Hirao 2015, p.191
  - 284.P Krastev, Thermomechanical properties of polyamide-6/polypropylene glycol copolymers with mineral additives, Bulgarian Chemical Communications, 2016, 48, (1), 114 -119
  - 285.Xu, S., Wang, Z., Liu, L., Zhang, S., Cao, M., Respective Contribution Research of Soft Component and Macroinitiator on Synthesis and Performance of MCPA-PEA Materials, Polymer Engineering and Science, 2018, 58(8), pp. 1353-1361
  - 286.Brahma, S., Patel, V., Pillay, S., Ning, H., Thomas, V., Characterization of discontinuous carbon fiber liquid molded PA-6 composites via strategic placement of additional reinforcements, Journal of Reinforced Plastics and Composites, 2018, 37(22), pp. 1335-1345
  - 287.Ying, J., Wang, W., Peng, X., Zhang, S., Wang, J., Preparation of Monomer Casting Nylon-6-b-Polydimethylsiloxane Copolymers with Enhanced Mechanical and Surface Properties, Polymer - Plastics Technology and Engineering, 2018, 57(16), pp. 1634-1641
  - 288.Liu, L., Xu, S., Ye, L., Mei, W., Gu, W., Preparation of High-Toughness Polyamide 6-Polyether Amine Materials and Effect of Composition Method on Structure and Properties, Polymeric Materials Science and Engineering, 2019, 35(4), pp. 166-173
  - 289.Liu, Y., Ye, L., Zhao, X., Reactive toughening of intrinsic flame retardant urea-formaldehyde foam with polyether amine: Structure and elastic deformation mechanism, Composites Part B: Engineering, 2019, 176,107264
  - 290.Zhao, H., Zhang, D., Li, Y., Morphology and crystallization kinetics of Rubber-modified Nylon 6 Prepared by Anionic In-situ Polymerization, Science and Engineering of Composite Materials, 2020, 27(1), pp. 204-215
  - 291.Brahma, S., Pillay, S., Ning, H., Comparison and characterization of discontinuous carbon fiber liquid-molded nylon to hydroentanglement/compression-molded composites, Journal of Thermoplastic Composite Materials, 2020, 33(8), pp. 1078-1093
  - 292.Pineau, Quentin. "Block copolymer for protecting parts made from metal." U.S. Patent 10,927,265, issued February 23, 2021.
  - 293.Rigo, Sebastien, and Quentin Pineau. "Reinforced product comprising a self-adhesive composite reinforcement containing a block copolymer." U.S. Patent No. 11,318,792. 2022.
- Petrov, P.; Lou, X.; Pagnouille, C.; Jerome, C.; Calberg, C.; Jerome, R. Functionalization of multi-walled carbon nanotubes by electrografting of polyacrylonitrile. Macromolecular Rapid Communications (2004), 25(10), 987-990.
- 294.Park SJ, Cho MS, Lim ST, et al. Electrorheology of multiwalled carbon nanotube/poly(methyl methacrylate) nanocomposites Macromolecular Rapid Communications (2005) 26 (19): 1563-1566
  - 295.Wildgoose, G.G., Banks, C.E., Leventis, H.C., Compton, R.G. Chemically modified carbon nanotubes for use in electroanalysis Microchimica Acta (2006)152,187-214
  - 296.Chen, S., Wu, G., Liu, Y., Long, D. Preparation of poly(acrylic acid) grafted multiwalled carbon nanotubes by a two-step irradiation technique Macromolecules 2006 39 (1), 330-334
  - 297.Tasis, Dimitrios; Tagmatarchis, Nikos; Bianco, Alberto; Prato, Maurizio. Chemistry of Carbon Nanotubes. Chemical Reviews (2006), 106(3), 1105-1136.
  298. Defever, T.; Deniau, G.; Palacin, S.; Goux-capes, L.; Barrau, S.; Mayne-l'hermite, M.; Bourgoin, J.-P. Cathodic electropolymerization on the surface of carbon nanotubes. Journal of Electroanalytical Chemistry (2006), 589(1), 46-51.
  - 299.Chae HG, Minus ML, Kumar S Oriented and exfoliated single wall carbon nanotubes in polyacrylonitrile POLYMER 47 (10): 3494-3504 MAY 3 2006
  - 300.Xu, Hangxun; Wang, Xingbo; Zhang, Yanfeng; Liu, Shiyong. Single-Step in Situ Preparation of Polymer-Grafted Multi-Walled Carbon Nanotube Composites under 60Co g-Ray Irradiation.Chemistry of Materials (2006), 18(13), 2929-2934.
  - 301.Nastase, Claudia; Nastase, F.; Vaseashta, A.; Stamatin, Ioan. Nanocomposites based on functionalized nanotubes in polyaniline matrix by plasma polymerization. Progress in Solid State Chemistry (2006), 34(2-4), 181-189.
  - 302.Chae, Han Gi; Liu, Jing; Kumar, Satish. Carbon nanotube-enabled materials. Carbon Nanotubes (2006), 213-274.
  - 303.HG Chae, J Liu, S Kumar – in Carbon Nanotubes: Properties and Applications, 2006( books.google.com) ed by Michael J. O'Connell; CRC Press pp.266

304. Gao, Chao; Muthukrishnan, Sharmila; Li, Wenwen; Yuan, Jiayin; Xu, Youyong; Mueller, Axel H. E. Linear and Hyperbranched Glycopolymers-Functionalized Carbon Nanotubes: Synthesis, Kinetics, and Characterization. *Macromolecules* 2007, 40(6), 1803-1815.
305. Li, Lingyu "Polymer crystallization enabled carbon nanotube functionalization: morphology, structure and applications" Thesis (Ph. D.)--Drexel University, 2007
306. Xiao, Q., He, S., Liu, L., Guo, X., Shi, K., Du, Z., Zhang, B. Coating of multiwalled carbon nanotubes with crosslinked silicon-containing polymer *Composites Science and Technology* 68 (1), pp. 321-328, 2008
307. Ma HY, Tong LF, Xu ZB, et al. Functionalizing carbon nanotubes by grafting on intumescent flame retardant: Nanocomposite synthesis, morphology, rheology, and flammability *Advanced Functional Materials* 18 (3): 414-421, 2008
308. Adeli, M., Bahari, A., Hekmatara, H. Carbon nanotube-graft-poly(citric acid) nanocomposites *Nano* 3 (1), pp. 37-44, 2008
309. Balasubramanian K, Burghard M Electrochemically functionalized carbon nanotubes for device applications *Journal of Materials Chemistry* 18 (26), 3071-3083, 2008
310. Sepahvand, R., Adeli, M., Astinchap, B., Kabiri, R. New nanocomposites containing metal nanoparticles, carbon nanotube and polymer *Journal of Nanoparticle Research* 10 (8), 1309-1318, 2008
311. Pei, X., Xia, Y., Liu, W., Yu, B., Hao, J. Polyelectrolyte-grafted carbon nanotubes: Synthesis, reversible phase-transition behavior, and tribological properties as lubricant additives *Journal of Polymer Science, Part A: Polymer Chemistry* 46 (21), pp. 7225-7237, 2008
312. Chen YH, Mitra S Fast Microwave-Assisted Purification, Functionalization and Dispersion of Multi-Walled Carbon Nanotubes *Journal of Nanoscience and Nanotechnology* Volume: 8 Issue: 11 Pages: 5770-5775, 2008
313. Zhang Y, He HK, Gao C Clickable Macroinitiator Strategy to Build Amphiphilic Polymer Brushes on Carbon Nanotubes *Macromolecules* Volume: 41 Issue: 24 Pages: 9581-9594 Published: DEC 23 2008
314. Shi JH, Yang BX, Goh SH Covalent functionalization of multiwalled carbon nanotubes with poly(styrene-co-acrylonitrile) by reactive melt blending *European Polymer Journal* Volume: 45 Issue: 4 Pages: 1002-1008 Published: APR 2009
315. Liu P Facile graft polystyrene onto multi-walled carbon nanotubes via in situ thermo-induced radical polymerization *Journal of Nanoparticle Research* Volume: 11 Issue: 4 Pages: 1011-1016, 2009
316. Lihua Xu, Zhengping Fang, Ping'an Song and Mao Peng Surface-initiated graft polymerization on multiwalled carbon nanotubes pretreated by corona discharge at atmospheric pressure *Nanoscale* 2 (3): 389-393 (2009)
317. Adeli, M., Sepahvand, R., Bahari, A., Astinchap, B. Carbon nanotube-graft-block copolymers containing silver nanoparticles *International Journal of Nanoscience* 8 (6), pp. 533-541, 2009.
318. Spitalsky, Z., Tasis, D., Papagelis, K., Galiotis, C. Carbon nanotube-polymer composites: Chemistry, processing, mechanical and electrical properties *Progress in Polymer Science* 35 (3): 357-401 (2010)
319. Yang YK, Qiu SQ, Wang XB, Xie XL Functionalization and Structure Control of Carbon Nanotubes with Polymers: Polymer-Grafted Carbon Nanotubes *Progress in Chemistry* 22(4): 684-695 (2010) ISI
320. Xu, L., Fang, Z., Song, P., Peng, M. Surface-initiated graft polymerization on multiwalled carbon nanotubes pretreated by corona discharge at atmospheric pressure *Nanoscale* 2 (3), pp. 389-393, 2010
321. Wu, X., Liu, P. Facile preparation and characterization of graphene nanosheets/polystyrene composites *Macromolecular Research* 18 (10), pp. 1008-1012, 2010
322. Wang, L., Yu, J., Tang, Z., Jiang, P. Synthesis, characteristic, and flammability of modified carbon nanotube/poly(ethylene-co-vinyl acetate) nanocomposites containing phosphorus and silicon *Journal of Materials Science* 45 (24), pp. 6668-6676, 2010
323. Chen HH, Anbarasan R, Kuo LS, et al. A novel report on Eosin Y functionalized MWCNT as an initiator for ring opening polymerization of epsilon-caprolactone *Materials Chemistry and Physics* Volume: 126 Issue: 3 Pages: 584-590 Published: APR 15 2011
324. Lee M, Jeon H, Min BH, et al. Morphology and Electrical Properties of Polymethylmethacrylate/Poly(styrene-co-acrylonitrile)/Multi-Walled Carbon Nanotube Nanocomposites *Journal of Applied Polymer Science* Volume: 121 Issue: 2 Pages: 743-749, 2011
325. Belanger D, Pinson J Electrografting: a powerful method for surface modification *Chemical Society Reviews* Volume: 40 Issue: 7 Pages: 3995-4048, 2011
326. Lee Minho; Jeon Hyeonyeol; Min Byong Hun; et al. Morphology and Electrical Properties of Polymethylmethacrylate/Poly(styrene-co-acrylonitrile)/Multi-Walled Carbon Nanotube Nanocomposites *Journal of Applied Polymer Science* 121 (2) 743-749 (2011)
327. Book: Goh, S. H. Mechanical properties of polymer-polymer-grafted carbon nanotube composites in Polymer-Carbon Nanotube Composites (2011), 347-375 Edited by McNally, Tony; Poetschke, Petra
328. Zou Shufen; Na Bing; Lv Ruihua; et al. The Plasticizer-Assisted Formation of a Percolating Multiwalled Carbon Nanotube Network in Biodegradable Poly(L-lactide) *Journal of Applied Polymer Science* 123 (3) 1843-1847 (2012)
329. Book: Cirillo, Giuseppe; Hampel, Silke; Puoci, Francesco; Haase, Diana; Ritschel, Manfred; Leonhardt, Albrecht; Iemma, Francesca; Picci, Nevio Carbon nanotubes - imprinted polymers: hybrid materials for analytical applications in Materials Science and Technology (2012), 181-218. Edited by Hutagalung, Sabar D

330. Guoyong Xu, Jinyang Cheng, Huiyan Wu, Zhongqing Lin, Yuchuan Zhang, Hu Wang Functionalized carbon nanotubes with oligomeric intumescent flame retardant for reducing the agglomeration and flammability of poly(ethylene vinyl acetate) nanocomposites *Polymer Composites* 2013, 34(1), 109-121
  331. Shiuh Chuan Her, Chun Yu Lai Synthesis and Characterization of Functionalized Multi-Walled Carbon Nanotubes Applied Mechanics and Materials 2013, 307, 377-380
  332. AK Pradhan, SK Swain Synthesis and characterization of poly (acrylonitrile-co-methylmethacrylate) nanocomposites reinforced by functionalized multiwalled carbon nanotubes, *Iranian Polymer Journal* 2013, 22(5), 369-376
  333. SA Ntim, FA Witzmann, S Mitra, Aggregation behaviour of carbon nanotubes in aqueous and physiological media and its influence on toxicity, *International Journal of Biomedical Nanoscience and Nanotechnology* 3(1-2) 2013, 84-106
  334. G Cirillo, S Hampel, UG Spizzirri, OI Parisi, N Picci, and F Iemma Carbon Nanotubes Hybrid Hydrogels in Drug Delivery: A Perspective Review *Bio Med Research International*, 2014 Article ID 825017, 1- 17
  335. Book: A Walcarius, M Etienne, G Herzog, V Urbanova, N Vilà, *Electrode Materials (Bulk Materials and Modification)*, In: *Environmental Analysis by Electrochemical Sensors and Biosensors, Nanostructure Science and Technology*, Editors Ligia Maria Moretto, Kurt Kalcher 2014, pp 403-495
  336. Book: Mamo, M.A. and Mishra, A.K. (2014) *Carbon Nanotubes in the Removal of Heavy Metal Ions from Aqueous Solution, Application of Nanotechnology in Water Research*, 9781118496305, pp. 153-181
  337. Harper JC, Polsky Ronen, Dirk S, Wheeler D, Arango D, Brozik S, Method for the electro-addressable functionalization of electrode arrays. United States Patent US9212430 B1, Publication Date: 12/15/2015,
  338. González-Gaitán, C., Ruiz-Rosas, R., Morallón, E., Cazorla-Amorós, D., *Electrochemical methods to functionalize carbon materials (Book Chapter)*, *Chemical Functionalization of Carbon Nanomaterials: Chemistry and Applications*, 2015, pp. 231-261
  339. Cho, H., Jin, K.S., Lee, J., Lee, K.-H., Estimation of degree of polymerization of poly-acrylonitrile-grafted carbon nanotubes using Guinier plot of small angle x-ray scattering, *Nanotechnology*, 2018, 29(27), 275708.
  340. Moses, J.C., Gangrade, A., Mandal, B.B., *Carbon Nanotubes and Their Polymer Nanocomposites (Book Chapter)*, *Nanomaterials and Polymer Nanocomposites: Raw Materials to Applications*, 2018, pp. 145-175
  341. Basheer, B.V., George, J.J., Siengchin, S., Parameswaranpillai, J., *Polymer grafted carbon nanotubes—Synthesis, properties, and applications: A review*, *Nano-Structures and Nano-Objects*, 2020, 22, 100429.
  342. Steeno, R., Rodríguez González, M.C., Eyley, S., Mali, K.S., De Feyter, S., *Covalent Functionalization of Carbon Surfaces: Diaryliodonium versus Aryldiazonium Chemistry*, *Chemistry of Materials*, 2020, 32(12), pp. 5246-5255
  343. Shankar, Uday, Sushanta K. Sethi, Bhanu P. Singh, Ashok Kumar, Gaurav Manik, and Anasuya Bandyopadhyay. "Optically transparent and lightweight nanocomposite substrate of poly (methyl methacrylate-co-acrylonitrile)/MWCNT for optoelectronic applications: an experimental and theoretical insight." *Journal of Materials Science* 56, no. 30 (2021): 17040-17061.
- Rangelov, S.; Petrov, P.; Berlinova, I.; Tsvetanov, Ch. Association properties of a high molecular weight poly(propylene oxide-b-ethylene oxide) diblock copolymer in aqueous solution *Polymer Bulletin (Heidelberg, Germany)* (2004), 52(2), 155-161.
344. Yao Jun Hong Phd Thesis: Luminescent Materials for Organic Light-Emitting Diodes (Oleds) and Bioimaging, National University Of Singapore, 2007
  345. Morariu, Simona; Brunchi, Cristina-Eliza; Ghimici, Luminita; Bercea, Maria Viscometric behavior of polymer solutions, In *Functional Polymeric Materials Designed for Hi-Tech Applications* (2010), 85-107. Edited by Nechifor, Marioara
  346. PF Minimol, W Paul, CP Sharma PEGylated Starch Acetate Nanoparticles and its Potential Use for Oral insulin Delivery *Carbohydrate Polymers*, 2013, 95(1), 1-8
  347. W Paul, R Shelma, CP Sharma, Alginate encapsulated anacardic acid-chitosan self aggregated nanoparticles for intestinal delivery of protein drugs *Journal of Nanopharmaceutics and Drug Delivery*, 2013, 1, 82-91(10)
  348. Cerqueira, M.A., Pinheiro, A.C., Pastrana, L.M., Vicente, A.A., Amphiphilic Modified Galactomannan as a Novel Potential Carrier for Hydrophobic Compounds, *Frontiers in Sustainable Food Systems*, 2019, 3, 17
- Petrov, P., Bozakov, M., Tsvetanov, C.B. Innovative approach for stabilizing poly(ethylene oxide)-b-poly(propylene oxide)-b-poly(ethylene oxide) micelles by forming nano-sized networks in the micelle. *Journal of Materials Chemistry* (2005), 15(14), 1481-1486.
349. Zhou, Chuncai; Leng, Boxun; Yao, Jinrong; Qian, Jie; Chen, Xin; Zhou, Ping; Knight, David P.; Shao, Zhengzhong. Synthesis and Characterization of Multiblock Copolymers Based on Spider Dragline Silk Proteins. *Biomacromolecules* 2006, 7 (8), 2415-2419
  350. Savić R, Eisenberg A, Maysinger D. Block copolymer micelles as delivery vehicles of hydrophobic drugs: Micelle-cell interactions *Journal of Drug Targeting* 2006, 14 (6): 343-355
  351. Li, Feng; Ketelaar, Tijs; Marcelis, Antonius T. M.; Leermakers, Frans A. M.; Cohen Stuart, Martien A.; Sudhoelter, Ernst J. R. Stabilization of Polymersome Vesicles by an Interpenetrating Polymer Network. *Macromolecules* 2007, 40(2), 329-333.
  352. Chiappetta DA, Sosnik A Poly(ethylene oxide)-poly(propylene oxide) block copolymer micelles as drug delivery agents: Improved hydrosolubility, stability and bioavailability of drugs *European Journal of Pharmaceutics and Biopharmaceutics* 2007, 66 (3): 303-317
  353. Myrra Carstens Self-assembling PEG-oligoesters. Nanoparticle design for drug delivery PhD theses, Utrecht Institute for Pharmaceutical Science, Utrecht, Netherlands, August 2007.



354. Nguyen Phuong, PhD Thesis: Amphiphilic Linear Dendritic Block Copolymers for Drug Delivery, Massachusetts Institute of Technology, USA, 2007
355. Multifunctional Pharmaceutical Nanocarriers, Vladimir Torchilin Ed., Springer 2008, Book Chapter "Pharmaceutical Micelles: Combining Longevity, Stability, and Stimuli Sensitivity", MG Crstens, CJF rijcken, CF van Nostrum, WE Hennink, page 305.
356. Schacher, F., Walther, A., Ruppel, M., Drechsler, M., Müller, A.H.E. Multicompartment Core Micelles of Triblock Terpolymers in Organic Media *Macromolecules* 2009, 42(10), 3540-3548
357. Li, F., De Haan, L.H.J., Marcelis, A.T.M., Leermakers, F.A.M., Cohen Stuart, M.A., Sudhölter, E.J.R. Pluronic polymersomes stabilized by core cross-linked polymer micelles *Soft Matter* 2009, 5(20), 4042-4046
358. Wiradharma, N., Zhang, Y., Venkataraman, S., Hedrick, J.L., Yang, Y.Y. Self-assembled polymer nanostructures for delivery of anticancer therapeutics *Nano Today* 2009, 4(4), 302-317
359. Leung, B.O., Hitchcock, A.P., Brash, J.L., Scholl, A., Doran, A. An X-ray spectromicroscopy study of albumin adsorption to crosslinked polyethylene oxide films *Advanced Engineering Materials* 2010, 12 (5), B133-B138
360. Minseok Kwak, Andrew J. Musser, Jeewon Lee and Andreas Herrmann DNA-functionalised blend micelles: mix and fix polymeric hybrid nanostructures *Chem. Commun.*, 2010, 46 (27), 4935-4937
361. Li, F., Westphal, A.H., Marcelis, A.T.M., Sudhölter, E.J.R., Cohen Stuart, M.A., Leermakers, F.A.M. Mobility of fluorescently labeled polymer micelles in living cells *Soft Matter* 2011, 7(3), 1214-1218
362. Hu, Jie; Koleva, D. A.; van Breugel, K. Microstructural analysis and global performance of mortar with tailored nano aggregates *RILEM Proceedings* (2010), PRO 70 (2nd International Symposium on Service Life Design for Infrastructure, 2010), 791-797.
363. Li, Feng; Westphal, Adrie H.; Marcelis, Antonius T. M.; Sudhoelter, Ernst J. R.; Cohen Stuart, Martien A.; Leermakers, Frans A. M. Thermally sensitive dual fluorescent polymeric micelles for probing cell properties *Soft Matter* 2011, 7(23), 11211-11215.
364. Hu, J.; Koleva, D. A.; Van Breugel, K. Effect of admixed micelles on the microstructure alterations of reinforced mortar subjected to chloride induced corrosion *Procedia Engineering* 2011, 14, 344-352.
365. Hsu, B.Y.W., Teh, C., Tan, H., Wong, S.Y., Zhang, Y., Korzh, V., Li, X., Wang, J. PEO surface-decorated silica nanocapsules and their application in in vivo imaging of zebrafish *RSC Advances* 2012, 2 (32), 12392-12399
366. PS Pourhosseini, AA Saboury, F Najafi, A Divsalar, MN Sarbolouki, Characterization and Release Behavior of Polymersomes of PEG-Poly(fumaric-sebacic acids)-PEG Triblock Copolymer in Aqueous Solution, *Polymer(Korea)*, Vol.37, No.3, 294-301, 2013
367. BOOK: A. SOSNIK –Temperature- and pH sensitive polymeric micelles for drug encapsulation, release and targeting IN *Smart Materials for Drug Delivery*, Volume 1, edited by Carmen Alvarez-Lorenzo, Angel Concheiro, 2013, pp 115-138
368. Arranja, Alexandra, André Schroder, Marc Schmutz, Gilles Waton, François Schosseler, and Eduardo Mendes. "Cytotoxicity and internalization of Pluronic micelles stabilized by core cross-linking." *Journal of Controlled Release*, 196, 87-95 (2014).
369. Herzberger J, Niederer K, Pohlit H, Seiwert J, Worm M, Wurm F, Frey H, Polymerization of Ethylene Oxide, Propylene Oxide, and Other Alkylene Oxides: Synthesis, Novel Polymer Architectures, and Bioconjugation, *Chem. Rev.*, 2016, 116 (4), pp 2170–2243
370. M Liu, D Zhou, YB He, Y Fu, X Qin, C Miao, H Du, B Li, Q-H Yang, Z Lin, T.S. Zhao, F Kang, Novel Gel Polymer Electrolyte for High-Performance Lithium-Sulfur Batteries. *Nano Energy*, 2016, 22, pp. 278-289
371. L Oktavia, S-J Kim, J H Kim, H Park, P Chang-Whan Lee, M Kwak, Dispersion and Stabilization of Quantum Rod Through Semi-interpenetrating Network Formation. *Polymer(Korea)*, 40, 2016, 130-134
372. Xi Cao, Xu Zhou, Yu Wang, Tao Gong, Zhi-Rong Zhang, Renhe Liu, Yao Fu. Diblock- and triblock-copolymer based mixed micelles with high tumor penetration in vitro and in vivo, *J. Mater. Chem. B*, 2016, 4, 3216-3224
373. AC Ciubotariu, L Benea, P Ponthiaux Corrosion resistance of zinc-resin hybrid coatings obtained by electro-codeposition, *Arabian Journal of Chemistry*, 2016
374. M Liu, HR Jiang, YX Ren, D Zhou, FY Kang, TS Zhao In-situ Fabrication of a Freestanding Acrylate-based Hierarchical Electrolyte for Lithium-sulfur Batteries, *Electrochimica Acta*, 2016, 213, 871–878
375. N Boshkov, Influence of Organic Additives and of Stabilized Polymeric Micelles on the Metallographic Structure of Nanocomposite Zn and Zn-Co Coatings, *Portugaliae Electrochimica Acta*, 2017, 5(1), 53-63
376. Zhou, D., Liu, R., Zhang, J., Hu, Y.-S., Kang, F., In situ synthesis of hierarchical poly(ionic liquid)-based solid electrolytes for high-safety lithium-ion and sodium-ion batteries, *Nano Energy*, 2017, 33, pp. 45-54
377. Boshkov, N., Boshkova, N., Application of PEO75PPO30PEO75 stabilised polymeric micelles for improved corrosion resistance of composite zinc coatings, *Transactions of the Institute of Metal Finishing*, 2017, 95(6), pp. 316-320.
378. Kang, M., Park, J.Y., Yang, H.K., Kwak, M., Blending Lumogen-encapsulated nanoparticles as white OLED materials, *Molecular Crystals and Liquid Crystals*, 2017, 659(1), pp. 154-159
379. Li, X., Park, E.-K., Hyun, K., Oktavia, L., Kwak, M., Rheological analysis of core-stabilized Pluronic F127 by semi-interpenetrating network (sIPN) in aqueous solution, *Journal of Rheology*, 2018, 62(1), pp. 107-120
380. Zhou, D., Chen, Y., Li, B., Armand, M., Wang, G., A Stable Quasi-Solid-State Sodium-Sulfur Battery, *Angewandte Chemie - International Edition*, 2018, 57(32), pp. 10168-10172.
381. Oktavia, L., Jeong, S.M., Kang, M., Lee, P.C.W., Kwak, M., Dye encapsulated polymeric nanoprobes for in vitro and in vivo fluorescence imaging in panchromatic range, *Journal of Industrial and Engineering Chemistry*, 2019, 73, pp. 87-94

- 382.Hwang, J., Kang, M., Sari, M.I., Lee, P.C.W., Kwak, M., Phosphate-Functionalized Stabilized F127 Nanoparticles: Introduction of Discrete Surface Charges and Electrophoretic Determination of Aggregation Number, *Macromolecular Research*, 2019, 27(7), pp. 657-662
- 383.Soerawidjaja, B.F., Kang, M., Kim, H., Kim, J.H., Kwak, M., Near infrared dye-encapsulated polymeric nanoparticles with enhanced photostability under hyperthermal condition, *Molecular Crystals and Liquid Crystals*, 2019, 687(1), pp. 53-59
- 384.Ciubotariu, A.C., Benea, L., Ponthiaux, P., Corrosion resistance of zinc-resin hybrid coatings obtained by electro-codeposition, *Arabian Journal of Chemistry*, 2019, 12(8), pp. 4427-4437
- 385.Kang, M., Kim, H., Lee, T.H., Lee, P.C.W., Kwak, M., Highly photostable rylene-encapsulated polymeric nanoparticles for fluorescent labeling in biological system, *Journal of Industrial and Engineering Chemistry*, 2019, 80, pp. 239-246
- 386.Yang, P., Gao, X., Tian, X., Shu, C., Yi, Y., Liu, P., Wang, T., Qu, L., Tian, B., Li, M., Tang, W., Yang, B., Goodenough, J.B., Upgrading Traditional Organic Electrolytes toward Future Lithium Metal Batteries: A Hierarchical Nano-SiO<sub>2</sub>-Supported Gel Polymer Electrolyte, (2020) *ACS Energy Letters*, 5 (5), pp. 1681-1688.
- 387.Tumpa, N.F., Kang, M., Yoo, J., Kim, S., Kwak, M., Rylene Dye-Loaded Polymeric Nanoparticles for Photothermal Eradication of Harmful Dinoflagellates, *Akashiwo sanguinea* and *Alexandrium pacificum*, (2022) *Bioengineering*, 9 (4), art. no. 170.
- 388.Boshkova, N., Boshkov, N., Li, H., Corrosion Characterization of Zn-Mn Hybrid Coatings with Surface Conversion Layers, (2022) *Galvanotechnik*, 113 (1), pp. 37-44.
- 389.Sangitra, S.N. and Pujala, R.K., 2023. Effect of small amounts of akaganeite ( $\beta$ -FeOOH) nanorods on gelation, phase behaviour and injectability of thermoresponsive Pluronic F127. *Soft Matter*, 2023, 19, 5869-5879
- 390.Mecca, S. "Surfactant enhanced synthetic strategies for luminescent nanomaterials and stabilized colloids." (2023): Doctoral thesis (<https://boa.unimib.it/handle/10281/414322>)

P. Petrov, M. Bozukov, M. Burkhardt, S. Muthukrishnan, A. H.E. Müller and C.B. Tsvetanov Stabilization of polymeric micelles with mixed poly(ethylene oxide)/poly(2-hydroxyethyl methacrylate) shell by formation of poly(pentaerythritol tetraacrylate) nanonetworks within the micelles *Journal of Materials Chemistry* 2006, 16, 2192 – 2199

- 391.Savariar, Elamprakash N.; Aathimanikandan, Sivakumar V.; Thayumanavan, S. Supramolecular Assemblies from Amphiphilic Homopolymers: Testing the Scope. *Journal of the American Chemical Society* 2006, 128(50), 16224-16230.
392. Li, Feng; Ketelaar, Tijs; Marcelis, Antonius T. M.; Leermakers, Frans A. M.; Cohen Stuart, Martien A.; Sudhölter, Ernst J. R. Stabilization of Polymersome Vesicles by an Interpenetrating Polymer Network. *Macromolecules* 2007, 40(2), 329-333.
- 393.Ma, R., Wang, B., Xu, Y., An, Y., Zhang, W., Li, G., Shi, L. Surface phase separation and morphology of stimuli responsive complex micelles *Macromolecular Rapid Communications* 2007, 28 (9), 1062-1069.
- 394.Van Butsele, K., Sibret, P., Fustin, C.A., Gohy, J.F., Passirani, C., Benoit, J.-P., Jérôme, R., Jérôme, C. Synthesis and pH-dependent micellization of diblock copolymer mixtures *Journal of Colloid and Interface Science* 2009, 329 (2), 235-243,
- 395.Li, F., De Haan, L.H.J., Marcelis, A.T.M., Leermakers, F.A.M., Cohen Stuart, M.A., Sudhölter, E.J.R. Pluronic polymersomes stabilized by core cross-linked polymer micelles *Soft Matter* 2009, 5(20), 4042-4046
- 396.Koleva, D.A., Van Breugel, K., Ye, G., Zhou, J., Chamululu, G., Koenders, E.A.B. Porosity and permeability of mortar specimens incorporating PEO 113-b-PS218 micelles *American Concrete Institute, ACI Special Publication* 2009 (267 SP):101-110,
- 397.Liang, L., Pinier, M., Leroux, J.-C., Subirade, M. Interaction of alpha-Gliadin with Polyanions: Design Considerations for Sequestrants Used in Supportive Treatment of Celiac Disease *Biopolymers* 2010, 93(5), 418-428
- 398.Leung, B.O., Hitchcock, A.P., Brash, J.L., Scholl, A., Doran, A. An X-ray spectromicroscopy study of albumin adsorption to crosslinked polyethylene oxide films *Advanced Engineering Materials* 2010, 12 (5): B133-B138
- 399.Minseok Kwak, Andrew J. Musser, Jeewon Lee and Andreas Herrmann DNA-functionalised blend micelles: mix and fix polymeric hybrid nanostructures *Chem. Commun.*, 2010, 46 (27), 4935-4937
- 400.B. O. Leung, J. L. Brash and A. P. Hitchcock Characterization of Biomaterials by Soft X-Ray Spectromicroscopy *Materials* 2010, 3, 3911-3938.
- 401.Yuan, C., Xu, Y., Liao, Y., Lin, S., He, N., Dai, L. Morphology tailoring and temperature sensitivity control of waist cross-linked micelles and evaluation of their application as intelligent drug carriers *Journal of Materials Chemistry* 2010, 20 (44), 9968-9975.
- 402.Li, F., Westphal, A.H., Marcelis, A.T.M., Sudhölter, E.J.R., Cohen Stuart, M.A., Leermakers, F.A.M. Mobility of fluorescently labeled polymer micelles in living cells *Soft Matter* 2011, 7 (3), 1214-1218
- 403.Ebrahim Attia, Amalina Bte; Ong, Zhan Yui; Hedrick, James L.; Lee, Phin Peng; Ee, Pui Lai Rachel; Hammond, Paula T.; Yang, Yi-Yan Mixed micelles self-assembled from block copolymers for drug delivery *Current Opinion in Colloid & Interface Science* 2011, 16(3), 182-194.
- 404.Dizman, Cemil; Demirkol, Dilek Odaci; Ates, Sahin; Torun, Lokman; Sakarya, Serhan; Timur, Suna; Yagci, Yusuf Photochemically prepared polysulfone/poly(ethylene glycol) amphiphilic networks and their biomolecule adsorption properties *Colloids and Surfaces, B: Biointerfaces* 2011, 88(1), 265-270.
- 405.Li, Feng; Westphal, Adrie H.; Marcelis, Antonius T. M.; Sudhölter, Ernst J. R.; Cohen Stuart, Martien A.; Leermakers, Frans A. M. Thermally sensitive dual fluorescent polymeric micelles for probing cell properties *Soft Matter* 2011, 7(23), 11211-11215.
- 406.Talelli Marina; Hennink Wim E. Thermosensitive polymeric micelles for targeted drug delivery *Nanomedicine* 2011, 6 (7) 1245-1255

407. Zhou Chengjun; Wang Qingwen; Wu Qinglin UV-initiated crosslinking of electrospun poly(ethylene oxide) nanofibers with pentaerythritol triacrylate: Effect of irradiation time and incorporated cellulose nanocrystals Carbohydrate Polymers 2012, 87 (2) 1779-1786
408. Lysenko, E.A., Kulebyakina, A.I., Grinevich, R.S., Chelushkin, P.S., Zevin, A.B. Influence of a strong polyelectrolyte block on the formation and properties of polymer micelles with a mixed corona Polymer Science Series A 2012, 54 (4) 255-263
409. AB Ebrahim Attia, C Yang, JPK Tan, S Gao, D.F. Williams, J. L. Hedrick, Y.-Y. Yanga The effect of kinetic stability on biodistribution and anti-tumor efficacy of drug-loaded biodegradable polymeric micelles, Biomaterials, 2013, 34(12), 3132-3140
410. Amalina Binte Ebrahim Attia "Design of functional polymeric micelles as a carrier for anticancer drug delivery" PhD THESIS, Nus Graduate School for Integrative Sciences and Engineering, National University of Singapore, 2013, p. 151
411. S Li, Q He, T Chen, W Wu, K Lang, Z Li, J Li Controlled co-delivery nanocarriers based on mixed micelles formed from cyclodextrin-conjugated and cross-linked copolymers Colloids and Surfaces B: Biointerfaces 123, 486-492 (2014)
412. Y Dai, Y Li, S Wang, ABC triblock copolymer-stabilized gold nanoparticles for catalytic reduction of 4-nitrophenol, Journal of Catalysis, 2015, 329, 425-430
413. A Dag, H Lu, M Stenzel Controlling the morphology of glyco-nanoparticles in water using block copolymer mixtures: the effect on cellular uptake, Polymer Chemistry 6, 7812-7820, 2015
414. Y Dai, X Zhang, R Zhuo. Amphiphilic linear-hyperbranched polymer PEG-PEI-PCL: Synthesis, self-assembly and application as the stabilizer of platinum nanoparticles, Polymer International, 2016, 65, (6) 691-697
415. C Yao, J Liu, X Wu, Z Tai, Y Gao, Q Zhu, J Li, L Zhang, C Hu, F Gu, J Gao, S Gao, Reducible self-assembling cationic polypeptide-based micelles mediate co-delivery of doxorubicin and microRNA-34a for androgen-independent prostate cancer therapy, Journal of Controlled Release, 2016, 232, 203-214
416. V. Wyatt, G. Strahan, K. Jones, The Enzymatic Synthesis and Characterization of Disolketal Iminodiacetic Acid (DSIDA), Journal of the American Oil Chemists' Society 2016, 93,(12), pp 1683-1695
417. Gupta, M., Sharma, V., Chauhan, N.S., Nanotechnology for oral delivery of anticancer drugs: An insight potential (Book Chapter), Nanostructures for Oral Medicine, 2017, pp. 467-510
418. Li, X., Park, E.-K., Hyun, K., Oktavia, L., Kwak, M., Rheological analysis of core-stabilized Pluronic F127 by semi-interpenetrating network (sIPN) in aqueous solution, Journal of Rheology, 2018, 62(1), pp. 107-120.
419. Hwang, J., Kang, M., Sari, M.I., Lee, P.C.W., Kwak, M., Phosphate-Functionalized Stabilized F127 Nanoparticles: Introduction of Discrete Surface Charges and Electrophoretic Determination of Aggregation Number, Macromolecular Research, 2019, 27(7), pp. 657-662
420. Mecca, S. "Surfactant enhanced synthetic strategies for luminescent nanomaterials and stabilized colloids." (2023): Doctoral thesis (<https://boa.unimib.it/handle/10281/414322>)
421. Melchiorre, M., Cucciolito, M.E., Esposito, R., Silvestro, S. and Ruffo, F., 2024. Heterogeneous Brønsted Catalysis in the Solvent-Free and Multigram-Scale Synthesis of Polyalcohol Acrylates: The Case Study of Trimethylolpropane Triacrylate. Molecules, 29(4), p.918.

Petrov, P; Petrova, E; Stamenova, R; Tsvetanov, C B.; Riess, G. Cryogels of cellulose derivatives prepared via UV irradiation of moderately frozen systems. Polymer 2006, 47(19), 6481-6484.

422. Li ZX, Wang LG, Huang Y Photoinduced graft copolymerization of polymer surfactants based on hydroxyethyl cellulose Journal of Photochemistry and Photobiology A-Chemistry 2007, 190 (1): 9-14
423. Ivanov, R.V., Lozinsky, V.I., Noh, S.K., Lee, Y.R., Han, S.S., Lyoo, W.S. Preparation and characterization of polyacrylamide cryogels produced from a high-molecular-weight precursor. II. The influence of the molecular weight of the polymeric precursor Journal of Applied Polymer Science 2008, 107 (1): 382-390
424. Plieva, F.M., Oknianska, A., Degerman, E., Mattiasson, B. Macroporous gel particles as robust macroporous matrices for cell immobilization Biotechnology Journal 2008, 3 (3), 410-417.
425. Kim SH, Chu CC Fabrication of a Biodegradable Polysaccharide Hydrogel With Riboflavin, Vitamin B2, as a Photo-Initiator and L-Arginine as Cointiator Upon UV Irradiation Journal of Biomedical Materials Research Part B-Applied Biomaterials 2009, 91B (1), 390-400
426. Book: Plieva, F., Galaev, I., Mattiasson, B. Macroporous Polymers: Production Properties and Biotechnological/Biomedical Applications, Chapter 2: Production and Properties of Cryogels by Radical Polymerization, Eds. Bo Mattiasson, Igor Yu. Galeaev p.24 (2010)
427. Book: Plieva, F., Galaev, I., Mattiasson, B. Macroporous Polymers: Production Properties and Biotechnological/Biomedical Applications, Chapter 6: Macroporous Polysaccharide Gels, Eds. Bo Mattiasson, Igor Yu. Galeaev p.144 (2010)
428. M. U. Kahveci, Z. Beyazkiliç, Y. Yagci, Polyacrylamide cryogels by photoinitiated free radical polymerization Journal of Polymer Science Part A: Polymer Chemistry 2010, 48, (22), 4989-4994.
429. Book: Plieva, F. M., Kumar, A., Galaev, I. Y. and Mattiasson, B. Design of Supermacroporous Biomaterials via Gelation at Subzero Temperatures—Cryogelation, in Advanced Biomaterials: Fundamentals, Processing, and Applications (eds B. Basu, D. S. Katti and A. Kumar), John Wiley & Sons, Inc., Hoboken, NJ, USA. doi: 10.1002/9780470891315.ch14 p.510 (2010)

- 430.Stabenfeldt Sarah E.; LaPlaca Michelle C. Variations in rigidity and ligand density influence neuronal response in methylcellulose-laminin hydrogels *Acta Biomaterialia* 2011, 7 (12) 4102-4108
- 431.Welzel, P.B., Grimmer, M., Renneberg, C., Naujox, L., Zschoche, S., Freudenberg, U., Werner, C. Macroporous starPEG-heparin cryogels, *Biomacromolecules* 2012, 13 (8), 2349-2358
- 432.Dinu, M.V., Schwarz, S., Dinu, I.A., Drăgan, E.S. Comparative rheological study of ionic semi-IPN composite hydrogels based on polyacrylamide and dextran sulphate and of polyacrylamide hydrogels *Colloid and Polymer Science* 2012, 290 (16), 1647-1657
- 433.Solmaz Hajizadeh PhD Thesis "Composite Cryogels: Stationary Phase for Separation of Complex Media" Lund University, Sweden, Lund, December 2012
- 434.Dinu, Maria V.; Cazacu, Maria; Dragan, Ecaterina S. Mechanical, thermal and surface properties of polyacrylamide/dextran semi-interpenetrating network hydrogels tuned by the synthesis temperature *Central European Journal of Chemistry* 2013, 11 (2), 248-258
- 435.VI Lozinsky, O Okay, Basic Principles of Cryotropic Gelation in Polymeric Cryogels: Macroporous Gels with Remarkable Properties, *Advances in Polymer Science* 263, 2014, pp 49-101
- 436.Gry Ravn Jespersen, PhD Thesis: Cryogels as solid supports in bioprocessing, University of Lund, Sweden, March 2014.
- 437.Shen, X., Shamshina, J.L., Berton, P., Gurau, G., Rogers, R.D. Hydrogels based on cellulose and chitin: Fabrication, properties, and applications, *Green Chemistry*, 2015, 18 (1), pp. 53-75
- 438.X Shen, JL Shamshina, P Berton, J Bandomir, H Wang, G Gurau, R D. Rogers , Comparison of Hydrogels Prepared with Ionic Liquid-Isolated vs. Commercial Chitin and Cellulose, *ACS Sustainable Chem. Eng.*, 2016, 4 (2), pp. 471-480
- 439.Shen X, Shamshina J, Berton P, Gurau G, Rogers RD, Hydrogels based on cellulose and chitin: fabrication, properties, and applications, *Green Chem.*, 2016, 18, 53-75
- 440.S Van Vlierberghe Crosslinking strategies for porous gelatin scaffolds, *Journal of Materials Science*, 2016, 51(9), 4349-4357
- 441.Castillo-Miranda, C.A., Castro-Guerrero, C.F., Velasco-Ocejo, H.A., Rivera-Armenta, J.L., Morales-Cepeda, A.B., Acetylsalicylic acid (asa) on hydroxyethylcellulose/polyacrylamide gel (hec/paam) as a proposal for a dermatological compress: Mathematical modeling of asa release kinetics, *International Journal of Polymer Science*, 2019, 2019,4597641
- 442.Mohammadinejad, R., Maleki, H., Larrañeta, E., Mishra, Y.K., Thakur, V.K., Status and future scope of plant-based green hydrogels in biomedical engineering, *Applied Materials Today*, 2019, 16, pp. 213-246.
- 443.Dezotti, Rafael S., Laíse M. Furtado, Márcio Yee, Ticiane S. Valera, Krishnasamy Balaji, Rômulo A. Ando, and Denise FS Petri. "Tuning the Mechanical and Thermal Properties of Hydroxypropyl Methylcellulose Cryogels with the Aid of Surfactants." *Gels* 7, no. 3 (2021): 118.
- 444.Satchanska G (2022) Growing Environmental Bacterium Biofilms in PEO Cryogels for Environmental Biotechnology Application. Focus on Bacterial Biofilms. IntechOpen. Available at: <http://dx.doi.org/10.5772/intechopen.104813>.
- 445.Veintramuthu S and Ravi Mahipriya S (2022) Approaches to Enhance Therapeutic Activity of Drugs against Bacterial Biofilms. Focus on Bacterial Biofilms. IntechOpen. Available at: <http://dx.doi.org/10.5772/intechopen.104470>.
- 446.Bonetti, L., De Nardo, L. and Farè, S., 2023. Crosslinking strategies in modulating methylcellulose hydrogel properties. *Soft Matter*, 2023, 19(41), pp.7869-7884.

Y Toshev, V Mandova, N Boshkov, D Stoychev, P Petrov, N Tsvetkova, G Raichevski, Ch Tsvetanov, A Gabev, R Velev, K Kostadinov, Protective coating of zinc and zinc alloys for industrial applications, 4M 2006-Second International Conference on Multi-Material Micro Manufacture, 2006, 323-326

- 447.Q Yao, NB Samad, B Keller, XS Seah, L Huang, R Lau, Mobility of heavy metals and rare earth elements in incineration bottom ash through particle size reduction, *Chemical Engineering Science*, 118, 2014, 214-220
- 448.M Frei, J Martin, S Kindler, G Cristiano, R Zengerle, S Kerzenmacher, Power supply for electronic contact lenses: Abiotic glucose fuel cells vs. Mg/air batteries, *Journal Power Sources*, 401, 2018, 403-414
- 449.Kundu, Arnab, Anumat Sittiho, Indrajit Charit, Brian Jaques, and Chao Jiang. "Development of Fe-9Cr alloy via high-energy ball milling and spark plasma sintering." *JOM* 71, no. 8 (2019): 2846-2855.
- 450.Filer, Jessica. "Development of electrochemical assays and biosensors for detection of Zika virus." PhD diss., Colorado State University, 2019.
- 451.Kundu, Arnab, Nikunja Shrestha, Alen Korjenic, Krishnan S. Raja, and Indrajit Charit. "A study on microstructural evolution and corrosion behavior of spark plasma sintered Fe-Cr alloy system." *Journal of Materials Science* 54, no. 22 (2019): 14171-14188.
- 452.Bylapudi, Gopi, Kanchan Mondal, A. J. Spearing, and Anand Bhagwat. "Corrosion properties of ASTM A615 rock bolt steel in US underground coal mines." *Mining Technology* 129, no. 3 (2020): 135-150.
- 453.Cheah, Zhen Ke. "Electrical Characteristics of Aluminum Air Battery Under Open-Circuit And Closed-Circuit Conditions." PhD diss., UTAR, 2020.
- 454.Ribeiro, Carlos Alberto Amaral. "Estudo do efeito de surfactantes catiônico e aniônico na corrosão do aço-carbono ABNT 1020 em meio de NaCl." PhD diss., Universidade de São Paulo.2020

КОНКУРС ЗА ЧЛЕН-КОРЕСПОНДЕНТИ НА БАН 2024

- 455.Sun, Yipu, Aidong Lan, Xi Jin, Huijun Yang, and Junwei Qiao. "Comparison of electrochemical behaviour between La-free and La-containing CrMnFeNi HEA by Mott-Schottky analysis and EIS measurements." *Corrosion Engineering, Science and Technology* 56, no. 2 (2021): 171-178.
  - 456.Jyotheender, K. Sai, and Chandan Srivastava. "Correlating the Five-Parameter Grain Boundary Character Distribution and Corrosion Behavior of Zinc-Carbon Nanotube Composite Coatings." *Metallurgical and Materials Transactions A* 52, no. 1 (2021): 364-377.
  - 457.Mopon, Marlon L., Jayson S. Garcia, Dexter M. Manguerra, and Cyril John C. Narisma. "Corrosion Behavior of AA 1100 Anodized in Gallic-Sulfuric Acid Solution." *Coatings* 11, no. 4 (2021): 405.
  - 458.Corona-Gomez, J., T. A. Jack, R. Feng, and Q. Yang. "Wear and corrosion characteristics of nano-crystalline tantalum nitride coatings deposited on CoCrMo alloy for hip joint applications." *Materials Characterization* 182 (2021): 111516.
  - 459.de Souza, Lucio R. "SYNTHESIS AND APPLICATION OF HIGH PERFORMANCE BENZOXAZINE-EPOXY COPOLYMERS." PhD diss., Case Western Reserve University, 2021.
  - 460.Corona-Gomez J, Sandhi KK, Yang Q. Wear and corrosion behaviour of nanocrystalline TaN, ZrN, and TaZrN coatings deposited on biomedical grade CoCrMo alloy. *Journal of the Mechanical Behavior of Biomedical Materials*. 2022;130:105228.
  - 461.Li G, Shen E, Liang L, Li K, Lu Y, Zhu W, Tian Y, Baker I, Wu H. Microstructure and corrosion resistance of powder metallurgical Ti-Nb-Zr-Mg alloys with low modulus for biomedical application. *Materials Characterization*. 2022; 192:112223.
  - 462.Corona-Gomez J, Yang Q. Wear and corrosion characterization of single and multilayered nanocrystalline tantalum coatings on biomedical grade CoCrMo alloy. *Materialia*. 2022; 24:101518.
  - 463.Kohl M, Alafid F, Bouška M, Krejčová A, Raycha Y, Kalendová A, Hrdina R, Burgert L. New Corrosion Inhibitors Based on Perylene Units in Epoxy Ester Resin Coatings. *Coatings*. 2022, 12(7):923.
  - 464.Çomez N. Effect of Vanadium on Wear and Corrosion Resistance of Fe-C-Cr Hardfacing Coatings. *Journal of Materials Engineering and Performance*. 2022, 1-11.
  - 465.Phamornnak, C., 2022. Development of novel electrically conductive scaffolds based on silk fibroin with electrical stimulation for peripheral nerve regeneration (Doctoral dissertation, University of Manchester).
  - 466.Çomez, N., Effect of vanadium on wear and corrosion resistance of Fe-C-Cr hardfacing coatings. *Journal of Materials Engineering and Performance*, 2023, 32(4), pp.1905-1915.
  - 467.Sabuz, E.H., Noor-A-Alam, M., Haider, W. and Shabib, I., Improving the Mechanical and Electrochemical Performance of Additively Manufactured 8620 Low Alloy Steel via Boriding. *Corrosion and Materials Degradation*, 2023, 4(4), pp.623-643.
  - 468.Loto, R.T., Osamudiam, O., Nissi, A.C., Oluwakayode, O.O., Oghoho, U.V., Daniel, O.C., Smart, I.P., Lemuel, P.A.C. and Nwabeze, O.R., Protection Effect of Admixed Melaleuca alternifolia and Citrus paradisi Macf. Oil Extracts on High Carbon and 3310 Low Grade Alloy Steels in HCl Solution. *Journal of Bio-and Tribo-Corrosion*, 2023, 9(1), p.19.
  - 469.Bhowmik, A., Dewangan, S.K., Banjare, P.N. and Manoj, M.K., Mechanical and Corrosion Study of Dissimilar Friction Stir Welding of AZ31Mg Alloy and Cu-8Zn Alloy. In *The International Conference on Metallurgical Engineering and Centenary Celebration 2023*, pp. 335-344. Singapore: Springer Nature Singapore.
- Nelles, G; Rosselli, S; Miteva, T; Yasuda, A; Tsvetanov, Ch; Stamenova R; Berlinova, I; Petrov, P A method of producing poly(ethylene oxide - alkylene oxide) copolymers EP 1 840 150 A1, 2007
- 470.Iwasa, N., Miura, K., Kan, S., Furukawa, Y. Ring-opening polymerization of various oxirane derivatives using organotin phosphate condensate; Selective synthesis of the polyether containing oxirane ring in the side chain *Polymer Bulletin* 2008, 61 (2), 207-216.
  - 471.Anne-Laure Brocas, Christos Mantzaridis, Deniz Tunc, Stephane Carlotti, Polyether synthesis: From activated or metal-free anionic ring-opening polymerization of epoxides to functionalization, *Progress in Polymer Science*, 2013, 38 (6),845-873
- Nelles, Gabriele, Silvia Rosselli, Tzenka Miteva, Akio Yasuda, Christo Tsvetanov, Rayna Stamenova, Iliyana Berlinova, and Petar Petrov. "Method of producing a poly (ethylene oxide) copolymerised with at least one other alkylene oxide." U.S. Patent 8,293,866, issued October 23, 2012.
- 472.Brocas, Anne-Laure, Christos Mantzaridis, Deniz Tunc, and Stephane Carlotti. "Polyether synthesis: From activated or metal-free anionic ring-opening polymerization of epoxides to functionalization." *Progress in Polymer Science* 38, no. 6 (2013): 845-873.
  - 473.Carlotti, Stéphane, and Frédéric Peruch. "Cyclic Monomers: Epoxides, Lactide, Lactones, Lactams, Cyclic Silicon-Containing Monomers, Cyclic Carbonates, and Others." In *Anionic Polymerization*, pp. 191-305. Springer, Tokyo, 2015.
  - 474.Ahn, Kyoung Ho, Sol Ji Park, Chul Haeng Lee, Jeong Woo Oh, Jung Hoon Lee, and Yi Jin Jung. "Solid polymer electrolyte and method of preparing the same." U.S. Patent 10,892,519, issued January 12, 2021.
- Nelles, G.; Rosselli, S.; Miteva, T.; Yasuda, A.; Tsvetanov, Ch.; Berlinova, I.; Petrov, P.; Stamenova R. A method of forming a crosslinked polymer gel EP 1 840 152 A1, 2007
- 475.Lee, J.Y., Bhattacharya, B., Kim, D.-W., Park, J.-K. Poly(ethylene oxide)/poly(dimethylsiloxane) blend solid polymer electrolyte and its dye-sensitized solar cell applications *Journal of Physical Chemistry C* 2008, 112 (32), 12576-12582.



476.Nita, Loredana E.; Chiriac, Aurica P. Polymer structures for sensors and actuators 1. Analyte biosensor Recent Patents on Materials Science 2010, 3(3), 219-238.

G Nelles, S Rosselli, T Miteva, A Yasuda, C Tsvetanov, R Stamenova, I Berlinova P Petrov Method of forming a crosslinked polymer gel US20090030102A1 (US7893125B2), 2011

477.H Rau, T Voigt, U Hersel Sterilization of biodegradable hydrogels, US8986609B2, 2015

478.F Cleemann, U Hersel, T Lessman, H Rau Prodrugs comprising an exendin linker conjugate, US9133276B2, 2015

479. H Rau, F Cleemann, U Hersel, S Kaden-Vagt, T Lessman, T Wegge, Prodrugs comprising an insulin linker conjugate, US9138462B2, 2015

480.H Rau, F Cleemann, U Hersel, S Kaden-Vagt, T Lessman, T Wegge, Prodrugs comprising an insulin linker conjugate US 9457066B2, 2016

481. K Sprogø, F Cleemann, U Hersel, S Kaden-Vagt, T Lessman, H Rau, T Wegge, Long acting insulin composition, US9265723B2, 2016

482.J Yang, HB Eitouni, M Singh High temperature lithium cells with solid polymer electrolytes, US9590268B2, 2017

483.A Harada, Y Takashima, T Kakuta, Gel with self-restorability and shape-memory property and process for producing same, US10106628B2, 2018

484.J Yang, HB Eitouni, M Singh, Polymer compositions based on pxe, US10000606B2, 2018

485.Bonderer, L.J., Ivoclar Vivadent AG, 2021. Burn-out dental modelling material. U.S. Patent 11,021,600.

486.Wright DR, Belvaux X, Midgley B, Abraham W, inventors; Monsanto Technology LLC, assignee. Agrochemical gel compositions. United States patent US 11,419,329. 2022.

487.Yang J, Pistorino JC, Eitouni HB, inventors; Robert Bosch GmbH, assignee. Polymer compositions based on PXE. United States patent US 11,453,772. 2022.

488.Bonderer, L.J., Ivoclar Vivadent AG, Burn-out dental modelling material. U.S. Patent 11,649,345, 2023.

P. Petrov, E. Petrova, B. Tchorbanov, C.B. Tsvetanov. Synthesis of biodegradable hydroxyethylcellulose cryogels by UV irradiation. Polymer 2007, 48 4943-4949.

489.Teichroeb, J.H., Forrest, J.A., Jones, L.W., Chan, J., Dalton, K. Quartz crystal microbalance study of protein adsorption kinetics on poly(2-hydroxyethyl methacrylate) Journal of Colloid and Interface Science 2008, 325 (1), 157-164,

490.El Ahwany, A.M.D., Mohamed, E.A.H. Enzymatic hydrolysis of pseudoplastic paint thickener (hydroxyethyl cellulose) by a local isolate of Aspergillus niger African Journal of Biotechnology 2008, 7 (20), 3668-3673

491.Kim SH, Chu CC Visible light induced dextran-methacrylate hydrogel formation using (-)-riboflavin vitamin B2 as a photoinitiator and L-arginine as a co-initiator Fibers and Polymers 2009, 10 (1), 14-20

492.Choonara YE, Pillay V, Khan, R.A., Singh, N., Du Toit, L.C. Mechanistic Evaluation of Alginate-HEC Gelispheres Compacts for Controlled Intrastriatal Nicotine Release in Parkinson's Disease Journal of Pharmaceutical Sciences 2009, 98(6), 2059-2072

493.Kim SH, Chu CC Fabrication of a Biodegradable Polysaccharide Hydrogel With Riboflavin, Vitamin B2, as a Photo-Initiator and L-Arginine as Coinitiator Upon UV Irradiation Journal of Biomedical Materials Research Part B-Applied Biomaterials 2009, 91B (1), 390-400

494.Wang JL, Wang WB, Wang AQ Synthesis, Characterization and Swelling Behaviors of Hydroxyethyl Cellulose-g-Poly(acrylic acid)/Attapulgit Superabsorbent Composite Polymer Engineering And Science 2010, 50 (5), 1019-1027

495.Book: Plieva, F., Galaev, I., Mattiasson, B. Macroporous Polymers: Production Properties and Biotechnological/Biomedical Applications, Chapter 2: Production and Properties of Cryogels by Radical Polymerization Eds. Bo Mattiasson,Igor Yu. Galeaev p.24 (2010)

496.Book: Plieva, F., Galaev, I., Mattiasson, B. Macroporous Polymers: Production Properties and Biotechnological/Biomedical Applications, Chapter 6: Macroporous Polysaccharide Gels, Eds. Bo Mattiasson,Igor Yu. Galeaev p.144 (2010)

497.M. U. Kahveci, Z. Beyazkiliç, Y. Yagci, Polyacrylamide cryogels by photoinitiated free radical polymerization Journal of Polymer Science Part A: Polymer Chemistry 2010, 48, (22), 4989–4994

498.Winkelhausen, E., Velickova, E., Amartei, S.A., Kuzmanova, S. Ethanol production using immobilized saccharomyces cerevisiae in lyophilized cellulose gel Applied Biochemistry and Biotechnology 2010, 162 (8), 2214-2220.

499.Chang CY, Zhang LN Cellulose-based hydrogels: Present status and application prospects Carbohydrate Polymers 2011, 84(1), 40-53.

500.Velickova, Elena; Cvetkovska, Maja; Kuzmanova, Slobodanka; Winkelhausen, Eleonora A lag-time model for substrate and product diffusion through hydroxyethylcellulose gels used for immobilization of yeast cells Macedonian Journal of Chemistry and Chemical Engineering 2011, 30(1), 85-96.

501.Ni, Boli; Liu, Mingzhu; Lu, Shaoyu; Xie, Lihua; Wang, Yanfang Environmentally Friendly Slow-Release Nitrogen Fertilizer Journal of Agricultural and Food Chemistry 2011, 59(18), 10169-10175.



- 502.de Hazan Yoram Porous Ceramics, Ceramic/Polymer, and Metal-Doped Ceramic/Polymer Nanocomposites via Freeze Casting of Photo-Curable Colloidal Fluids *Journal of the American Ceramic Society* 2012, 95(1), 177-187.
- 503.Shi, X., Tan, L., Xing, J., Cao, F., Chen, L., Luo, Z., Wang, Y. Synthesis of hydroxyethylcellulose-g-methoxypoly (ethylene glycol) copolymer and its application for protein separation in CE *Journal of Applied Polymer Science*, 2013, 128(3),1995–2002
- 504.VI Lozinsky A brief history of polymeric cryogels in *Polymeric Cryogels: Macroporous Gels with Remarkable Properties*, *Advances in Polymer Science* 263, 2014, pp 1-48
- 505.VI Lozinsky, O Okay, *Basic Principles of Cryotropic Gelation in Polymeric Cryogels: Macroporous Gels with Remarkable Properties*, *Advances in Polymer Science* 263, 2014, pp 49-101
- 506.N Sahiner, F Seven Energy and environmental usage of super porous poly (2-acrylamido-2-methyl-1-propan sulfonic acid) cryogel support *RSC Advances*, 2014, 4, 23886-23897
- 507.N Sahiner, F Seven, H Al-lohedan, Superporous Cryogel-M (Cu, Ni, and Co) Composites in Catalytic Reduction of Toxic Phenolic Compounds and Dyes from Wastewaters, *Water, Air, & Soil Pollution*, 2015, 226:122
- 508.MM Ozmen, Q Fu, J Kim, GG Qiao, A rapid and facile preparation of novel macroporous silicone-based cryogels via photo-induced thiol-ene click chemistry, *Chemical Communications*, 2015, 51, 17479-17482
- 509.Damania, A., Teotia, A.K., Kumar, A., Synthesis and characterization of cryogels ( Book Chapter), *Supermacroporous Cryogels: Biomedical and Biotechnological Applications*, 2016, pp. 35-89
- 510.Fekete, T., Borsa, J., Takács, E., Wojnárovits, L., Synthesis and characterization of superabsorbent hydrogels based on hydroxyethylcellulose and acrylic acid, *Carbohydrate Polymers*, 2017, 166, pp. 300-308
- 511.Madaghiele, M., Salvatore, L., Demitri, C., Sannino, A., Fast synthesis of poly(ethylene glycol) diacrylate cryogels via UV irradiation, *Materials Letters*, 2018, 218, pp. 305-308
- 512.Obidi, O.F., Awe, O.O., Okekunjo, F.O., Igwo-Ezikpe, M.N., Studying the cellulolytic activity of microorganisms isolated from stained painted walls with reference to certain factors: a cross sectional study, *International Journal of Environmental Studies*, 2018, 75(5), pp. 740-749
- 513.Kamoun, E.A., El-Betany, A., Menzel, H., Chen, X., Influence of photoinitiator concentration and irradiation time on the crosslinking performance of visible-light activated pullulan-HEMA hydrogels, *International Journal of Biological Macromolecules*, 2018, 120, pp. 1884-1892
- 514.Shariatnia, Z., Barzegari, A. Polysaccharide hydrogel films/membranes for transdermal delivery of therapeutics ( Book Chapter), *Polysaccharide Carriers for Drug Delivery*, 2019, pp. 639-684
- 515.Castillo-Miranda, C.A., Castro-Guerrero, C.F., Velasco-Ocejo, H.A., Rivera-Armenta, J.L., Morales-Cepeda, A.B. Acetylsalicylic acid (asa) on hydroxyethylcellulose/polyacrylamide gel (hec/paam) as a proposal for a dermatological compress: Mathematical modeling of asa release kinetics, *International Journal of Polymer Science*, 2019, 2019,4597641
- 516.Fan, C., Ling, Y., Deng, W., Sun, P., Wang, D.-A. A novel cell encapsulatable cryogel (CECG) with macro-porous structures and high permeability: A three-dimensional cell culture scaffold for enhanced cell adhesion and proliferation, *Biomedical Materials (Bristol)*, 2019, 14(5),055006
- 517.Vara, S., Karnena, M.K., Dash, S., Sanjana, R. Entomogenous fungi and the conservation of the cultural heritage ( Book Chapter), *Microbial Biotechnology Approaches to Monuments of Cultural Heritage*, 2020, pp. 41-69
- 518.Noreen, A., Zia, K.M., Tabasum, S., Shahid, M., Zuber, M. Structural elucidation and biological aptitude of modified hydroxyethylcellulose-polydimethyl siloxane based polyurethanes, *International Journal of Biological Macromolecules*, 2020,150, pp. 426-440
- 519.Noreen, A., Zia, K.M., Tabasum, S., Shahid, M., Zuber, M. , Hydroxyethylcellulose-g-poly(lactic acid) blended polyurethanes: Preparation, characterization and biological studies, *International Journal of Biological Macromolecules*, 2020, 151, pp. 993-1003
- 520.Ghobashy, M.M., El-Damhougy, B.K., El-Wahab, H.A., Alkhursani, S.A., Alshangiti, D.M., Controlling radiation degradation of a CMC solution to optimize the swelling of acrylic acid hydrogel as water and fertilizer carriers, *Polymers for Advanced Technologies*, 2021, 32(2), pp. 514-524
- 521.Jones, Luke O., Leah Williams, Tasmin Boam, Martin Kalmet, Chidubem Oguike, and Fiona L. Hatton. "Cryogels: recent applications in 3D-bioprinting, injectable cryogels, drug delivery, and wound healing." *Beilstein Journal of Organic Chemistry* 17, no. 1 (2021): 2553-2569.
- 522.Phulpoto, A. H., M. A. Maitlo, and N. A. Kanhar. "Culture-dependent to culture-independent approaches for the bioremediation of paints: a review." *International Journal of Environmental Science and Technology* 18, no. 1 (2021): 241-262.
- 523.Zoughaib, M., Dayob, K., Avdokushina, S., Kamalov, M.I., Salakhieva, D.V., Savina, I.N., Lavrov, I.A. and Abdullin, T.I., Oligo (Poly (Ethylene Glycol) Fumarate)-Based Multicomponent Cryogels for Neural Tissue Replacement. *Gels*, 2023, 9(2), p.105.
- 524.Bourkaib, K., Hadsadok, A. and Djedri, S., 2024. Synergistic Effect of Opuntia ficus-indica Cladode mucilage on Physicochemical and Rheological properties of HPAM polymer solutions for EOR Application. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 691, p.133794.

N. Boshkov, N. Tsvetkova, P. Petrov, D. Koleva, K. Petrov, G. Avdeev, Ch. Tsvetanov, G Raichevsky and R. Raicheff Corrosion behavior and protective ability of Zn and Zn–Co electrodeposits with embedded polymeric nanoparticles *Applied Surface Science* 2008, 254(17), 5618-5625.

- 525.M. Heydari Gharahcheshmeha, and M. Heydarzadeh Sohi Study of the corrosion behavior of zinc and Zn–Co alloy electrodeposits obtained from alkaline bath using direct current Materials Chemistry and Physics 2009, 117(2-3), 414-421.
- 526.Gharahcheshmeh, M.H., Sohi, M.H. Electrochemical studies of zinc-cobalt alloy coatings deposited from alkaline baths containing glycine as complexing agent Journal of Applied Electrochemistry 2010, 40 (8), 1563-1570.
- 527.Vasilakopoulos, D., Bouroushian, M. Electrochemical codeposition of PMMA particles with zinc Surface and Coatings Technology 2010, 205 (1), 110-117.
- 528.Ma, Shengqiang; Xing, Jiandong; Fu, Hanguang; Yi, Dawei; Zhang, Jianjun; Li, Yefei; Zhang, Zhiyun; Zhu, Baojian; Ma, Shengchao Interfacial morphology and corrosion resistance of Fe-B cast steel containing chromium and nickel in liquid zinc Corrosion Science 2011, 53(9), 2826-2834.
- 529.Gomes A.; Almeida I.; Frade T.; et al. Stability of Zn-Ni-TiO<sub>2</sub> and Zn-TiO<sub>2</sub> nanocomposite coatings in near-neutral sulphate solutions Journal of Nanoparticle Research 2012, 14(2) Article Number: 692
530. Olad Ali; Barati Mohammad; Behboudi Sepideh Preparation of PANI/epoxy/Zn nanocomposite using Zn nanoparticles and epoxy resin as additives and investigation of its corrosion protection behavior on iron Progress in Organic Coatings 2012, 74 (1) 221-227
- 531.G Salvago, M Bestetti Metal Matrix Composites: Corrosion Wiley Encyclopedia of Composites, 2012. DOI: 10.1002/9781118097298.weoc140
- 532.F Yin, X Ruan, M Zhao, Y Liu The 600° C and 450° C isothermal sections of the Zn-Fe-B system Journal of Alloys and Compounds, 2013, 565, 79–84
- 533.Y Ullal, AC Hegde Corrosion protection of electrodeposited multilayer nanocomposite Zn-Ni-SiO<sub>2</sub> coatings Surface Engineering and Applied Electrochemistry, 2013, 49(2),161-167
- 534.IL Lehr, SB Saidman, Anticorrosive properties of polypyrrole films modified with zinc onto SAE 4140 steel Progress in Organic Coatings, 2013, 76(11), 1586–1593
- 535.Ates, Murat. "Comparison of corrosion protection of chemically and electrochemically synthesized poly (N-vinylcarbazole) and its nanocomposites on stainless steel." Journal of Solid State Electrochemistry (2014): 1-9.
- 536.Korobov, Viktor I., Lina V. Petrenko, and Veronika V. Poltavets. "Effect of Phase Composition on the Anodic Dissolution and Passivation of Zinc-based Alloys." Universal Journal of Chemistry, 2 (5) 76-85 (2014).
- 537.Lina V. Petrenko, V.I. Korobov, The influence of electrolytic zn–ni alloys structural characteristics on their electrochemical properties Visnik Dnipropetrovskogo Universitetu, Seria himia, 22 (2) 52-60 (2014).
- 538.M Ates, Comparison of corrosion protection of chemically and electrochemically synthesized poly (N-vinylcarbazole) and its nanocomposites on stainless steel, Journal of Solid State Electrochemistry, 2015, 19(2),533-541
- 539.Ü Erten, Hİ Ünal, S Zor, ŞH Atapek, Structural and electrochemical characterization of Zn–TiO<sub>2</sub> and Zn–WO<sub>3</sub> nanocomposite coatings electrodeposited on St 37 steel, Journal of Applied Electrochemistry 45, 991-1003, 2015
- 540.TKA Hoang, KEK Sun, P Chen, Corrosion chemistry and protection of zinc & zinc alloys by polymer-containing materials for potential use in rechargeable aqueous batteries, RSC Advances, 2015, 5, 41677-41691.
- 541.J Winiarski, W Tylus, B Szczygieł, EIS and XPS investigations on the corrosion mechanism of ternary Zn-Co-Mo alloy coatings in NaCl solution, Applied Surface Science, 364 (2016) 455–466
- 542.AC Ciubotariu, L Benea, P Ponthiaux, Phenol – Formaldehyde Resin to Improve Corrosion Resistance of Zinc Layers, Key Engineering Materials. 2016, 699, 63-70
- 543.Deepa, K., Venkatesha, T.V. Comparative Anticorrosion Performance of Electrochemically Produced Zn–NiO and Zn–NiO–ZrO<sub>2</sub> Composite Coatings on Mild Steel, Surface Engineering and Applied Electrochemistry, 2019, 55(3), pp. 317-323
- 544.Ciubotariu, A.C., Benea, L., Ponthiaux, P. Corrosion resistance of zinc–resin hybrid coatings obtained by electro-codeposition, Arabian Journal of Chemistry, 2019, 12(8), pp. 4427-4437
- 545.Kallappa, D., Venkatarangaiah, V.T. Synthesis of CeO<sub>2</sub> doped ZnO nanoparticles and their application in Zn-composite coating on mild steel, Arabian Journal of Chemistry, 2020, 13(1), pp. 2309-2317
- 546.Han, C., Li, W., Liu, H.K., Dou, S., Wang, J., Principals and strategies for constructing a highly reversible zinc metal anode in aqueous batteries, Nano Energy, 2020, 74,104880
- 547.Arora, S., Srivastava, C., Evolution of Phase Constitution, Morphology and Corrosion Behavior of ZnCo Coating Containing Graphene Oxide, Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51(8), pp. 4274-4287
- 548.Assaf, F., Abou-Krishna, M., Yousef, T.A., El-Sheref, F., Toghan, A., Influence of Current Density on the Mechanism of Electrodeposition and Dissolution of Zn–Fe–Co Alloys, Russian Journal of Physical Chemistry A, 2020, 94(8), pp. 1708-1715
- 549.Arora, S., Sharma, B., Srivastava, C., ZnCo-carbon nanotube composite coating with enhanced corrosion resistance behavior, Surface and Coatings Technology, 2020, 398,126083
- 550.Lopes, C.D.S., Rigoli, I.C., Rovere, C.A.D., Rocha, C.L.F.D., Souza, C.A.C.D., Electrodeposition and the properties of a Zn-Cotton nanocrystal composite coating, (2022) Journal of Materials Research and Technology, 17, pp. 852-864.

- 551.Wu, Yan, Tao Liu, Bin Ji, and Wei Wang. "Effect of (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> on the co-electrodeposition of Fe-Co alloys." *Applied Surface Science* 2022, 155567.
- 552.Jiang, J., Li, Z., Pan, Z., Wang, S., Chen, Y., Zhuang, Q., Ju, Z. and Zhang, X., Recent Progress and Prospects on Dendrite-free Engineerings for Aqueous Zinc Metal Anodes. *Energy & Environmental Materials*, 2023, 6(3), p.e12410.
- 553.Wu, Y., Liu, T., Ji, B. and Wang, W., Effect of (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> on the co-electrodeposition of Fe-Co alloys. *Applied Surface Science*, 2023, 612, p.155567.
- 554.Tsakova, V., Electrochemistry born in Bulgaria: the wide spread of ripened seeds at the transition to the twenty-first century. *Journal of Solid State Electrochemistry*, 2023, pp.1-12.

P. Petrov, P. Mokreva, Ch.B. Tsvetanov, L. Terlemezyan Colloidal aqueous dispersion of polyaniline nanotubes grafted non-covalently with poly(ethylene oxide)-block-poly(acrylic acid) copolymer *Colloid and Polymer Science* 2008, 286 (6-7) 691-697

- 555.Ciric-Marjanovic G, Dondur V, Milojevic M, et al. Synthesis and Characterization of Conducting Self-Assembled Polyaniline Nanotubes/Zelite Nanocomposite *LANGMUIR* Volume: 25 Issue: 5 Pages: 3122-3131 Published: MAR 3 2009
- 556.Ciric-Marjanovic G, Dragicevic L, Milojevic M, et al. Synthesis and Characterization of Self-Assembled Polyaniline Nanotubes/Silica Nanocomposites *JOURNAL OF PHYSICAL CHEMISTRY B* Volume: 113 Issue: 20 Pages: 7116-7127 Published: MAY 21 2009
- 557.McCullough, L.A., Matyjaszewski, K. Conjugated conducting polymers as components in block copolymer systems *Molecular Crystals and Liquid Crystals* 521: 1-55 (2010)
- 558.Ciric-Marjanovic, Gordana Polyaniline nanostructures Edited by Eftekhari, Ali, Nanostructured Conductive Polymers (2010), 19-98.
- 559.Ghiurea Marius; Spataru Catalin-Ilie; Donescu Dan; et al. Aniline Polymerization in Ethanol-water Mixtures *Materiale Plastice* 48 (3) 263-267 (2011)
- 560.Ghiurea M.; Spataru C. I.; Donescu D.; et al. Nanostructured phenomena during the aniline polymerization in water *Journal Of Optoelectronics And Advanced Materials* 13 (9-10) 1077-1081 (2011)
- 561.Brinis Hassene; Samar Mohamed El Hadi A method of making an aqueous dispersion of polyaniline and inhibiting corrosion in cooling water *Desalination and Water Treatment* 44 (1-3) 190-196 (2012)
- 562.J Wang, D Zhang One-dimensional nanostructured polyaniline: Syntheses, morphology controlling, formation mechanisms, new features, and applications *Advances in Polymer Technology*, 2013, 32(S1), E323–E368
- 563.P PAIK, R Manda, S Kumar, C Chaderpal Polyaniline Nanotubes with Rectangular-Hollow-Core and its Self-assembled Surface Decoration: high conductivity and dielectric properties *RSC Advances*, 2014 4, 12342-12352
- 564.D Donescu, M Ghiurea, CI Spătaru, G Stîngă, D F. Anghel, M Baibarac, I Baltog 1D-polyaniline starting from self-assembled systems, *Colloid and Polymer Science*, 2015, 293, 2515-2524.
- 565.AJ Hackett, J Malmstrom, P Molino, J Gautrot, hongrui zhang, M. Higgins, G. Wallace, D. E. Williams and J. Travas-Sejdic, Conductive surfaces with dynamic switching in response to temperature and salt, *J. Mater. Chem. B*, 2015, 3, 9285-9294.

Petrov P, Yuan JY, Yoncheva K, Müller, A.H.E., Tsvetanov, C.B. Wormlike morphology formation and stabilization of "Pluronic P123" micelles by solubilization of pentaerythritol tetraacrylate *Journal of Physical Chemistry B* 2008, 112(30),8879-8883

- 566.Jia NQ, Lian Q, Wang ZY, Shen, H. A hydrogen peroxide biosensor based on direct electrochemistry of hemoglobin incorporated in PEO-PPO-PEO triblock copolymer film *Sensors and Actuators B-Chemical* 2009, 137(1), 230-234
567. Feng Li, Laura H. J. de Haan, Antonius T. M. Marcelis, Frans A. M. Leermakers, Martien A. Cohen Stuart, Ernst J. R. Sudhölter Pluronic polymersomes stabilized by core cross-linked polymer micelles *Soft Matter* 2009, 5 (20): 4042-4046
- 568.Hasselt, P.M. van, PhD Thesis "Vitamin K prophylaxis revisited : Focus on risk factors" Utrecht University, The Netherlands, p.125, 2009
- 569.Cao, S.-W., Zhu, Y.-J., Wu, J., Wang, K.-W., Tang, Q.-L. Preparation and Sustained-Release Property of Triblock Copolymer/Calcium Phosphate Nanocomposite as Nanocarrier for Hydrophobic Drug *Nanoscale Research Letters* 2010, 5(4), 781-785
- 570.Lai, Zhongyu; Fang, Yun; Pang, Pingping Effect of surfactants on the morphology of self-assembly poly (styrene-co-acrylic acid) with ployvinylpyrrolidone in aqueous solution *AIChE Annual Meeting, Conference Proceedings*, Salt Lake City, UT, United States, Nov. 7-12, 2010 (2010), a67/1-a67/6.
- 571.Yong, Ken-Tye; Roy, Indrajit; Hu, Rui; Ye, Ling PEGylated block copolymer micelle-encapsulated quantum dots for in vitro and in vivo imaging *Journal of Bionanoscience* 2010, 4(1-2), 74-81.
- 572.Kelarakis A, Giannelis EP Nafion as Cosurfactant: Solubilization of Nafion in Water in the Presence of Pluronics *Langmuir* 2011, 27(2), 554-560
- 573.Céline Durand-Gasselin "Assemblages réversibles de nanoparticules d'or en solution
- 574.induits par des polymères thermosensibles" Thèse de doctorat de L'université Pierre et Marie Curie, France, 2011, p.125.

575. Paz-Simon, H.D., Chemtob, A., Crest, F., Croutxé-Barghorn, C., Michelin, L., Vidal, L., Rigolet, S., Lebeau, B. Thick mesostructured films via light induced self-assembly, *RSC Advances* 2012, 2 (31), 11944-11952
576. Y Cheng, T Li, C Fang, M Zhang, X Liu, R Yu, J Hu, Soft-templated synthesis of mesoporous carbon nanospheres and hollow carbon nanofibers - *Applied Surface Science*, 2013, 282(1) 862–869
577. A Daisy, R Saigoanker, S Jerome Das, R. Jaganathanc Amine-grafted Zeolites-Mesoporous Ceramics: Synthesis and Adsorption Characteristics *Ceramics International*, 40, Issue 5, June 2014, Pages 7583–7587
578. Arranja, Alexandra, André Schroder, Marc Schmutz, Gilles Waton, François Schosseler, and Eduardo Mendes. "Cytotoxicity and internalization of Pluronic micelles stabilized by core cross-linking," *Journal of Controlled Release*, 196, 87-95 (2014).
- 579.166. Somodi, Ferenc, Chang Sun Kong, Jerome C. Santos, and Daniel E. Morse. "Vesicular hydrogen silsesquioxane-mediated synthesis of nanocrystalline silicon dispersed in a mesoporous silica/suboxide matrix, with potential for electrochemical applications." *New Journal of Chemistry* 39, no. 1 (2015): 621-630.
580. X Hong, C Tan, J Liu, J Yang, XJ Wu, Z Fan, Z Luo, J Chen, X Zhang, B Chen, and H Zhang, AuAg nanosheets assembled from ultrathin AuAg nanowires, *J. Am. Chem. Soc.*, 2015, 137 (4), pp 1444–1447
581. Alexandra Arranja, PhD Thesis, Development of copolymer based nanocarriers for imaging and therapy. Université de Strasbourg, 2015
582. P. Parekh, S. Ohno, S. Yusa, E.V. Lage, M. Casas, I. Sánchez-Macho, V. K. Aswal, P. Bahadur, Surface and Aggregation Behavior of Pentablock Copolymer PNIPAM7-F127-PNIPAM7 in Aqueous Solutions, *J. Phys. Chem. B*, 2016, 120 (30), pp 7569–7578
583. Morais, A.F., Silva, I.G.N., Sree, S.P., Breynaert, E., Mustafa, D., Hierarchical self-supported ZnAlEu LDH nanotubes hosting luminescent CdTe quantum dots, *Chemical Communications*, 2017, 53(53), pp. 7341-7344
584. Cihan, E., Polat, M., Polat, H., Designing of spherical chitosan nano-shells with micellar cores for solvation and safeguarded delivery of strongly lipophilic drugs, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2017, 529, pp. 815-823
585. Ganguly, R., Kunwar, A., Kota, S., Kumar, S., Aswal, V.K., Micellar structural transitions and therapeutic properties in tea tree oil solubilized pluronic P123 solution, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2018, 537, pp. 478-484
586. Polat, M., Polat, H., Recent advances in chitosan-based systems for delivery of anticancer drugs ( Book Chapter), *Functional Chitosan: Drug Delivery and Biomedical Applications*, 2020, pp. 191-228
587. Polat, H., Kutluay, G., Polat, M., Analysis of dilution induced disintegration of micellar drug carriers in the presence of inter and intra micellar species, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2020, 601, 124989.
588. Crapnell, Robert D., Ryan J. Street, Valentine Ferreira-Silva, Michael P. Down, Marloes Peeters, and Craig E. Banks. "Electrospun Nylon Fibers with Integrated Polypyrrole Molecularly Imprinted Polymers for the Detection of Glucose." *Analytical Chemistry* 93, no. 39 (2021): 13235-13241.
589. Solis-Gonzalez, O.A., Avendaño-Gómez, J.R., Rojas-Aguilar, A., A thermodynamic study of F108 and F127 block copolymer interactions with liposomes at physiological temperature, *Journal of Liposome Research*, 2022, 32 (1), pp. 32-44.
590. Zeybek, Nüket. "Xylan based composite nanoparticles and biofoams for drug delivery and tissue engineering." PhD Thesis (2022) İzmir Institute of Technology.
591. Xu, Z. (2022). Structural Design Towards Functional Colloidal Microcapsules - Doctoral dissertation, New York University.
592. Causse, J., Lavaud, C., Ravaux, J., Lautru, J. and Podor, R., 2024. Characterization of complex micellar systems by Scattering techniques (SAXS and SANS) and wet-scanning transmission electron microscopy (wet-STEM). *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 682, p.132928.

Petrov P, Berlinova I, Tsvetanov CB, Rosselli S, Schmid A., Zilaei A.M., Miteva T., Dürr M., Yasuda A., Nelles G. High-molecular-weight polyoxirane copolymers and their use in high-performance dye-sensitized solar cells *Macromolecular Materials and Engineering* 2008, 293(7),598-604

593. Zhou YF, Xiang WC, Chen, S., Fang, S., Zhou, X., Zhang, J., Lin, Y. Influences of poly(ether urethane) introduction on poly(ethylene oxide) based polymer electrolyte for solvent-free dye-sensitized solar cells *Electrochimica Acta* 2009, 54(26), 6645-6650
594. Winther-Jensen, O., Armel, V., Forsyth, M., MacFarlane, D.R. In situ Photopolymerization of a Gel Ionic Liquid Electrolyte in the Presence of Iodine and Its Use in Dye Sensitized Solar Cells *Macromolecular Rapid Communications* 2010, 31 (5), 479-483
595. Xiong Yin, Weiwei Tan, Wangchun Xiang, Yuan Lin, Jingbo Zhang, Xurui Xiao, Xueping Li, Xiaowen Zhou, Shibi Fang, Novel chemically cross-linked solid state electrolyte for dye-sensitized solar cells *Electrochimica Acta*, 2010, 55 (20), 5803-5807.
596. Hagfeldt, A., Boschloo, G., Sun, L., Kloo, L., Pettersson, H. Dye-sensitized solar cells *Chemical Reviews* 2010, 110 (11), 6595-6663.
597. Feng, Xiaoming; Huang, Xianwei; Huang, Hui; Shen, Ping; Zhao, Bina; Tan, Songting Study of the TiO<sub>2</sub> Nanofibers Network Microporous Film for Organic Dye-sensitized Solar Cells *Acta Chimica Sinica* 2010,68(11), 1123-1129.
598. Book: J. N. De Freitas, J. E. Benedetti, F. S. Freitas, A. F. Nogueira, M. A. De Paoli Polymer electrolytes for dye-sensitized solar cells In *Polymer Electrolytes: Fundamentals And Applications* Editor(s): Sequeira, C; Santos, D, Book Series: Woodhead Publishing in Materials 2010, Pages: 381-430

599. Geng Y, Shi YT, Wang LD, et al. Photovoltage improvements and recombination suppression by montmorillonite addition to PEO gel electrolyte for dye-sensitized solar cells *Physical Chemistry Chemical Physics* 2011, 13 (6), 2417-2421
600. Anne-Laure Brocas, Christos Mantzaridis, Deniz Tunc, Stephane Carlotti, Polyether synthesis: From activated or metal-free anionic ring-opening polymerization of epoxides to functionalization, *Progress in Polymer Science*, 2013, 38 (6), 845-873
601. Yujian Huang, Wanchun Xiang, Xiaowen Zhou, Shibi Fang, Yuan Lin, The effect of oligo-organosiloxane on poly(ethylene oxide) electrolyte system for solid dye sensitized solar cells, *Electrochimica Acta*, 2013, 89, 29-34
602. AR Hess, GD Barber, C Chen, T Mallouk, H R. Allcock, Organophosphates as Solvents for Electrolytes in Electrochemical Devices *ACS applied materials & interfaces*, 2013, 5 (24), pp 13029-13034
603. M. Sethupathy, P. Pandey, P. Manisankap, Photovoltaic performance of dye-sensitized solar cells fabricated with polyvinylidene fluoride-polyacrylonitrile-silicon dioxide hybrid composite membrane *Materials Chemistry and Physics* 143(3), 1191-1198, 2014
604. F Bella, Polymer electrolytes and perovskites: lights and shadows in photovoltaic devices, *Electrochimica Acta* 175, 151-161, 2015
605. Book: S Carlotti, F Peruch *Cyclic Monomers: Epoxides, Lactide, Lactones, Lactams, Cyclic Silicon-Containing Monomers, Cyclic Carbonates, and Others*, In: *Anionic Polymerization: Principles, Practice, Strength, Consequences and Applications*, Eds. Nikos Hadjichristidis and Akira Hirao, Springer Japan, 2015 pp 191-305
606. Herzberger J, Niederer K, Pohlit H, Seiwert J, Worm M, Wurm F, Frey H, Polymerization of Ethylene Oxide, Propylene Oxide, and Other Alkylene Oxides: Synthesis, Novel Polymer Architectures, and Bioconjugation, *Chem. Rev.*, 2016, 116 (4), pp 2170-2243
607. Dong, C., Yu, D., Research progress of polymer composite system in solid electrolyte, *Cailiao Gongcheng/Journal of Materials Engineering*, 2022, 50 (4), pp. 15-35.

Petrov P, Tsvetanov CB, Jerome R Two-component "Onionlike" micelles with a PPO core, a PDMAEMA shell and a PEO corona: formation and crosslinking *Polymer International* 57(11), 2008, 1258-1264

608. Book: Volker Abetz, Adriana Boschetti-de-Fierro, and Jean-Francois Gohy in: *Controlled and Living Polymerizations. From Mechanisms to Applications*, Chapter 9: Morphologies in Block Copolymers, pp552, Eds. Matyjaszewski, K. and Müller, A. H. E. - Wiley-VCH (2009)
609. van Nostrum CF Covalently cross-linked amphiphilic block copolymer micelles *SOFT MATTER* Volume: 7 Issue: 7 Pages: 3246-3259 Published: 2011
610. Lienafa, Livie; Oberdisse, Julian; Mora, Serge; Monge, Sophie; Robin, Jean-Jacques Rheology and SANS on PET-b-PLAc-b-P(DMAEMAq) Triblock Copolymers: Impact of the PET and Polyelectrolyte Chain Length *Macromolecules* (2011), 44(13), 5326-5335.
611. Hussain, Hazrat; Amado, Elkin; Kressler, Jorg Functional Polyether-based Amphiphilic Block Copolymers Synthesized by Atom-transfer Radical Polymerization *Australian Journal of Chemistry* (2011), 64(9), 1181-1193.
612. Kontturi, K.S., Vesterinen, A.-H., Seppälä, J., Laine, J. Diverse 2D structures obtained by adsorption of charged ABA triblock copolymer on different surfaces, *Applied Surface Science* 2012, 261, pp. 375-384
613. Li, L., Wang, M.-L., Chen, Y., Jiang, S.-C. Multifunctional covalently stabilized vesicles acting simultaneously as the template of gold nanoparticle cluster and the nanocarrier of guest molecules *Journal of Colloid and Interface Science* 2012, 387 (1), pp. 146-152
614. J Hu, G Zhang, Z Ge, S Liu Stimuli-Responsive Tertiary Amine Methacrylate-Based Block Copolymers: Synthesis, Supramolecular Self-Assembly and Functional Applications, *Progress in Polymer Science*, 39(6), 2014, 1096-1143
615. Khandadash, Raz, Victoria Machtey, Inbal Shainer, Hugo E. Gottlieb, Yoav Gothilf, Yuval Ebenstein, Aryeh Weiss, and Gerardo Byk. "Novel biocompatible hydrogel nanoparticles: generation and size-tuning of nanoparticles by the formation of micelle templates obtained from thermo-responsive monomers mixtures." *Journal of Nanoparticle Research* 16, no. 12 (2014): 2796, 18p.
616. G. Kocak, C. Tuncer, V. Bütün, pH-Responsive polymers, *Polym. Chem.*, 2017, 8(1), pp. 144-176
617. Skinner, M., Johnston, B.M., Liu, Y., Perry, S.L., Emrick, T., Synthesis of Zwitterionic Pluronic Analogs, *Biomacromolecules*, 2018, 19(8), pp. 3377-3389
618. Qu, S., Liu, R., Duan, W., Zhang, W., RAFT Dispersion Polymerization in the Presence of Block Copolymer Nanoparticles and Synthesis of Multicomponent Block Copolymer Nanoassemblies, *Macromolecules*, 2019, 52(14), pp. 5168-5176
619. Aluani, D., Kondeva-Burdina, M., Tosheva, A., Yoncheva, K., Tzankova, V., Improvement of in vitro antioxidant activity of kaempferol by encapsulation in copolymer micelles, *Pharmacia*, 2022, 69 (1), pp. 25-29.
620. Gerardos, A.M., Balafouti, A. and Pispas, S., Mixed Copolymer Micelles for Nanomedicine. *Nanomanufacturing*, 2023, 3(2), pp. 233-247.

Gancheva, V., Petrov, P., Vladimirov, N., Velichkova, R., Mateva, R. Side reactions in the synthesis of triblock copolymers of nylon-6 with telechelic oligomers *POLYMER INTERNATIONAL* Volume: 57 Issue: 9 Published: SEP 2008 Pages: 1075-1078



621. Novitsky TF, Mathias LJ One-Pot Synthesis of Polyamide 12,T-Polyamide-6 Block Copolymers JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY 2011, 49 (10), 2271-2280

Satchanska, G., Topalova, Y., Dimkov, R., Petrov, P., Tsvetanov, C., Selenska-Pobell, S. Gorbovska, A., Bogdanov, V. Golovinsky, E. Phenol Biodegradation by Two Xenobiotics-Tolerant Bacteria Immobilized in Polyethylene Oxide Cryogels. Comptes rendus de l'Academie bulgare des Sciences, 2009, 62 (8), 957-964.

622. L. Yotova, D. Marinkova - Investigation of the formation, structure and application of biofilms, Journal of the University of Chemical Technology and Metallurgy, 2012, 47(3), 243-250

623. Spankulova, G., Gerginova, M., Peneva, N., Alexieva, Z., Molecular identification of petroleum-degrading bacteria and characterization of their biodegradation potential related phenol, Comptes Rendus de L'Academie Bulgare des Sciences, 2018, 71(11), pp. 1473-1478

624. Savina, I.N., Otero-Gonzalez, L. and Berillo, D., Macroporous Cryogel-Based Systems for Water Treatment Applications and Safety: Nanocomposite-Based Cryogels and Bacteria-Based Bioreactors. In Biomedical Applications and Toxicity of Nanomaterials 2023, pp. 1-49. Singapore: Springer Nature Singapore.

Petrov PD, Drechsler M, Muller AHE Self-Assembly of Asymmetric Poly(ethylene oxide)-block-Poly (n-butyl acrylate) Diblock Copolymers in Aqueous Media to Unexpected Morphologies Journal of Physical Chemistry B 2009, 113(13) 4218-4225

625. Ocampo C, Tercjak A, Martin MD, et al. Morphology Development in Thermosetting Mixtures through the Variation on Chemical Functionalization Degree of Poly(styrene-b-butadiene) Diblock Copolymer Modifiers. Thermomechanical Properties MACROMOLECULES Volume: 42 Issue: 16 Pages: 6215-6224 Published: AUG 25 2009

626. Zhong, S., Pochan, D.J Cryogenic transmission electron microscopy for direct observation of polymer and small-molecule materials and structures in solution Polymer Reviews 50 (3), pp. 287-320, 2010

627. Nicolai, T., Colombani, O., Chassenieux, C. Dynamic polymeric micelles versus frozen nanoparticles formed by block copolymers Soft Matter 6 (14), pp. 3111-3118, 2010

628. T. J. Cho, V. A. Hackley Fractionation and characterization of gold nanoparticles in aqueous solution: asymmetric-flow field flow fractionation with MALS, DLS, and UV-Vis detection, Anal Bioanal Chem (2010) 398:2003–2018

629. Yang, H., Jia, L., Zhu, C., Di-Cicco, A., Levy, D., Albouy, P.-A., Li, M.-H., Keller, P. Amphiphilic poly(ethylene oxide)-block-poly(butadiene-graft-liquid crystal) copolymers: Synthesis and self-assembly in water Macromolecules 43 (24), pp. 10442-10451, 2010

630. Fu, G.-D., Li, G.L., Neoh, K.G., Kang, E.T. Hollow polymeric nanostructures - Synthesis, morphology and function Progress in Polymer Science (Oxford) 36 (1), pp. 127-167, 2011

631. Cline Charbonneau, Christophe Chassenieux, Olivier Colombani, and Taco Nicolai Controlling the Dynamics of Self-Assembled Triblock Copolymer Networks via the pH Macromolecules, 2011, 44 (11), pp 4487–4495

632. Lejeune, Elise; Chassenieux, Christophe; Colombani, Olivier pH induced disaggregation of highly hydrophilic amphiphilic diblock copolymers Progress in Colloid and Polymer Science (2011), 138(Trends in Colloid and Interface Science XXIV), 7-16.

633. Kuntsche, Judith; Horst, Jennifer C.; Bunjes, Heike Cryogenic transmission electron microscopy (cryo-TEM) for studying the morphology of colloidal drug delivery systems International Journal of Pharmaceutics (2011), 417(1-2), 120-137.

634. Nayak, R.R., Yamada, T., Matsuoka, H. Non-surface activity of cationic amphiphilic diblock copolymers IOP Conference Series: Materials Science and Engineering 2011, 24 (1) , art. no. 012024

635. Ji, Shaowen; Lee, Ilsoon Recent progress on the preparation processes of hollow polymer nano and microspheres Current Trends in Polymer Science (2011), 15, 63-75.

636. Tercjak Agnieszka; Gutierrez Junkal; Dolores Martin Maria; et al. Transparent titanium dioxide/block copolymer modified epoxy-based systems in the long scale microphase separation threshold EUROPEAN POLYMER JOURNAL 48 (1)16-25 (2012)

637. de Hoog Hans-Peter M.; Nallani Madhavan; Tomczak Nikodem Self-assembled architectures with multiple aqueous compartments SOFT MATTER 8 (17) 4552-4561 (2012)

638. Salim Nisa V.; Hanley Tracey L.; Waddington Lynne; et al. A Simple and Effective Approach to Vesicles and Large Compound Vesicles via Complexation of Amphiphilic Block Copolymer With Polyelectrolyte in Water MACROMOLECULAR RAPID COMMUNICATIONS 33 (5) 401-406 (2012)

639. Dutertre Fabien; Boyron Olivier; Charleux Bernadette; et al. Transforming Frozen Self-Assemblies of Amphiphilic Block Copolymers Into Dynamic pH-Sensitive Micelles MACROMOLECULAR RAPID COMMUNICATIONS 33 (9) Special Issue: SI Pages: 753-759 (2012)

640. Colombani, Olivier; Lejeune, Elise; Charbonneau, Celine; Chassenieux, Christophe; Nicolai, Taco Ionization Of Amphiphilic Acidic Block Copolymers Journal of Physical Chemistry B (2012), 116(25), 7560-7565.

641. Talom, R.M., Fuks, G., Mingotaud, C., Gineste, S., Gauffre, F. Investigation of the reversibility of the unimer-to-aggregate transition in block copolymers by surface tension-measurements Journal of Colloid and Interface Science 2012, 387 (1) , pp. 180-186



642. Weissman, H., Rybtchinski, B. Noncovalent self-assembly in aqueous medium: Mechanistic insights from time-resolved cryogenic electron microscopy *Current Opinion in Colloid and Interface Science* 17 (6) , pp. 330-342 (2012)
643. McKenzie, B.E., Holder, S.J., Sommerdijk, N.A.J.M. Assessing internal structure of polymer assemblies from 2D to 3D CryoTEM: Bicontinuous micelles *Current Opinion in Colloid and Interface Science* 17 (6) , 343-349 (2012)
644. S. Hocine, D Cui, MN Rager, A Di-Cicco, JM Liu, J. Wdzieczak-Bakala , A. Brûlet, and M.-H. Li Polymersomes with PEG Corona: Structural Changes and Controlled Release Induced by Temperature Variation *Langmuir*, 2013, 29 (5), 1356–1369
645. X Huang, B Voit Progress on multi-compartment polymeric capsules *Polymer Chemistry*, 2013, 4, 435-443.
646. L Li, M Yan, G Zhang, C Wu Self-Assembly Assisted Polypolymerization (SAAP) of Diblock Copolymer Chains with Two Reactive Groups at Its Insoluble End *Macromolecules*, 2013, 46 (20), pp 8152–8160
647. L Wang, T Jiang, J Lin Self-assembly of graft copolymers in backbone-selective solvents: a route toward stable hierarchical vesicles *RSC Advances*, 2013, 3, 19481-19491
648. Salim, N.V., Hameed, N., Hanley, T.L., Waddington, L.J., Hartley, P.G., Guo, Q. Nanofibrillar micelles and entrapped vesicles from biodegradable block copolymer/polyelectrolyte complexes in aqueous media *Langmuir* 2013, 29 (29), 9240-9248
649. L Jia, MH Li Liquid crystalline polymer vesicles: thermotropic phases in lyotropic structures *Liquid Crystals*, 41(3), 368-384, 2014
650. N Sakai, T Satoh, T Kakuchi Rod-Like Amphiphile of Diblock Polyisocyanate Leading to Cylindrical Micelle and Spherical Vesicle in Water *Macromolecules*, 2014, 47 (5), pp 1699–1704
651. M. Wagner , S. Holzschuh , A. Traeger , A. Fahr , and U. S. Schubert Asymmetric flow field-flow fractionation in the field of nanomedicine *Anal. Chem.*, 2014, 86 (11), pp 5201–5210
652. J Wang, YM Xia, YP Wang, YM Wang The Mineralization of Calcium Carbonate in Mixed Solvent Controlled by Polystyrene-*b*-poly (vinyl pyrrolidone) *Advanced Materials Research* 1015, 2014, 472-475
653. M Wagner, MJ Barthel, RRA Freund, S Hoeppener, A. Traeger, F. H. Schacher, U. S. Schubert Solution self-assembly of poly(ethylene oxide)-block-poly(furfuryl glycidyl ether)-block-poly(allyl glycidyl ether) based triblock terpolymers: a field-flow fractionation study *Polymer Chemistry*, 2014, 5 (24), pp. 6943-6956
654. JK Szymański, J Pérez-Mercader A straightforward synthetic route to polymersomes with simple molecules as precursors *Langmuir*, 2014, 30 (38), pp 11267–11271
655. K Sakai-Kato, N Nishiyama, M Kozaki , T Nakanishi, Y Matsuda, M Hirano, H Hanada, S Hisada, H Onodera, H Harashima, Y Matsumura, K Kataoka, Y Goda, H Okuda, T Kawanishi General considerations regarding the in vitro and in vivo properties of block copolymer micelle products and their evaluation, *Journal of Controlled Release* 2015, 210, 76–83
656. B E. McKenzie, H. Friedrich, M. J. M. Wirix, J. F. de Visser, O R. Monaghan, P H. H. Bomans, F Nudelman, S J. Holder, N A. J. M. Sommerdijk, Controlling Internal Pore Sizes in Bicontinuous Polymeric Nanospheres, *Angewandte Chemie*, 2015, 127(8) 2487–2491
657. ZZ Tong, RY Wang, J Huang, JT Xu, ZQ Fan, Regulation of the self-assembly morphology of azobenzene-bearing double hydrophobic block copolymers in aqueous solution by shifting the dynamic host–guest complexation, *Polymer Chemistry*, 2015, 6, 2214-2225
658. X Dai, H Ding, Q Yin, G Wan, X Shi, Y Qiao, Dissipative particle dynamics study on self-assembled platycodin structures: The potential biocarriers for drug delivery, *Journal of Molecular Graphics and Modelling*, 2015, 57, 20–26
659. P Raffa, D A Z Wever, F Picchioni, A. A. Broekhuis Polymeric Surfactants: Synthesis, Properties, and Links to Applications, *Chem. Rev.*, 2015, 115(16), 8504-8563
660. L Xu, X Liang, L Zhang, J Wu, Z Li, M Yu, L. Wei, The vesicle formation of  $\beta$ -CD and AD self-assembly of dumbbell-shaped amphiphilic triblock copolymer, *Colloid and Polymer Science*, 294, 2016, 145-155
661. PP Kumar, RR Nayak, A Shivaraju, N Amarnath, B. Sreedhar, P. P. Chakrabarti, S. Kanjilal Stimuli Responsive Self-Assembly of 3-(Octyloxy)-3-Oxopropyl Acrylate-Co-Acrylic Acid Polymer in Aqueous Media, *Journal of Surfactants and Detergents*, 2016, 19, 619–626.
662. MI Malik, H Pasch, Field-Flow Fractionation: New and Exciting Perspectives in Polymer Analysis, *Progress in Polymer Science*, 2016, 63, 42–85
663. C Fetsch, J Gaitzsch, L Messenger, G Battaglia, R Luxenhofer, Self-Assembly of Amphiphilic Block Copolypeptoids – Micelles, Worms and Polymersomes, *Scientific Reports* 6, Article number: 33491 (2016)
664. T Yang, W Li, X Duan, L Zhu, L Fan, Y Qiao, H Wu Preparation of Two Types of Polymeric Micelles Based on Poly ( $\beta$ -L-Malic Acid) for Antitumor Drug Delivery, *PLOS ONE*, 2016
665. MJ York-Durán, M Godoy-Gallardo, C Labay, A.J. Urquhart, T.L. Andresen, L. Hosta-Rigau, Recent advances in compartmentalized synthetic architectures as drug carriers, cell mimics and artificial organelles *Colloids and Surfaces B: Biointerfaces*, 152( 2017) 199–213
666. Bastakoti, B.P., Perez-Mercader, J., Facile One-Pot Synthesis of Functional Giant Polymeric Vesicles Controlled by Oscillatory Chemistry, *Angewandte Chemie - International Edition*, 2017, 56(40), pp. 12086-12091
667. Shen, P., Qiu, L., Dual-responsive recurrent self-assembly of a supramolecular polymer based on the host-guest complexation interaction between  $\beta$ -cyclodextrin and azobenzene, *New Journal of Chemistry*, 2018, 42(5), pp. 3593-3601.
668. Wang, M., Choi, B., Wei, X., Feng, A., Thang, S.H., Synthesis, self-assembly, and base-pairing of nucleobase end-functionalized block copolymers in aqueous solution, *Polymer Chemistry*, 2018, 9(41), pp. 5086-5094

- 669.Wang, S., Phadke, S., Zhao, Z., Beirne, J., Redmond, G., Polymer Nanoparticles Microenvironment: Using Photophysical Probes to Investigate Internal Porosity and Polarity, *Journal of Physical Chemistry C*, 2018, 122(50), pp. 28977-28989
- 670.Gardey, E., Sobotta, F.H., Hoepfner, S., Stallmach, A., Brendel, J.C. Influence of Core Cross-Linking and Shell Composition of Polymeric Micelles on Immune Response and Their Interaction with Human Monocytes, *Biomacromolecules*, 2020, 21(4), pp. 1393-1406
- 671.Azeri, Ö., Schönfeld, D., Noirez, L., Gradzielski, M., Structural control in micelles of alkyl acrylate-acrylate copolymers via alkyl chain length and block length, *Colloid and Polymer Science*, 2020, 298(7), pp. 829-840
- 672.Ventouri, I.K., Loeber, S., Somsen, G.W., Schoenmakers, P.J., Astefanei, A., Field-flow fractionation for molecular-interaction studies of labile and complex systems: A critical review *Analytica Chimica Acta*, 2022, 1193, art. no. 339396.
- 673.Gao Z, Cui X, Cui J. Multicompartment Polymer Capsules. *Supramolecular Materials*. 2022, 1, 100015.
- 674.Koroleva, M., Multicompartment colloid systems with lipid and polymer membranes for biomedical applications. *Physical Chemistry Chemical Physics*, 2023, 25(33), pp.21836-21859.

Petrov P, Tsvetanov CB, Jerome R Stabilized Mixed Micelles with a Temperature-Responsive Core and a Functional Shell *Journal of Physical Chemistry B* 2009, 113 (21), 7527-7533

- 675.Tan, W.S., Cohen, R.E., Rubner, M.F., Sukhishvili, S.A. Temperature-Induced, Reversible Swelling Transitions in Multilayers of a Cationic Triblock Copolymer and a Polyacid Macromolecules 2010, 43 (4), 1950-1957
- 676.Yongli Zheng, Ling Zhong, Wei Huang, Yongfeng Zhou, Deyue Yan Flocculation-Resistant Multimolecular Micelles with Thermoresponsive Corona from Dendritic Heteroarm Star Copolymers *Journal of Polymer Science: Part A: Polymer Chemistry*, 2010, 48, 4428-4438
- 677.Pierre-Eric Millard "Synthesis of responsive homo- and block copolymers, application to the generation of inorganic-organic nanohybrids" PhD Thesis, University of Bayreuth, Germany, 2010, p.177.
- 678.Ma Li; Geng Haiping; Song, J., Li, J., Chen, G., Li, Q. Hierarchical Self-Assembly of Polyhedral Oligomeric Silsesquioxane End-Capped Stimuli-Responsive Polymer: From Single Micelle to Complex Micelle *Journal of Physical Chemistry B* 2011, 115 (36),10586-10591
- 679.Yi Zhuan; Zhu Liping; Xu Youyi; Jiang, J., Zhu, B. Polypropylene Glycol: The Hydrophilic Phenomena in the Modification of Polyethersulfone Membranes *Industrial & Engineering Chemistry Research* 2011, 50(19),11297-11305
680. Alexander A. Steinschulte, Bjoern Schulte, Michael Erberich, Oleg V. Borisov, and Felix A. Plamper Unimolecular Janus Micelles by Microenvironment-Induced, Internal Complexation *ACS Macro Letters* 2012, 1 (4) 504-507
681. Lysenko, E.A., Kulebyakina, A.I., Grinevich, R.S., Chelushkin, P.S., Zezin, A.B. Influence of a strong polyelectrolyte block on the formation and properties of polymer micelles with a mixed corona *Polymer Science Series A* 2012, 54 (4) 255-263
682. Leung, B.O., Yang, Z., Wu, S.S.H., Chou, K.C. Role of Interfacial Water on Protein Adsorption at Cross-Linked Polyethylene Oxide Interfaces *Langmuir* 2012, 28(13) 5724-5728
- 683.Li, Lei; Cheng, Cheng; Schuerings, Marco P.; Zhu, Xiaomin; Pich, Andrij Aqueous microgels modified by wedge-shaped amphiphilic molecules via acid-base interaction: Effect of alkyl chain length *Polymer* 2012, 53(15), 3117-3123.
- 684.Chiappisi, L., Lazzara, G., Gradzielski, M., Milioto, S. Quantitative description of temperature induced self-aggregation thermograms determined by differential scanning calorimetry *Langmuir* 2012, 28 (51), 17609-17616
- 685.S Vaidya, A Kar, A Patra, AK Ganguli, CoreShell (CS) Nanostructures and Their Application Based on Magnetic and Optical Properties- Reviews in Nanoscience, 2013, 2(2),106-126(21)
- 686.W Ian, L Guo Jun - Self-assembly and chemical processing of block copolymers: a roadmap towards a diverse array of block copolymer nanostructures, *Science China Life Sciences*, 2013, 56(1) 1-27
- 687.A Steinschulte, B Schulte, S Ruetten, T. Eckert, J Okuda, M Möller, S Schneider, O Borisov, F Plamper, Effects of Architecture on the Stability of Thermosensitive Unimolecular Micelles *Phys. Chem. Chem. Phys.*, 2014, 16, 4917-4932
- 688.Nandni, Durgesh, PhD Thesis: "Effect of different additives on the aggregation behavior of surfactants triblock polymers." (2014).Guru Nanak Dev University, Dept. of Chemistry, 20 Aug 2014, India.
- 689.Sharma, Munish K., Parham Rohani, Sha Liu, Mark Kaus, and Mark T. Swihart. "Polymer and Surfactant-Templated Synthesis of Hollow and Porous ZnS Nano-and Microspheres in a Spray Pyrolysis Reactor." *Langmuir* 2015, 31 (1), pp. 413-423
- 690.Q Wu, X Tang, X Liu, Y Hou, H Li, C. Yang, J. Yi, X. Song, G. Lin Zhang Thermo/pH Dual Responsive Mixed-Shell Polymeric Micelles Based on the Complementary Multiple Hydrogen Bonds for Drug Delivery, *Chemistry—An Asian Journal*, 11(1), 2016, 112-119.
- 691.Hebbeker, P., Steinschulte, A.A., Schneider, S., Plamper, F.A., Balancing Segregation and Complexation in Amphiphilic Copolymers by Architecture and Confinement, *Langmuir*, 2017, 33(17), pp. 4091-4106.
- 692.Lysenko, E.A., Bilan, R.S., Chelushkin, P.S., Block-copolymer micelles with a interpolyelectrolyte crown, *Polymer Science - Series C*, 2017, 59(1), pp. 35-48
- 693.Huang, H., Ren, D., Qu, J., pH and temperature-responsive POSS-based poly(2-(dimethylamino)ethyl methacrylate) for highly efficient Cr(VI) adsorption, *Colloid and Polymer Science*, 2020, 298(11), pp. 1515-1521.

- 694.Zhang, M., Wang, S., Xin, Y.,Wu, Q., Zhang, G., Preparation and Drug Delivery Properties of Thermo/pH Dual Responsive Copolymer Composite Micelles of MPEG-b-PCL/PNVCL-b-PCL, Chemical Journal of Chinese Universities, 2020, 41(12), pp. 2822-2831
- 695.Mecca, S., 2023. Surfactant enhanced synthetic strategies for luminescent nanomaterials and stabilized colloids. PhD thesis, <https://boa.unimib.it/handle/10281/414322>

Kolev D, Zhang X, Petrov P, Boshkov N, Van Breugel K, De Wit J.H.W., Mol1 J.M.C. and Tsvetkova N. Zinc Composite Layers, Incorporating Polymeric Nano-aggregates: Surface Analysis and Electrochemical Behavior ECS Transactions, 2008, 11(11), pp. 27–35

- 696.Ciubotariu, A.C., Benea, L., Ponthiaux, P. Corrosion resistance of zinc–resin hybrid coatings obtained by electro-codeposition, Arabian Journal of Chemistry, 2019, 12(8), pp. 4427-4437.
- 697.Muresan, A.C., Buruiana, D.L., Carp, G.B., Berbec, S., Trus, C., Evaluation of corrosion resistance in 3.5% NaCl solution of hybrid coatings obtained from plastics materials, Materiale Plastice, 2021, 58(1), pp. 201-209

Petrov P, Petrova E, Tsvetanov CB UV-assisted synthesis of super-macroporous polymer hydrogels Polymer 2009, 50(5), 1118-1123

- 698.Hui Li, Xiao-Yan Li, Synthesis and Characterization of Temperature/pH Double-Sensitive Hydroxypropylcellulose/ Sodium Alginate Hydrogel Journal of Fiber Bioengineering and Informatics 2009, 2 (3), 168-172
- 699.Svec F Porous polymer monoliths: Amazingly wide variety of techniques enabling their preparation Journal of Chromatography A 2010, 1217 (6): 902-924
- 700.Д. Христова, Р. Величкова, С. Иванова, К. Милева, Списание на БАН, СХХIII, 2010 (2) 42-49.
- 701.Zhu, X., Lu, P., Chen, W., Dong, J. Studies of UV crosslinked poly(N-vinylpyrrolidone) hydrogels by FTIR, Raman and solid-state NMR spectroscopies Polymer 2010, 51 (14), 3054-3063.
- 702.Ijeri, V.S., Nair, J.R., Gerbaldi, C., Gonnelli, R.S., Bodoardo, S., Bongiovanni, R.M. An elegant and facile single-step UV-curing approach to surface nano-silvering of polymer composites Soft Matter 2010, 6 (19), 4666-4668.
- 703.Nair, J.R., Ijeri, V.S., Gerbaldi, C., Bodoardo, S., Bongiovanni, R., Penazzi, N. Novel self-directed dual surface metallisation via UV-curing technique for flexible polymeric capacitors Organic Electronics: physics, materials, applications 2010, 11 (11), 1802-1808.
- 704.Li, H., Gong, G.L. Synthesis and characterization of temperature/pH-sensitive hydroxypropylcellulose/ sodium alginate hydrogel E-Polymers , art. no. 125, 2010
- 705.Gong, G.-L., Li, H., Guo, Z. Swelling characterization of double sensitive hydroxypropylcellulose / sodium alginate hydrogel Advanced Materials Research 2011, 221, 184-188.
706. Kirsebom H, Mattiasson B Cryostructuration as a tool for preparing highly porous polymer materials Polymer Chemistry 2011, 2 (5), 1059-1062
- 707.Liu, Haiyan; Liu, Mingquan; Bai, Ligai; Sun, Suying; Liu, Yankun; Yang, Gengliang Investigation of temperature-responsivity and aqueous chromatographic characteristics of a thermo-responsive monolithic column Talanta 2011, 85(2), 1193-1198.
- 708.de Hazan Yoram Porous Ceramics, Ceramic/Polymer, and Metal-Doped Ceramic/Polymer Nanocomposites via Freeze Casting of Photo-Curable Colloidal Fluids Journal of the American Ceramic Society 2012, 95(1), 177-187.
- 709.Meid Judith; Dierkes Fiete; Cui Jun; Messing, R., Crosby, A.J., Schmidt, A., Richtering, W. Mechanical properties of temperature sensitive microgel/polyacrylamide composite hydrogels-from soft to hard fillers Soft Matter 2012, 8(15), 4254-4263
- 710.Zaborina O. E.; Buzin M. I.; Lozinsky V. I. Cryopolymerization of N,N-dimethylacrylamide in moderately frozen formamide Polymer Science Series B 2012, 54(5-6), 306-313
- 711.Say Ridvan; Bicen Ozlem; Yilmaz Filiz; Hür, D., Öziç, R., Denizli, A., Ersöz, A. Novel protein photocrosslinking and cryopolymerization method for cryogel-based antibacterial material synthesis Journal of Applied Polymer Science 2012,125(1), 145-151
- 712.Dinu, M.V., Schwarz, S., Dinu, I.A., Drăgan, E.S. Comparative rheological study of ionic semi-IPN composite hydrogels based on polyacrylamide and dextran sulphate and of polyacrylamide hydrogels Colloid and Polymer Science 2012, 290 (16) , 1647-1657
- 713.Zhou, S., Bismarck, A., Steinke, J.H.G. Thermoresponsive macroporous scaffolds prepared by emulsion templating Macromolecular Rapid Communications 2012, 33 (21) , 1833-1839
- 714.Todorova, Yovana; Kirilova, Mihaela; Dimkov, Raycho; Topalova, Yana The comparison of amaranth decolorization ability for two types of biological consortia Journal of Life Sciences (El Monte, CA, United States) 2012, 6(5), 550-556
- 715.Zhou, Shengzhong; Bismarck, Alexander; Steinke, Joachim H. G Thermoresponsive Macroporous Scaffolds Prepared by Emulsion Templating Macromolecular Rapid Communications 2012, 33(21), 1833-1839
- 716.Solmaz Hajizadeh PhD Thesis “Composite Cryogels: Stationary Phase for Separation of Complex Media” Lund University, Sweden, Lund, December 2012
- 717.Gun'ko, V.M., Savina, I.N., Mikhalovsky, S.V. Cryogels: Morphological, structural and adsorption characterization Advances in Colloid and Interface Science 2013, 187–188, 1–46

- 718.Senta Reichelt , Christian Abe , Stefan Hainich , Wolfgang Knolle , Ulrich Decker , Andrea Prager and Robert Konieczny Electron-beam derived polymeric cryogels *Soft Matter*, 2013,9, 2484-2492
- 719.Michael Barrow and Haifei Zhang Aligned porous stimuli-responsive hydrogels via directional freezing and frozen UV initiated polymerization *Soft Matter*, 2013, 9, 2723-2729
- 720.Shudian Zheng, Tao Wang, Dan Liu, Xinxing Liu, Chaoyang Wang, Zhen Tong Fast deswelling and highly extensible poly(N-isopropylacrylamide)-hectorite clay nanocomposite cryogels prepared by freezing polymerization *Polymer* 2013, 54(7), 1846–1852
- 721.S Reichelt, A Prager, C Abe, W Knolle Tailoring the structural properties of macroporous electron-beam polymerized cryogels by pore forming agents and the monomer selection *Radiation Physics and Chemistry*, 2014, 94, 40–44
- 722.S. Reichelt, J. Becher, J. Weisser, A. Prager, U. Decker, S. Möller, A. Berg, M. Schnabelrauch, Biocompatible polysaccharide-based cryogels, *Materials Science and Engineering: C*, 35, 2014, 164–170
- 723.VI Lozinsky A brief history of polymeric cryogels in *Polymeric Cryogels: Macroporous Gels with Remarkable Properties*, *Advances in Polymer Science* 263, 2014, pp 1-48
- 724.O Okay, VI Lozinsky Synthesis and structure–property relationships of cryogels in *Polymeric Cryogels: Macroporous Gels with Remarkable Properties*, *Advances in Polymer Science* 263, 2014, pp 103-157
- 725.Синицына Екатерина Сергеевна, диссертация, кхн: „Полимерные монолитные материалы для биочипов с контролируемой пористостью и различными реакционноспособными группами“, ИВС АН СССР, Санкт Петербург, 2014, 02.00.06 Высокомолекулярные соединения.
- 726.Gry Ravn Jespersen, PhD Thesis: Cryogels as solid supports in bioprocessing, University of Lund, Sweden, March 2014.
- 727.Sinitsyna, Olga, Nadejda Davydova, Vladimir N. Sergeev, and Elena Laukhina. "Nanostructured Films by the Self-Assembly of Bioactive Copolymer." *RSC Advances*, 4 (98) 55565-55570 (2014).
- 728.Book: S Hajizadeh, B Mattiasson, Cryogels with Affinity Ligands as Tools in Protein Purification, In: *Affinity Chromatography: Methods and Protocols*, Editor Senta Reichelt, 2015, 1286:183-200
- 729.SL Loo, WB Krantz, AG Fane, X Hu, TT Lim Effect of synthesis routes on the properties and bactericidal activity of cryogels incorporated with silver nanoparticles, *RSC Advances*, 2015, 2015,5, 44626-44635.
- 730.Book: S Reichelt, Introduction to Macroporous Cryogels, In: *Affinity Chromatography: Methods and Protocols*, Editor Senta Reichelt, 2015 Volume 1286, pp 173-181
- 731.MM Ozmen, Q Fu, J Kim, GG Qiao, A rapid and facile preparation of novel macroporous silicone-based cryogels via photo-induced thiol-ene click chemistry, *Chemical Communications*, 2015, 51, 17479-17482
- 732.BC Lim, BS Singu, SE Hong, YH Na, KR Yoon, Synthesis and characterization nanocomposite of polyacrylamide-rGO-Ag-PEDOT/PSS hydrogels by photo polymerization method, *Polymers for Advanced Technologies*, 27 (2016) 366-373
- 733.S. Thönes, L.M. Kutz, S. Oehmichen, J. Becher, K. Heymann, A. Saalbach, W. Knolle, M. Schnabelrauch, S. Reichelt, U. Anderegg, New E-beam-initiated hyaluronan acrylate cryogels support growth and matrix deposition by dermal fibroblasts, *International Journal of Biological Macromolecules*, 94, Part A, 2017, 611–620
- 734.Zou, X., Deng, P., Zhou, C., Liang, F., Liao, L., Preparation of a novel antibacterial chitosan-poly(ethylene glycol) cryogel/silver nanoparticles composites, *Journal of Biomaterials Science, Polymer Edition*, 2017, 28(13), pp. 1324-1337
- 735.Schroeder, W.F., Williams, R.J.J., Hoppe, C.E., Romeo, H.E., Unidirectional freezing as a tool for tailoring air permeability in macroporous poly(ethylene glycol)-based cross-linked networks, *Journal of Materials Science*, 2017, 52(23), pp. 13669-13680
- 736.Aregueta-Robles, U.A., Martens, P.J., Poole-Warren, L.A., Green, R.A., Tailoring 3D hydrogel systems for neuronal encapsulation in living electrodes, *Journal of Polymer Science, Part B: Polymer Physics*, 2018, 56(4), pp. 273-287.
- 737.Shah, S., Shaikh, H., Memon, N., Khan, H., Denizli, A., Preparation, characterization, and binding profile of imprinted semi-IPN cryogel composite for aluminum, *Turkish Journal of Chemistry*, 2020, 44(4), pp. 901-922.
- 738.Baimenov, A., Berillo, D.A., Pouloupoulos, S.G., Inglezakis, V.J., A review of cryogels synthesis, characterization and applications on the removal of heavy metals from aqueous solutions, *Advances in Colloid and Interface Science*, 2020, 276,102088.
- 739.You, Z., Behl, M., Grage, S.L., Ulrich, A.S., Lendlein, A., Shape-Memory Effect by Sequential Coupling of Functions over Different Length Scales in an Architected Hydrogel, *Biomacromolecules*, 2020, 21(2), pp. 680-687
- 740.Haleem, A., Li, H.-J., Li, P.-Y., Chen, S.-Q., He, W.-D., Rapid UV-radiation synthesis of polyacrylate cryogel oil-sorbents with adaptable structure and performance, *Environmental Research*, 2020, 187,109488
- 741.Mert, H., Özkahraman, B., Damar, H. A novel wound dressing material: Pullulan grafted copolymer hydrogel via UV copolymerization and crosslinking, *Journal of Drug Delivery Science and Technology*, 2020, 60,101962
- 742.Sakakibara, Noritaka, Kengo Iwase, Takeru Koike, Tsuyohito Ito, and Kazuo Terashima. "Cryoplasma-mediated fabrication of Au-TiO2 composite film using freezing ice front templated structures." *Journal of Applied Physics* 129, no. 24 (2021): 244903.
- 743.Nicol, Erwan. "Photopolymerized Porous Hydrogels." *Biomacromolecules* 22, no. 4 (2021): 1325-1345.
- 744.Masullo, Ugo, Anna Cavallo, Maria Raffaella Greco, Stephan J. Reshkin, Maria Mastrodonato, Nunzia Gallo, Luca Salvatore et al. "Semi-interpenetrating polymer network cryogels based on poly (ethylene glycol) diacrylate and collagen as potential off-the-shelf platforms for cancer cell research." *Journal of Biomedical Materials Research Part B: Applied Biomaterials* 2021, 109(9), 1313-1326

- 745.Jones, Luke O., Leah Williams, Tasmin Boam, Martin Kalmet, Chidubem Oguike, and Fiona L. Hatton. "Cryogels: recent applications in 3D-bioprinting, injectable cryogels, drug delivery, and wound healing." *Beilstein Journal of Organic Chemistry* 17, no. 1 (2021): 2553-2569.
- 746.Goto, Taku, Noritaka Sakakibara, Kenichi Inoue, Koichi Mayumi, Yoshiki Shimizu, Tsuyohito Ito, Kohzo Ito, Yukiya Hakuta, and Kazuo Terashima. "Fabrication of flexible porous slide-ring polymer/carbon nanofiber composite elastomer by simultaneous freeze-casting and cross-linking reaction with dimethyl sulfoxide." *Composites Science and Technology* 215 (2021): 109028.
- 747.NIR, E.M.E., 2021. PROGRAMA DE PÓS-GRADUAÇÃO EM ENGENHARIA E CIÊNCIA DE ALIMENTOS (Doctoral dissertation, Universidade Estadual do Sudoeste da Bahia).
- 748.Vásquez L, Dziza K, Loo SL, Binas V, Stefa S, Kiriakidis G, Athanassiou A, Fragouli D. Highly performant nanocomposite cryogels for multicomponent oily wastewater filtration. *Separation and Purification Technology*. 2022, 303, 122252.
- 749.Aguilar, Ludwig Erik. Chapter 3 Methods in biomaterials, In *Biomaterial Science: Anatomy and Physiology Aspects*. Walter de Gruyter GmbH & Co KG, pp. 151- 221, 2022.
- 750.Kudaibergen, G., Akhmetkarimova, Z., Yildirim, E. and Baidarbekov, M., Thiol-ene clickable gelatin-hyaluronic acid cryogels. *Journal of Materials Science*, 2023, pp.1-11.
- 751.Babanejad, N., Mfoafo, K., Thumma, A., Omid, Y. and Omidian, H.,Advances in cryostructures and their applications in biomedical and pharmaceutical products. *Polymer Bulletin*, 2023, pp.1-48.
- 752.Carriero, V.C.; Di Muzio, L.; Petralito, S.; Casadei, M.A.; Paolicelli, P. Advances and Challenges in Cryogel-Based Tissue Engineering for Effective Bone and Cartilage Reconstruction. *Preprints* 2023,2023111021. <https://doi.org/10.20944/preprints202311.1021.v1>

Petrov P, Momekova D, Kostova B, Momekov G, Toncheva-Moncheva N, Tsvetanov C. B. Lambov N. Super-macroporous poly (ethoxytriethyleneglycol acrylate) hydrogels for sustained delivery of hydrophilic drugs *Journal of Controlled Release* 2010, 148 (1), e81-e82

- 753.G Vancoillie, D Frank, R Hoogenboom Thermoresponsive poly (oligo ethylene glycol acrylates *Progress in Polymer Science*, 2014, 39( 6), 1074–1095
- 754.Sinitsyna, O.V., Davydova, N.K., Sergeev, V.N., Laukhina, E.E. Nanostructured films by the self-assembly of bioactive copolymer *RSC Advances* 2014, 4(98), 55565-55570.
- 755.Sahn, M., Stafast, L.M., Dirauf, M., Weber, C., Schubert, U.S. LCST behavior of poly(2-ethyl-2-oxazoline) containing diblock and triblock copolymers, *European Polymer Journal*, 2018, 100, pp. 57-66
- 756.Vancoillie, G., Van Guyse, J.F.R., Voorhaar, L., Holder, E., Hoogenboom, R. Understanding the effect of monomer structure of oligoethylene glycol acrylate copolymers on their thermoresponsive behavior for the development of polymeric sensors, *Polymer Chemistry*, 2019, 10(42), pp. 5778-5789
- 757.Haleem, A., Li, H.-J., Li, P.-Y., Chen, S.-Q., He, W.-D., Rapid UV-radiation synthesis of polyacrylate cryogel oil-sorbents with adaptable structure and performance, *Environmental Research*, 2020, 187,109488

Petrov, P., Georgiev, G., Momekova, D., Momekov, G., Tsvetanov, C.B. UV-assisted grafting of polymers: A method towards biocompatible carbon nanotubes *Polymer* 2010, 51(12) 2465-2471

- 758.Lee RS, Chen WH, Lin JH Polymer-grafted multi-walled carbon nanotubes through surface-initiated ring-opening polymerization and click reaction *Polymer* 2011, 52 (10) 2180-2188
- 759.Gruenler, Bernd; Schimanski, Arnd; Pfuch, Andreas; Heft, Andreas; Spange, Stefan Polymer-functionalized carbon nanotubes and process for their production *Ger. Offen.* (2012), DE 102011009469 A1 20120726.
- 760.Book: *Advances in Carbon Research and Application: 2011 Edition* By Q. Ashton Acton, PhD - Page 117
- 761.Mansur, H.S., Pereira, M.M., Costa, H.S., Mansur, A.A.P. Mechanical behavior of nanostructured hybrids based on poly(vinyl alcohol)/bioactive glass reinforced with functionalized carbon nanotubes *Journal of Nanomaterials* 2012 , art. no. 386236
- 762.Daraei, P., Madaeni, S.S., Ghaemi, N., Ahmadi Monfared, H., Khadivi, M.A. Fabrication of PES nanofiltration membrane by simultaneous use of multi-walled carbon nanotube and surface graft polymerization method: Comparison of MWCNT and PAA modified MWCNT *Separation and Purification Technology* 2013, 104 , 32-44
- 763.Islam, Md. Rafiqul; Bach, Long Giang; Vo, Thanh-Sang; Tran, Thi-Nga; Lim, Kwon Taek Nondestructive chemical functionalization of MWNTs by poly(2-dimethylaminoethyl methacrylate) and their conjugation with CdSe quantum dots: Synthesis, properties, and cytotoxicity studies *Applied Surface Science* (2013), 286, 31-39.
- 764.Book: *Polymer-grafted carbon nanotubes via "grafting from" approach*, C. Gao, Z.Liu, L. Kou, X. Zhao in: *Carbon Nanotube-Polymer Composites*, edited by Dimitrios Tasis; 2013, page 179.
- 765.S Roy, T Das, CY Yue, H Xiao Improved Polymer Encapsulation on Multiwalled Carbon Nanotubes by Selective Plasma Induced Controlled Polymer Grafting, *ACS applied materials & Interfaces*, 2014, 6 (1), pp 664–670

- 766.S Roy, T Das, Y Ming, X Chen, CY YUE Specific Functionalization and Polymer Grafting On Multiwall Carbon Nanotubes To Fabricate Advanced Nylon 12 Composites Journal of Materials Chemistry A 2014,2, 3961-3970
- 767.Li, Xiaoli, Jinle Lan, Miao Ai, Yougang Guo, Qing Cai, and Xiaoping Yang. "Biom mineralization on Polymer-coated Multi-walled Carbon Nanotubes with Different Surface Functional Groups." Colloids and Surfaces B: Biointerfaces 123, 753-761 (2014).
- 768.V Melinte, T Buruiana, A Chibac, N Lupu, M. Grigoras, E. C. Buruiana Preparation and properties of photopolymerized hybrid composites with covalently attached magnetite nanoparticles Chemical Engineering 259, 2015, 542–551
- 769.Cornelsen, Patricia A., Ronaldo C. Quintanilha, Marcio Vidotti, Philip AJ Gorin, Fernanda F. Simas-Tosin, and Isabel C. Riegel-Vidotti. "Native and structurally modified gum arabic: exploring the effect of the gum's microstructure in obtaining electroactive nanoparticles." Carbohydrate Polymers, 119, 35-43 (2015).
- 770.A Kharitonov, J Zha, M Dubois, Tunable hydrophylcity/hydrophobicity of fluorinated carbon nanotubes via graft polymerization of gaseous monomers, Journal of Fluorine Chemistry, 2015, 178, 279 – 285
- 771.T Das, S Roy, S Ting, L Zhang, Y Li, C Yoon Yue, X. Hub, A green technique to prepare uniform amine capped multi-walled carbon nanotubes to fabricate high strength, protein resistant polymer nanocomposites, RSC Advances, 2015, 5, 15524-15533
- 772.J Zha, N Batisse, D Claves, M Dubois, L Frezet, AP Kharitonov, LN Alekseikod, Superhydrophocity via gas-phase monomers grafting onto carbon nanotubes. Progress in Surface Science, 91, (2), 2016, 57–71
- 773.Otitoju, T.A., Ahmad, A.L., Ooi, B.S. Recent advances in hydrophilic modification and performance of polyethersulfone (PES) membrane via additive blending, RSC Advances, 2018, 8(40), pp. 22710-22728
- 774.Fresco-Cala, B., Carrasco-Correa, E.J., Cárdenas, S., Herrero-Martínez, J.M., Carbon nanostructures incorporated on methacrylate monoliths for separation of small molecules by nano-liquid chromatography, Microchemical Journal, 2018, 139, pp. 222-229
- 775.Huth, K., Glaeske, M., Achazi, K., Reich, S., Haag, R., Fluorescent Polymer—Single-Walled Carbon Nanotube Complexes with Charged and Noncharged Dendronized Perylene Bisimides for Bioimaging Studies, Small, 2018, 14(28),1800796
- 776.Kulka, M.W., Smatty, S., Hehnen, F., Affeld, K., Haag, R. The Application of Dual-Layer, Mussel-Inspired, Antifouling Polyglycerol-Based Coatings in Ventricular Assist Devices, Advanced Materials Interfaces, 2020, 7(21),2000272
- 777.Kulka, M.W., Nie, C., Nickl, P., Grunwald, I., Haag, R. Surface-Initiated Grafting of Dendritic Polyglycerol from Mussel-Inspired Adhesion-Layers for the Creation of Cell-Repelling Coatings, Advanced Materials Interfaces 2020, 7(24),2000931
- 778.Freire GA, Miranda KW, da Costa Gonzaga ML, Oliveira MR, Castelo RM, da Silva LC, de Albuquerque Oliveira M, Alves CR, Furtado RF. Electro-synthesized composite of polyaniline and gum Arabic for colorimetric ammonia vapor detection. Research, Society and Development. 2022, 11(9), e15911931469-.

Velickova E, Petrov P, Tsvetanov C, Kuzmanova S, Cvetkovska M, Winkelhausen E Entrapment of *Saccharomyces cerevisiae* cells in uv crosslinked hydroxyethylcellulose/poly (ethylene oxide) double-layered gels Reactive and Functional Polymers 2010, 70 (11), 908-915

- 779.K Suyama, S Ozaki, M Shirai Photo-crosslinking of Polymeric Photobase Generator Bearing O-Acyloxime Moieties with Low Eliminating By-products and High Sensitivity Reactive and Functional Polymers, 2012, 73(3), 518–523
- 780.Suyama, Kanji; Ozaki, Satoko; Shirai, Masamitsu Photo-crosslinking of polymeric photobase generator bearing O-acyloxime moieties with low eliminating by-products and high sensitivity REACTIVE & FUNCTIONAL POLYMERS 2013, 73(3), 518-523
- 781.VI Lozinsky A brief history of polymeric cryogels in Polymeric Cryogels: Macroporous Gels with Remarkable Properties, Advances in Polymer Science 263, 2014, pp 1-48
782. Damania, A., Teotia, A.K., Kumar, A. Synthesis and characterization of cryogels (Book Chapter), Supermacroporous Cryogels: Biomedical and Biotechnological Applications 2016, pp. 35-89

Hu J., Koleva D.A., De Wit J.H.W., Petrov P., Van Breugel K. Corrosion performance of carbon steel in micelle-containing cement extract, ECS Transactions, 2010, 28 (24), pp. 113-121.

- 783.Sosa Gallardo, A.F., Provis, J.L. Electrochemical cell design and impedance spectroscopy of cement hydration, Journal of Materials Science, 2021, 56(2), pp. 1203-1220

Petrov, Petar D.; Georgiev, Georgi L. Ice-mediated coating of macroporous cryogels by carbon nanotubes: a concept towards electrically conducting nanocomposites Chemical Communications (2011), 47(20), 5768-5770.

- 784.Soll, Sebastian; Antonietti, Markus; Yuan, Jiayin Double Stimuli-Responsive Copolymer Stabilizers for Multiwalled Carbon Nanotubes ACS Macro Letters, 2012, 1 (1), pp. 84-87
- 785.Nardecchia, S., Carriazo, D., Ferrer, M.L., Gutiérrez, M.C., Del Monte, F. Three dimensional macroporous architectures and aerogels built of carbon nanotubes and/or graphene: Synthesis and applications Chemical Society Reviews 2013, 42 (2), pp. 794-830



- 786.Josué D. Mota-Morales , María C. Gutiérrez , M. Luisa Ferrer , Ricardo Jiménez , Patricia Santiago , Isaac C. Sanchez , Mauricio Terrones , Francisco Del Monte and Gabriel Luna-Bárcenas Synthesis of macroporous poly(acrylic acid)-carbon nanotube composites by frontal polymerization in deep-eutectic solvents J. Mater. Chem. A, 2013,1, 3970-3976
- 787.A Fonseca-García, JD Mota-Morales, I. A. Quintero-Ortega, Z. Y. García-Carvajal, V. Martínez-López, E. Ruvalcaba, L. Solis, C. Ibarra, M. C. Gutiérrez, M. Terrones, I. C. Sanchez, F. del Monte, M.C. Velasquillo, G. Luna-Bárcenas, Effect of doping in carbon nanotubes on the viability of biomimetic chitosan-carbon nanotubes-hydroxyapatite scaffolds - Journal of Biomedical Materials Research Part A, 2014, 102(10), 3341–3351
- 788.SL Loo, WB Krantz, AG Fane, X Hu, TT Lim, Effect of synthesis routes on the properties and bactericidal activity of cryogels incorporated with silver nanoparticles, RSC Advances, 2015, 5, 44626-44635
- 789.R Du, Q Zhao, N Zhang, J Zhang , Macroscopic Carbon Nanotube-based 3D Monoliths, Small, 2015, 11, (27), 3263–3289.
- 790.Z Li, Z Liu, H Sun, C Gao , Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene, Chemical Reviews, 2015, 115 (15), pp 7046–7117
- 791.R Du, X Gao, Q Feng, Q Zhao, P Li, S Deng, L Shi, J Zhang, Microscopic Dimensions Engineering: Stepwise Manipulation of the Surface Wettability on 3D Substrates for Oil/Water Separation, Advanced Materials, 28, (2016) 936–942
792. S Wan, H Bi, L Sun, Graphene and carbon-based nanomaterials as highly efficient adsorbents for oils and organic solvents. Nanotechnology Reviews, 2016, 5(1) 3–22
- 793.Book: S. Deville, Ice-Templating: Processing Routes, Architectures, and Microstructures In: Freezing Colloids: Observations, Principles, Control, and Use - Part of the series Engineering Materials and Processes 2017, pp 171-252
- 794.Book: S. Deville, Ice-Templated Materials: Polymers, Ceramics, Metals and Their Composites In: Freezing Colloids: Observations, Principles, Control, and Use - Part of the series Engineering Materials and Processes 2017, pp 253-350
- 795.Book: S. Deville, Properties and Applications of Ice-Templated Materials In: Freezing Colloids: Observations, Principles, Control, and Use - Part of the series Engineering Materials and Processes 2017, pp 439-548
- 796.Loo, S. L., Vásquez, L., Athanassiou, A., & Fragouli, D. Polymeric Hydrogels—A Promising Platform in Enhancing Water Security for a Sustainable Future. Advanced Materials Interfaces, 2021, 2100580.

Petrov P, Utrata-Wesołek A, Trzebicka B, Tsvetanov CB, Dworak A., Anioł J., Sieroń A Biocompatible cryogels of thermosensitive polyglycidol derivatives with ultra-rapid swelling properties European Polymer Journal 47 (5), 2011, 981-988

- 797.N Sahiner, S Yildiz Preparation of superporous poly (4-vinyl pyridine) cryogel and their templated metal nanoparticle composites for H<sub>2</sub> production via hydrolysis reactions Fuel Processing Technology, 126, 2014, 324–331
- 798.VI Lozinsky A brief history of polymeric cryogels in Polymeric Cryogels: Macroporous Gels with Remarkable Properties, Advances in Polymer Science 263, 2014, pp 1-48
- 799.F Seven, N Sahiner Superporous P(2-hydroxyethyl methacrylate) cryogel-M (M:Co, Ni, Cu) composites as highly effective catalysts in H<sub>2</sub> generation from hydrolysis of NaBH<sub>4</sub> and NH<sub>3</sub>BH<sub>3</sub> International Journal of Hydrogen Energy, 39(28), 2014, 15455–15463
- 800.F Seven, N Sahiner Modified macroporous P(2-hydroxyethyl methacrylate) P(HEMA) cryogel composites for H<sub>2</sub> production from hydrolysis of NaBH<sub>4</sub> Fuel Processing Technology, 128, 2014, 394–401
- 801.Sahiner, N., Seven, F. Energy and environmental usage of super porous poly(2-acrylamido-2-methyl- 1-propan sulfonic acid) cryogel support RSC Advances, 2014, 4(45),23886-23897
- 802.A. BAL , B.ÖZKAHRAMAN, M K GÖK, I.ACAR, Sodyum akrilat esasli hidrojel ve kriyojellerin şişme, adsorpsiyon ve mekanik özelliklerinin incelenmesi (Investigation of swelling, adsorption and mechanical properties of sodium acrylate based hydrogel and cryogels), Pamukkale Univ Muh Bilim Derg, 2014, 20(7),258-265 (Pamukkale Univ J Eng Sci, 2014, 20(7), 258-265.
- 803.N Sahiner, F Seven, A facile synthesis route to improve the catalytic activity of inherently cationic and magnetic catalyst systems for hydrogen generation from sodium borohydride hydrolysis, Fuel Processing Technology, 2015, 132, Pages 1–8
- 804.N Sahiner, F Seven, H Al-lohedan , Superporous Cryogel-M (Cu, Ni, and Co) Composites in Catalytic Reduction of Toxic Phenolic Compounds and Dyes from Wastewaters, Water, Air, & Soil Pollution, 2015, 226:122.
- 805.İnal, M., Erduran, N., Gökğöz, M. The dye adsorption and antibacterial properties of composite polyacrylamide cryogels modified with ZnO, Journal of Industrial and Engineering Chemistry, 2021,98, pp. 200-210
- 806.Say, Rıdvan, Almıla Şenat, Özlem Biçen Ünlüer, Fahrettin Akyüz, and Arzu Ersöz. "Subcutaneously Delivered Nano-Insulin Drug as Label Free Nanotheranostic." (2021).

P.Petrov, S. Pavlova, C. B. Tsvetanov, Y. Topalova, R. Dimkov In situ entrapment of urease in cryogels of poly(N-isopropylacrylamide): An effective strategy for noncovalent immobilization of enzyme, Journal of Applied Polymer Science 2011, 122, (3), 1742–1748

- 807.Senta Reichelt , Christian Abe , Stefan Hainich , Wolfgang Knolle , Ulrich Decker , Andrea Prager and Robert Konieczny  
Electron-beam derived polymeric cryogels *Advances in Colloid and Interface Science* 187–188 (2013) 1–46
- 808.Y. Chen, X.L. Tang, B.T. Chen, G. Qiu Low temperature plasma vapor treatment of thermo-sensitive poly(N-isopropylacrylamide) and its application *Applied Surface Science*, 2013, 268, 332 – 336
- 809.Z. Olcer, M. M. Ozmen, Z. M. Sahin, F. Yilmaz, A. Tanriseven, Highly Efficient Method Towards In Situ Immobilization of Invertase Using Cryogelation, *Applied Biochemistry and Biotechnology*, 2013 171(8):2142-52
- 810.S. Reichelt, J. Becher, J. Weisser, A. Prager, U. Decker, S. Möller, A. Berg, M. Schnabelrauch, Biocompatible polysaccharide-based cryogels, *Materials Science and Engineering: C*, 2014, 35 (1) , pp. 164-170
- 811.Z Baysal, Y Bulut, M Yavuz, Ç Aytekin Immobilization of  $\alpha$ -amylase via adsorption onto bentonite/chitosan composite: Determination of equilibrium, kinetics, and thermodynamic parameters, *Starch-Stärke*, 2014, 66(5-6) 484–490.
- 812.S Reichelt, A Prager, C Abe, W Knolle Tailoring the structural properties of macroporous electron-beam polymerized cryogels by pore forming agents and the monomer selection *Radiation Physics and Chemistry*, 2014, 94, 40–44
- 813.C Türkcan, DA Uygun, S Akgöl, Adil Denizli Reactive red 120 and NI (II) derived poly (2-hydroxyethyl methacrylate) nanoparticles for urease adsorption *Journal of Applied Polymer Science*, 2014, 131(2) 39757.
- 814.NJ Oliver-Calixte, FI Uba, KN Battle, K.M. Weerakoon-Ratnayake , and S.A. Soper Immobilization of Lambda Exonuclease onto Polymer Micropillar Arrays for the Solid-Phase Digestion of dsDNAs *Anal. Chem.*, 2014, 86 (9), pp 4447–4454
- 815.R Sato, T Kawakami, H Tokuyama Preparation of polymeric macroporous hydrogels for the immobilization of enzymes using an emulsion-gelation method *Reactive and Functional Polymers*, 76, 2014, 8–12
- 816.VI Lozinsky A brief history of polymeric cryogels in *Polymeric Cryogels: Macroporous Gels with Remarkable Properties*, *Advances in Polymer Science* 263, 2014, pp 1-48
- 817.DA Uygun, B Akduman, M Uygun, S Akgöl, A Denizli, Immobilization of alcohol dehydrogenase onto metal-chelated cryogels, *Journal of Biomaterials Science, Polymer Edition*, 2015, 26(7),446.
- 818.TMA Henderson, K Ladewig, D Haylock , K M. McLeanb, A. J. O'Connor, Formation and characterisation of a modifiable soft macro-porous hyaluronic acid cryogel platform, *Journal of Biomaterials Science, Polymer Edition*, 2015, 26 (13), pp. 881-897
- 819.X Hu, W Cheng, Z Shao, L Xin Synthesis and characterization of temperature-sensitive hydrogels, *e-Polymers*, 2015, 15(5), 353
- 820.X Hu, W Cheng, W Nie, Z Shao Synthesis and characterization of a temperature-sensitive hydrogel based on sodium alginate and N-isopropylacrylamide, *Polymers for Advanced Technologies*, 2015, 26 (11), pp. 1340-1345
- 821.R Sato, H Tokuyama, Fabrication of enzyme-entrapped composite and macroporous gel beads by suspension gelation combined with sedimentation polymerization. *Biochemical Engineering Journal*, 2016, 113, 152–157
- 822.Yavuz M., Cakir O., Baysal Z., Adsorption of cellulase on poly(2-hydroxyethyl methacrylate) cryogels containing phenylalanine, *Turkish Journal of Chemistry*, 2016, 40(5)pp.720-728.
- 823.Efremenko, E.N., Lyagin, I.V., Lozinsky, V.I. Enzymatic biocatalysts immobilized on/in the cryogel-type carriers ( Book Chapter), *Supermacroporous Cryogels: Biomedical and Biotechnological Applications*, 2016, pp. 309-332
- 824.Zhai, M., Ma, F., Li, J., Wan, B., Yu, N. Preparation and properties of cryogel based on poly(hydroxypropyl methacrylate), *Journal of Biomaterials Science, Polymer Edition*, 2018, 29(12), pp. 1401-1425
- 825.Vardar, G., Attar, A., Yapaoz, M.A. Development of urea biosensor using non-covalent complexes of urease with aldehyde derivative of PEG and analysis on serum samples, *Preparative Biochemistry and Biotechnology* 2019, 49(9), pp. 868-875
- 826.Ari, B., Sahiner, N. Biodegradable super porous inulin cryogels as potential drug carrier, *Polymers for Advanced Technologies* 2020, 31(11), pp. 2863-2873
- 827.Demirci S, Sahiner N. Urease-Immobilized PEI Cryogels for the Enzymatic Hydrolysis of Urea and Carbon Dioxide Uptake. *Industrial & Engineering Chemistry Research*. 2022, 61(7):2771-82.
- 828.Demirci S, Sahiner N. Thermo-responsive macroporous p (NIPAM) cryogel affords enhanced thermal stability and activity for  $\alpha$ -glucosidase enzyme by entrapping in situ. *The Canadian Journal of Chemical Engineering*. 2022, 100(12), 3575-87.
- 829.Wang S, Xu D, Liu X, Wang Y, Ye H, Ma X. Improving Thermal Stability of Enzymatic Micromotors by a Temperature-Sensitive Smart Polymeric Shell. *ChemNanoMat*. 2022, 8(4), e202100447.
- 830.Salehipour, M., Rezaei, S., Yazdani, M. and Mogharabi-Manzari, M., Recent advances in preparation of polymer hydrogel composites and their applications in enzyme immobilization. *Polymer Bulletin*, 2023, 80(6), pp.5861-5896.

Kostova B, Momekova D, Petrov P, Momekov G, Toncheva-Moncheva N, Tsvetanov CB, Lambov N, Poly(ethoxytriethyleneglycol acrylate) cryogels as novel sustained drug release system for oral application, *Polymer*, (2011), 52(5), 1217-1222.

- 831.Nazar M Ranjha, Jahanzeb Mudassir, and Zuhair Zubair Sheikh Synthesis and Characterization of pH-Sensitive Pectin/Acrylic Acid Hydrogels for Verapamil Release Study Iranian Polymer Journal 2011, 20 (2), 147-159
- 832.Yun, Junxian; Tu, Changming; Lin, Dong-Qiang; Xu, Linhong; Guo, Yantao; Shen, Shaochuan; Zhang, Songhong; Yao, Kejian; Guan, Yi-Xin; Yao, Shan-Jing Microchannel liquid-flow focusing and cryo-polymerization preparation of supermacroporous cryogel beads for bioseparation Journal of Chromatography, A (2012), 1247, 81-88.
- 833.Cursaru, B., Teodorescu, M., Boscornea, C., Stanescu, P.O., Stoleriu, S. Drug absorption and release properties of crosslinked hydrogels based on diepoxy-terminated poly(ethylene glycol)s and aliphatic polyamines - a study on the effect of the gel molecular structure Materials Science and Engineering C, Volume 33, Issue 3, 1 April (2013), Pages 1307-1314
- 834.Senta Reichelt , Christian Abe , Stefan Hainich , Wolfgang Knolle , Ulrich Decker , Andrea Prager and Robert Konieczny Electron-beam derived polymeric cryogels Soft Matter, 2013,9, 2484-2492
- 835.S Zheng, T Wang, D Liu, X Liu, C Wang, Z Tong Fast deswelling and highly extensible poly (N-isopropylacrylamide)-hectorite clay nanocomposite cryogels prepared by freezing polymerization Polymer, 2013, 54(7), 1846-1852
- 836.J Yun, JT Dafoe, E Peterson, L Xu, SJ Yao, A.J. Daugulis Rapid freezing cryo-polymerization and microchannel liquid-flow focusing for cryogel beads: Adsorbent preparation and characterization of supermacroporous bead-packed bed Journal of Chromatography A, 2013, 1284, 148-154
- 837.XY Zhan, DP Lu, DQ Lin, SJ Yao Preparation and characterization of supermacroporous polyacrylamide cryogel beads for biotechnological application Journal of Applied Polymer Science, 2013, 130(5), 3082-3089
- 838.S. Reichelt, J. Becher, J. Weisser, A. Prager, U. Decker, S. Möller, A. Berg, M. Schnabelrauch, Biocompatible polysaccharide-based cryogels, Materials Science and Engineering: C, 2014, 35 (1) , pp. 164-170
- 839.G Vancoillie, D Frank, R Hoogenboom Thermoresponsive poly (oligo ethylene glycol acrylates) Progress in Polymer Science, 2014,39(6), Pages 1074-1095
- 840.S Yildiz, N Aktas, N Sahiner Metal nanoparticle-embedded super porous poly (3-sulfopropyl methacrylate) cryogel for H<sub>2</sub> production from chemical hydride hydrolysis International Journal of Hydrogen Energy, 39(27) 2014, 14690-14700
- 841.N Sahiner, F Seven The use of superporous p(AAc (acrylic acid)) cryogels as support for Co and Ni nanoparticle preparation and as reactor in H<sub>2</sub> production from sodium borohydride hydrolysis Energy, 71, 2014, 170-179
- 842.VI Lozinsky A brief history of polymeric cryogels in Polymeric Cryogels: Macroporous Gels with Remarkable Properties, Advances in Polymer Science 263, 2014, pp 1-48
- 843.F Seven, N Sahiner Modified macroporous P(2-hydroxyethyl methacrylate) P(HEMA) cryogel composites for H<sub>2</sub> production from hydrolysis of NaBH<sub>4</sub> Fuel Processing Technology, 128, 2014, 394-401
- 844.N Sahiner, F Seven Energy and environmental usage of super porous poly (2-acrylamido-2-methyl-1-propan sulfonic acid) cryogel support RSC Advances, 2014, 4, 23886-23897
- 845.S Yildiz, N Sahiner, N Sahiner, Ionic liquid hydrogel templates: bulkgel, cryogel, and microgel to be used for metal nanoparticle preparation and catalysis, European Polymer Journal, 2015, 70, 66-78
- 846.TMA Henderson, K Ladewig, D Haylock , K. M. McLeanbc, A.J. O'Connor, Formation and characterisation of a modifiable soft macro-porous hyaluronic acid cryogel platform, Journal of Biomaterials Science, Polymer Edition, 2015, 26(13), 881-897
- 847.N Sahiner, F Seven, H Al-lohedan, Superporous Cryogel-M (Cu, Ni, and Co) Composites in Catalytic Reduction of Toxic Phenolic Compounds and Dyes from Wastewaters, Water, Air, & Soil Pollution, 2015, 226:122.
- 848.Book: S Reichelt, Introduction to Macroporous Cryogels, In: Affinity Chromatography: Methods and Protocols, Ed. S Reichelt, 2015, 1286, 173-181
- 849.Book: Voorhaar L, Van Hecke K, Vancoillie G, Zhang Q, Hoogenboom R, High-Throughput Synthesis of Thermoresponsive Poly(oligoethylene glycol acrylate) Copolymers by RAFT Polymerization In: Controlled Radical Polymerization: Materials, Editor(s): K Matyjaszewski, B S Sumerlin, NV Tsarevsky, J Chiefari, Chapter 5, pp 63-77, Chapter DOI: 10.1021/bk-2015-1188.ch005, ACS Symposium Series, Vol. 1188, 2015
- 850.A Göçenoğlu Sarıkaya, B Osman, A Kara, Evaluation of the effectiveness of microparticle-embedded cryogel system in removal of 17  $\beta$ -estradiol from aqueous solution, Desalination and Water Treatment, 2016, 57, 15570-15579
- 851.Sengel SB, Sahiner N, Poly (vinyl phosphonic acid) nanogels with tailored properties and their use for biomedical and environmental applications. European Polymer Journal, 75, 264-275, 2016
- 852.Reichelt, S. Electron-beam generated macroporous cryogels, Refrigeration Science and Technology, 2016, pp. 78-82
- 853.Sahn, M., Stafast, L.M., Dirauf, M., Weber, C., Schubert, U.S., LCST behavior of poly(2-ethyl-2-oxazoline) containing diblock and triblock copolymers, European Polymer Journal, 2018, 100, pp. 57-66
- 854.Xiao, Z., Tan, Y., Ma, J., Xu, S., Huang, J., Fast swelling behaviors of thermosensitive poly(N-isopropylacrylamide-co-methacryloxyethyltrimethyl ammonium chloride)/Na<sub>2</sub>WO<sub>4</sub> cationic composite hydrogels, Journal of Applied Polymer Science, 2018, 135(25),46375
- 855.Zhai, M., Ma, F., Li, J., Wan, B., Yu, N. Preparation and properties of cryogel based on poly(hydroxypropyl methacrylate), Journal of Biomaterials Science, Polymer Edition, 2018, 29(12), pp. 1401-1425
- 856.Bakhshpour, M., Idil, N., Perçin, I., Denizli, A. Biomedical applications of polymeric cryogels, Applied Sciences (Switzerland), 2019, 9(3),553

- 857.Vancoillie, G., Van Guyse, J.F.R., Voorhaar, L., Holder, E., Hoogenboom, R. Understanding the effect of monomer structure of oligoethylene glycol acrylate copolymers on their thermoresponsive behavior for the development of polymeric sensors, *Polymer Chemistry*, 2019, 10(42), pp. 5778-5789
- 858.Haleem, A., Li, H.-J., Li, P.-Y., Chen, S.-Q., He, W.-D. Rapid UV-radiation synthesis of polyacrylate cryogel oil-sorbents with adaptable structure and performance, *Environmental Research*, 2020, 187,109488
- 859.He, Yujing, Chunhua Wang, Chenzhi Wang, Yuanhang Xiao, and Wei Lin. "An Overview on Collagen and Gelatin-Based Cryogels: Fabrication, Classification, Properties and Biomedical Applications." *Polymers* 13, no. 14 (2021): 2299.
- 860.Jones, Luke O., Leah Williams, Tasmin Boam, Martin Kalmet, Chidubem Oguike, and Fiona L. Hatton. "Cryogels: recent applications in 3D-bioprinting, injectable cryogels, drug delivery, and wound healing." *Beilstein Journal of Organic Chemistry* 17, no. 1 (2021): 2553-2569.
- 861.Türkmen D, Bakhshpour M, Akgönüllü S, Aşır S, Denizli A. Heavy Metal Ions Removal From Wastewater Using Cryogels: A Review. *Frontiers in Sustainability*. 2022, 3, 765592.
- 862.Ari, B., Sahiner, M., Suner, S.S., Demirci, S. and Sahiner, N., Super-macroporous pullan cryogels as controlled active delivery systems with controlled degradability. *Micromachines*, 2023, 14(7), p.1323.
- 863.Behrendt, F., Cseresnyés, Z., Gerst, R., Gottschaldt, M., Figge, M.T. and Schubert, U.S., 2023. Evaluation of reproducible cryogel preparation based on automated image analysis using deep learning. *J Biomed Mater Res.*2023;111:1734–1749
- 864.Mathew, A.A., Mohapathra, S. and Panonnummal, R., Pectin-based drug delivery systems for biomedical applications. In *Natural Biopolymers in Drug Delivery and Tissue Engineering*, 2023, pp. 301-346. Woodhead Publishing.
- 865.Omidian, H., Dey Chowdhury, S. and Babanejad, N., Cryogels: Advancing Biomaterials for Transformative Biomedical Applications. *Pharmaceutics*, 2023, 15(7), p.1836.

[Donev R., Koseva N., Petrov P., Kowalczyk A., Thome J. Characterisation of different nanoparticles with a potential use for drug delivery in neuropsychiatric disorders \*World Journal of Biological Psychiatry\* 2011,12 \(SUPPL. 1\) , pp. 44-51.](#)

- 866.Luxenhofer, R., Han, Y., Schulz, A., Tong, J., He, Z., Kabanov, A.V., Jordan, R. Poly(2-oxazoline)s as polymer therapeutics *Macromolecular Rapid Communications* 2012, 33 (19), pp. 1613-1631
- 867.J Kronek, E Paulovičová, L Paulovičová, Z Kroneková and J. Lustoň Biocompatibility and Immunocompatibility Assessment of Poly (2-Oxazolines) in Practical Applications in Biomedical Engineering – 2012, Kronek et al., licensee InTech. This is an open access chapter distributed under the terms of the Creative Commons Attribution License
- 868.P Heller, D Huesmann, M Scherer, M Barz From Polymers to Nanomedicines: New Materials for Future Vaccines *Molecular Vaccines*, 2014, 2, 643-671.
- 869.Tauhardt, L., Pretzel, D., Kempe, K., Gottschaldt, M., Pohlers, D., Schubert, U.S. Zwitterionic poly(2-oxazoline)s as promising candidates for blood contacting applications *Polymer Chemistry* 2014,5, 5751-5764
- 870.Corinna Fetsch, PhD Thesis, Polypeptide - Synthese und Charakterisierung, Julius-Maximilians-Universität Würzburg, 2014
- 871.M Gregori, M Masserini, S Mancini, Nanomedicine for the treatment of Alzheimer's disease, *Nanomedicine*, 2015, 10, (7), 1203-1218
- 872.Deodhar, S., Dash, A.K. Long circulating liposomes: Challenges and opportunities, *Therapeutic Delivery*, 2018, 9(12), pp. 857-872
- 873.Oleszko-Torbus, N., Utrata-Wesołek, A., Bochenek, M., Dworak, A., Wałach, W. Thermal and crystalline properties of poly(2-oxazoline)s *Polymer Chemistry*, 2019,11(1), pp. 15-33
- 874.Yang, L., Wang, F., Ren, P., Zhang, T. and Zhang, Q., Poly (2-oxazoline) s: synthesis and biomedical applications. *Macromolecular Research*, 2023, pp.1-14.

[Hu J, Koleva DA, Petrov P, K van Breugel Polymeric vesicles for corrosion control in reinforced mortar: Electrochemical behavior, steel surface analysis and bulk matrix properties \*Corrosion science\* 2012, 65, 414-430](#)

- 875.SM Abd El Haleem, S Abd El Wanees, A Bahgat Environmental factors affecting the corrosion behaviour of reinforcing steel. VI. Benzotriazole and its derivatives as corrosion inhibitors of steel *Corrosion Science*, 87, 2014, 321–333
- 876.C Zou, X Yan, Y Qin, M Wang, Y Liu Inhibiting evaluation of  $\beta$ -Cyclodextrin-modified acrylamide polymer on alloy steel in sulfuric solution *Corrosion Science*, 85, 2014, 445–454
- 877.Zou, C., Liu, Y., Yan, X., Y. Qin, Wang, M., Zhou, L. Synthesis of bridged  $\beta$ -cyclodextrin-polyethylene glycol and evaluation of its inhibition performance in oilfield wastewater *Materials Chemistry and Physics* 2014, 147(3), 521–527
- 878.Du, J., Polymer Vesicles (Book Chapter) *Advanced Hierarchical Nanostructured Materials*, 2014, pp. 177-192
- 879.MV Diamanti, EAP Rosales, G Raffaini, F Ganazzoli, A. Brenna, M. Pedferri, M. Ormellese, Molecular modelling and electrochemical evaluation of organic inhibitors in concrete, *Corrosion Science* 100, 231–241, 2015

- 880.JZ Liu, D Zhao, JS Cai, L Shi, JP Liu, Aryl Aminoalcohols as Corrosion Inhibitors for Carbon Steel in Chloride-Contaminated Simulated Concrete Pore Solution, *Int. J. Electrochem. Sci.*, 11(2016) 1135-1151
- 881.Andrija Blagojević, PhD thesis, The Influence off Cracks on the Durability and Service Life of Reinforced Concrete Structures in relation to Chloride-Induced Corrosion, Faculty of Civil Engineering & Geosciences, Department of Structural Engineering, Delft, the Netherlands, 2016
- 882.Y Zhu, B Yang, S Chen, J Du Polymer vesicles: mechanism, preparation, application, and responsive behavior. *Progress in Polymer Science*, 64, 2017, 1–22
- 883.Puig, J., Ceolín, M., Williams, R.J.J., Schroeder, W.F., Zucchi, I.A. Controlling the generation of bilayer and multilayer vesicles in block copolymer/epoxy blends by a slow photopolymerization process, *Soft Matter*, 2017, 13(40), pp. 7341-7351
- 884.Sayed, A.R., Abd El-lateef, H.M., Mohamad, A.D.M. Polyhydrazide Incorporated with Thiadiazole Moiety as Novel and Effective Corrosion Inhibitor for C-Steel in Pickling Solutions of HCl and H<sub>2</sub>SO<sub>4</sub>, *Macromolecular Research*, 2018, 26(10), pp. 882-891
- 885.Mahmoud, H. Corrosion performance of carbon steel in N-doped mesoporous carbon spheres (NMCS)-containing alkaline medium in presence of chloride, *Materials Today Communications*, 2019,21,100677
- 886.Hu, J., Wang, Y., Zhang, Z., Wei, J., Yu, Q. Evaluation on the acidification damage of the external anode mortar induced by impressed current cathodic protection, *Construction and Building Materials*, 2019, 229,116869
- 887.Chi, J., Zhang, G., Xie, Q., Ma, C., Zhang, G. High performance epoxy coating with cross-linkable solvent via Diels-Alder reaction for anti-corrosion of concrete, *Progress in Organic Coatings*, 2020, 139,105473
- 888.Liu, H., Huang, H., Wu, X., Wei, J., Yu, Q. Promotion on self-healing of cracked cement paste by triethanolamine in a marine environment, *Construction and Building Materials*, 2020, 242,118148
- 889.Chen, Mengzhu, Yuxin Cai, Mingtao Zhang, Linwen Yu, Fang Wu, Jinyu Jiang, Huan Yang, Renke Bi, and Yang Yu. "Novel Ca-SLS-LDH nanocomposites obtained via lignosulfonate modification for corrosion protection of steel bars in simulated concrete pore solution." *Applied Clay Science* 211 (2021): 106195.
- 890.Huang, J., Zhu, Y., Ma, Y., Hu, J., Huang, H., Wei, J., Yu, Q. „Ph-triggered release performance of microcapsule-based inhibitor and its inhibition effect on the reinforcement embedded in mortar“ *Materials*, 2021, 14 (19), art. no. 5517
- 891.Ma, Q., Cai, J., Mu, S., Zhou, X., Liu, J., Hong, J., Liu, J. Corrosion Inhibition Effect of Perimidine Derivatives Corrosion Inhibitor on Rebar in Simulated Concrete Pore Solutions Kuei Suan Jen Hsueh Pao/*Journal of the Chinese Ceramic Society*, 2021, 49 (5), pp. 939-947.
- 892.Wu Y, Xu J, Gong W, Wang F. Application of magnesium alloy sacrificial anode for restraining chloride ingress into mortar. *Construction and Building Materials*. 2022, 344:128212.
- 893.Bonilla A, Argiz C, Moragues A, Gálvez JC. Effect of Sulfate Ions on Galvanized Post-Tensioned Steel Corrosion in Alkaline Solutions and the Interaction with Other Ions. *Materials*. 2022, 15(11):3950.
- 894.Chen, M., Yuan, H., Qin, X., Wang, Y., Zheng, H., Yu, L., Cai, Y., Liu, Q.F., Liu, G. and Li, W., Improve corrosion resistance of steel bars in simulated concrete pore solution by the addition of EDTA intercalated CaAl-LDH. *Corrosion Science*, 2023, p.111636.
- 895.Saha, S.K., Takano, T., Fushimi, K., Sakairi, M. and Saito, R., Passivity of iron surface in curing cement paste environment investigated by electrochemical impedance spectroscopy and surface characterization techniques. *Surfaces and Interfaces*, 2023, 36, p.102549.
- 896.Liu, Y. and Shi, J., 2024. Recent progress and challenges of using smart corrosion inhibitors in reinforced concrete structures. *Construction and Building Materials*, 411, p.134595.
- 897.Chen, M., Zheng, H., Yu, L., Cai, Y., Liu, Q.F., Wang, Z., Xie, H. and Li, W., 2024. Development of targeted chloride-responsive Ag/Ca-MoO<sub>4</sub>-LDH for synergistic corrosion resistance. *Chemical Engineering Journal*, 485, p.150164.
- 898.Liu, T., Chen, T., Zhou, X., Sun, L., Yang, W., Liu, C., Cheng, X. and Li, X., 2024. Investigation of Cr and rare earth (RE) on the corrosion resistance of HRB400 rebar in simulated concrete pore solutions containing chloride and sulfate ions. *Construction and Building Materials*, 423, p.135935.
- 899.Chen, M., Yuan, H., Qin, X., Wang, Y., Zheng, H., Yu, L., Cai, Y., Liu, Q.F., Liu, G. and Li, W., 2024. Improve corrosion resistance of steel bars in simulated concrete pore solution by the addition of EDTA intercalated CaAl-LDH. *Corrosion Science*, 226, p.111636.



- 900.Solmaz Hajizadeh PhD Thesis "Composite Cryogels: Stationary Phase for Separation of Complex Media" Lund University, Sweden, Lund, December 2012
- 901.S Nardecchia, D Carriazo, ML Ferrer, M C Gutiérrez and Francisco del Monte Three dimensional macroporous architectures and aerogels built of carbon nanotubes and/or graphene: synthesis and applications Chemical Society Reviews, 2013,42, 794-830
- 902.AA Keller, S McFerran, A Lazareva, S Suh Global life cycle releases of engineered nanomaterials, Journal of Nanoparticle Research, 2013, 15:1692
- 903.PS Kumar, L Önnby, H Kirsebom Reversible in situ precipitation: a flow-through approach for coating macroporous supports with metal hydroxides Journal of Materials Chemistry A, 2014, 2 (4), 1076-1084
- 904.S Hajizadeh, B Mattiasson, H Kirsebom Flow-Through-Mediated Surface Immobilization of Sub-Micrometre Particles in Monolithic Cryogels, Macromolecular Materials and Engineering, 299(5), p 631-638, 2014
- 905.VI Lozinsky A brief history of polymeric cryogels in Polymeric Cryogels: Macroporous Gels with Remarkable Properties, Advances in Polymer Science 263, 2014, pp 1-48
- 906.SL Loo, WB Krantz, AG Fane, X Hu, TT Lim, Effect of synthesis routes on the properties and bactericidal activity of cryogels incorporated with silver nanoparticles, RSC Advances, 2015, 5, 44626-44635
- 907.Mallakpour, S., Dinari, M., Talebi, M. Exfoliation and dispersion of LDH modified with N-tetrabromophthaloyl-glutamic in poly(vinyl alcohol): Morphological and thermal studies, Journal of Chemical Sciences, 2015, 127 (3), pp. 519-525
- 908.Z Li, Z Liu, H Sun, C Gao , Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene, Chemical Reviews, 2015, 115(15), 7046-7117.
- 909.Yuan, Y., Yan, Z., Mu, R.-J., Haruna, M.H., Pang, J. The effects of graphene oxide on the properties and drug delivery of konjac glucomannan hydrogel, Journal of Applied Polymer Science, 2017, 134(38),45327
- 910.Al-Gharabli, S., Kujawa, J., Mavukkandy, M.O., Hamad, E.M., Arafat, H.A. Covalent surface entanglement of polyvinylidene fluoride membranes with carbon nanotubes, European Polymer Journal, 2018, 100, pp. 153-164
- 911.Atif, M., Afzaal, I., Naseer, H., Abrar, M., Bongiovanni, R. Review - Surface Modification of Carbon Nanotubes: A Tool to Control Electrochemical Performance, ECS Journal of Solid State Science and Technology, 2020, 9(4),041009
- 912.Hajizadeh, S., Application of composite cryogels in downstream processing-A review. Reactive and Functional Polymers, 2023, 191, p.105693.

Yoncheva, K; Calleja, P; Agüeros, M; Petrov, P; Miladinova, I; Tsvetanov, Ch; Irache, JM. Stabilized micelles as delivery vehicles for paclitaxel International Journal of Pharmaceutics 2012, 436(1-2), 258-264

- 913.Yimu Li, Yiling Bi, Yanwei Xi, Lingbing Li Enhancement on oral absorption of paclitaxel by multifunctional pluronic micelles Journal of Drug Targeting, 2013, 21,(2) 188-199
- 914.DeXia Li, Gang Guo, Xin Deng, RangRang Fan, QingFa Guo, Min Fan, Jian Liang, Feng Luo, and ZhiYong Qian PLA/PEG-PPG-PEG/Dexamethasone implant prepared by hot-melt extrusion for controlled release of immunosuppressive drug to implantable medical devices, part 2: in vivo evaluation Drug Delivery, 2013, 20, (3-4), 134-142
- 915.Z Zhou, A D'Emanuele, D Attwood Solubility enhancement of paclitaxel using a linear-dendritic block copolymer International journal of pharmaceutics, 2013, 452(1-2), 173-179
- 916.Y Li, X Xu, Y Shen, C Qian, F Lu, S Guo Preparation and evaluation of copolymeric micelles with high paclitaxel contents and sustained drug release, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 429, 12-18
- 917.I Pepić, J Lovrić, J Filipović-Grčić How do polymeric micelles cross epithelial barriers? European Journal of Pharmaceutical Sciences, 2013, 50(1), 42-55
- 918.Liu Jian-feng, Chu Li-ping, Wang De-zhi, He Xin, Xu Hong-yan, Liu Jin-jian Acetylation attenuates polyamidoamine cytotoxicity, Chinese Journal of Tissue Engineering Research, 2013, 17(12):2191-2196.
- 919.F Wang, Y Shen, X Xu, L Lv, Y Li, J Liu, M Li, J. Liu, M. Li, A. Guo, S. Guo, Fang Jin Selective tissue distribution and long circulation endowed by paclitaxel loaded PEGylated poly( $\epsilon$ -caprolactone-co-l-lactide) micelles leading to improved anti-tumor effects and low systematic toxicity International Journal of Pharmaceutics, 2013, 456(1), 101-112
- 920.M. Chipier, K. Hervé Aubert, A. Augé, J.-F. Fouquenot, M. Soucé and I. Chourpa, Colloidal stability and thermo-responsive properties of iron oxide nanoparticles coated with polymers: advantages of Pluronic® F68-PEG mixture, Nanotechnology 2013, 24, 395605

- 921.C. Bothiraja, H.S Kapare, A P Pawar & K. S Shaikh, Development of plumbagin-loaded phospholipid–Tween® 80 mixed micelles: formulation, optimization, effect on breast cancer cells and human blood/serum compatibility testing, *Therapeutic Delivery* 2013, 4(10), 1247-1259
- 922.C Wang, J Mallela, S Mohapatra Pharmacokinetics of Polymeric Micelles for Cancer Treatment *Current Drug Metabolism*, 2013, 14,(8), 900-909
- 923.Xu, Wei; Ling, Peixue; Zhang, Tianmin Polymeric micelles, a promising drug delivery system to enhance bioavailability of poorly water-soluble drugs *Journal of Drug Delivery* (2013), 340315, 16 pp..
- 924.Misra, Rahul; Upadhyay, Mohita; Mohanty, Sanat Nanoparticles as Carriers for Chemotherapeutic Drugs: A Review *Journal of Nanopharmaceutics and Drug Delivery*, 2013, 1(2), pp. 103-137(35)
- 925.L Chen PhD Thesis Hydrogel/polymer micelles composites derived from polymerization of microemulsions for oral drug delivery, August 2013, University of Akron.
- 926.Silva, Vera Lúcia Domingues Master Thesis Micelas Poliméricas e Nanopartículas de Lípidos Sólidos, Contendo Paclitaxel, para Terapêutica de Cancro da Mama, 2013, University of Coimbra
- 927.Y Zhao, Y Li, J Ge, N Li, LB Li Pluronic-poly (acrylic acid)-cysteine/Pluronic L121 mixed micelles improve the oral bioavailability of paclitaxel *Drug development and Industrial Pharmacy*, 2014, 40 (11), pp. 1483-1493
- 928.OV Bondar, YV Badeev, YG Shtyrlin, T. I. Abdullin Lipid-like trifunctional block copolymers of ethylene oxide and propylene oxide: Effective and cytocompatible modulators of intracellular drug delivery *International Journal of Pharmaceutics*, 461, (1–2), 2014, 97–104E
- 929.Bernabeu, G Helguera, MJ Legaspi, L. Gonzalez, C. Hocht, C. Taira, D. A. Chiappetta Paclitaxel-loaded PCL–TPGS nanoparticles: In vitro and in vivo performance compared with Abraxane®, *Colloids and Surfaces B: Biointerfaces*, 2014, 113(1) 43–50
- 930.Y Lu, Z Wang, T Li, H McNally, K Park, M. Sturek Development and Evaluation of Transferrin-Stabilized Paclitaxel Nanocrystal Formulation *Journal of Controlled Release* 176, 2014, 76–85
- 931.JJMA Hendriks, H Rosing, AH Schinkel, JHM Schellens, JH Beijnen Bioanalysis, Quantification of taxanes in biological matrices: a review of bioanalytical assays and recommendations for development of new assays, *Bioanalysis* 2014, 6(7), 993-1010
- 932.J Movellan, P Urbán, E Moles, JM de la Fuente, T. Sierra, J. L.Serrano, X. Fernández-Busquets Amphiphilic dendritic derivatives as nanocarriers for the targeted delivery of antimalarial drugs *Biomaterials* 35(27) 2014, 7940–7950
- 933.S. MN Simões, A R Figueiras, FVeiga, A Concheiro, and C Alvarez-Lorenzo Polymeric micelles for oral drug administration enabling locoregional and systemic treatments *Expert Opinion on Drug Delivery*, Posted online on September 17, 2014
- 934.U. Agrawal, R. Sharma, M. Gupta, S. P. Vyas Is nanotechnology a boon for oral drug delivery? *Drug Discovery Today* 2014, 19 (10), pp. 1530-1546
- 935.Y Zhao, Y Cui, Y Li, L Li Stable phosphatidylcholine-bile salt mixed micelles enhance oral absorption of paclitaxel: preparation and mechanism in rats *Journal of drug targeting*, 2014 22 (10), pp. 901-912
- 936.Bernabeu, E., Flor, S., Hocht, C., Taira, C., Chiappetta, D., Tripodi, V., Lucangioli, S. Development and validation of a highly sensitive HPLC method for determination of paclitaxel in pharmaceutical dosage forms and biological samples *Current Pharmaceutical Analysis* 10 (3) 2014, 185-192
- 937.B Shao, C Cui, H Ji, J Tang, Z Wang, H Liu M. Qin, X. Li, L. Wu Enhanced oral bioavailability of piperine by self-emulsifying drug delivery systems: in vitro, in vivo and in situ intestinal permeability studies *Drug Delivery*, 22, 2015, 740-747
- 938.P Dehghan Kelishady, E Saadat, F. Ravar, H. Akbari, F. Dorkoosh Pluronic F127 polymeric micelles for co-delivery of paclitaxel and lapatinib against metastatic breast cancer: preparation, optimization and in vitro evaluation *Pharmaceutical Development and Technology*, 20, 2015, 1009-1017
- 939.Arranja, A., Schroder, A.P., Schmutz, M., Schosseler, F., Mendes, E. Cytotoxicity and internalization of Pluronic micelles stabilized by core cross-linking *Journal of Controlled Release* 2014, 196, pp. 87-95
- 940.S MN Simões, A R Figueiras, F Veiga, A Concheiro, and C Alvarez-Lorenzo, Polymeric micelles for oral drug administration enabling locoregional and systemic treatments, *Expert Opinion on Drug Delivery*, 2015, 12,(2) , 297-318
- 941.MSH Akash, K Rehman, Recent progress in biomedical applications of Pluronic (PF127): Pharmaceutical perspectives, *Journal of Controlled Release*, 2015, 209, 120–138
- 942.R Klein, FR Wurm, Aliphatic Polyethers: Classical Polymers for the 21st Century, *Macromolecular rapid communications*, 2015, 36(12), 1147–1165
- 943.W Xu, X Fan, Y Zhao, L Li, Cysteine modified and bile salt based micelles: Preparation and application as an oral delivery system for paclitaxel, *Colloids and Surfaces B: Biointerfaces*, 2015, 128, 165–171

944. I Jiménez-Pardo, R González-Pastor, A Lancelot, R Claveria-Gimeno, A Velázquez-Campoy, O Abian, M. Blanca Ros, T Sierra, Shell Cross-Linked Polymeric Micelles as Camptothecin Nanocarriers for Anti-HCV Therapy, *Macromolecular Bioscience*, 2015, 15(10), 1381–1391
- 945.FH Yang, Q Zhang, QY Liang, SQ Wang, BX Zhao, Y-T Wang, Y Cai and G-F Li, Bioavailability Enhancement of Paclitaxel via a Novel Oral Drug Delivery System: Paclitaxel-Loaded Glycyrrhizic Acid Micelles, *Molecules*, 2015, 20(3), 4337–4356;
- 946.M Müller, J Becher, M Schnabelrauch, M Zenobi-Wong Nanostructured Pluronic hydrogels as bioinks for 3D bioprinting, *Biofabrication*, 2015, 7 (3) 035006
- 947.L Chen, L Tan, X Zhang, J Li, Z Qian, M Xiang, Y. Wei, Which polymer is more suitable for etoposide: A comparison between two kinds of drug loaded polymeric micelles in vitro and in vivo? *International Journal of Pharmaceutics*, 2015, 495(1), 265–275
- 948.JS Baek, JH Kim, JS Park, CW Cho Modification of paclitaxel-loaded solid lipid nanoparticles with 2-hydroxypropyl- $\beta$ -cyclodextrin enhances absorption and reduces nephrotoxicity associated with intravenous injection *International journal of Nanomedicine*. 2015; 10: 5397–5405.
- 949.P Dehghan Kelishady, E Saadat, F Ravar, H. Akbaria, F. Dorkoosh, Pluronic F127 polymeric micelles for co-delivery of paclitaxel and lapatinib against metastatic breast cancer: preparation, optimization and in vitro evaluation. *Pharmaceutical Development and Technology*. 20 (2015) 1009-1017
- 950.B Shao, C Cuia, H Ji, J Tang, Z Wang, H Liu, M Qin, X Li, L Wu, Enhanced oral bioavailability of piperine by self-emulsifying drug delivery systems: in vitro, in vivo and in situ intestinal permeability studies. *Drug Delivery*, 2015, 22:6, 740-747
- 951.A Gothwal, I Khan, U Gupta Polymeric Micelles: Recent Advancements in the Delivery of Anticancer Drugs, *Pharmaceutical Research*, 2016, 33(1), 18-39
- 952.Herzberger J, Niederer K, Pohlit H, Seiwert J, Worm M, Wurm F, Frey H, Polymerization of Ethylene Oxide, Propylene Oxide, and Other Alkylene Oxides: Synthesis, Novel Polymer Architectures, and Bioconjugation, *Chem. Rev.*, DOI: 10.1021/acs.chemrev.5b00441, 2016
- 953.Bernabeu E, Gonzalez L, Cagel M, Gergic E, Moretton M, Chiappetta D, Novel Soluplus®—TPGS mixed micelles for encapsulation of paclitaxel with enhanced in vitro cytotoxicity on breast and ovarian cancer cell lines. *Colloids and Surfaces B: Biointerfaces*, 2016, 140, 403-411
- 954.MH Han, H Zheng, YF Guo, YH Wang, XY Qi, X. T. Wang, Novel folate-targeted paclitaxel nanoparticles for tumor targeting: preparation, characterization, and efficacy. *RSC Advances*, 2016, 6, 45664-45672.
- 955.DG Lim, JH Jeong, HW Ko, E Kang, SH Jeong, Paclitaxel-nanodiamond nanocomplexes enhance aqueous dispersibility and drug retention in cells, *ACS Appl. Mater. Interfaces*, 2016, 8 (36), 23558–23567
- 956.P Dehghankelishadi, E Saadat, F Ravar, M Safavi, M Pordeli, M Gholami & F A. Dorkoosh, In vitro and in vivo evaluation of Paclitaxel-Lapatinib loaded F127 Pluronic micelles, *Drug Development and Industrial Pharmacy*, 43, 2017, 390-398
- 957.HB Ruttala, T Ramasamy, BS Shin, HG Choi, C S Yong, J O Kim, Layer-by-Layer Assembly of Hierarchical Nanoarchitectures to Enhance the Systemic Performance of Nanoparticle Albumin-bound Paclitaxel, *International Journal of Pharmaceutics*, 519(1–2), 2017, 11–21
- 958.Alami-Milani, M., Zakeri-Milani, P., Valizadeh, H., Salehi, R., Salatin, S., Naderinia, A., Jelvehgari, M. Novel pentablock copolymers as thermosensitive self-assembling micelles for ocular drug delivery, *Advanced Pharmaceutical Bulletin*, 2017, 7 (1), pp. 11-20
- 959.Gupta, M., Sharma, V., Chauhan, N.S., Nanotechnology for oral delivery of anticancer drugs: An insight potential, *Nanostructures for Oral Medicine*, 2017, pp. 467-510
- 960.Furman, C., Carpentier, R., Barczyk, A., Chavatte, P., Betbeder, D., Lipka, E., Development and validation of a reversed-phase HPLC method for the quantification of paclitaxel in different PLGA nanocarriers, *Electrophoresis*, 2017, 38 (19), pp. 2536-2541
- 961.Derakhshanfar, S., Mbeleck, R., Xu, K., Zhang, X., Zhong, W., Xing, M., 3D bioprinting for biomedical devices and tissue engineering: A review of recent trends and advances, *Bioactive Materials*, 2018, 3 (2), pp. 144-156
- 962.Chiari-Andréo, B.G., De Almeida-Cincotto, M.G.J., Oshiro, J.A., Taniguchi, C.Y.Y., Chiavacci, L.A., Isaac, V.L.B., Nanoparticles for cosmetic use and its application, *Nanoparticles in Pharmacotherapy*, 2019, pp. 113-146
- 963.Oktavia, L., Jeong, S.M., Kang, M., Kim, H., Lee, T.H., Zhang, J., Seo, H., Lee, J., Han, D., An, Y., Yang, C., Kim, J.H., Je, J.T., Son, S.M., Cho, E.A., Kim, S.-Y., Jin, J.-O., Lee, P.C.W., Kwak, M. Dye encapsulated polymeric nanoprobe for in vitro and in vivo fluorescence imaging in panchromatic range, *Journal of Industrial and Engineering Chemistry*, 2019, 73, pp. 87-94
- 964.Saraei, M., Sarvari, R., Massoumi, B., Agbolaghi, S. Co-delivery of methotrexate and doxorubicin via nanocarriers of star-like poly(DMAEMA-block-HEMA-block-AAc) terpolymers, *Polymer International*, 2019, 68 (10), pp. 1795-1803

- 965.Wang, D., Wang, Y., Zhao, G., Zhuang, J., Wu, W. Improving systemic circulation of paclitaxel nanocrystals by surface hybridization of DSPE-PEG2000, *Colloids and Surfaces B: Biointerfaces*, 2019, 182, art. no. 110337
- 966.Bonde, G.V., Ajmal, G., Yadav, S.K., Mittal, P., Singh, J., Bakde, B.V., Mishra, B. Assessing the viability of Soluplus® self-assembled nanocolloids for sustained delivery of highly hydrophobic lapatinib (anticancer agent): Optimisation and in-vitro characterization, *Colloids and Surfaces B: Biointerfaces*, 2020, 185, art. no. 110611
- 967.Zou, J., Zhu, B., Li, Y., Functionalization silver nanoparticles loaded with paclitaxel-induced A549 cells apoptosis through ROS-mediated signaling pathways, *Current Topics in Medicinal Chemistry*, 2020, 20 (2), pp. 89-98.
- 968.Shen, Q., Shen, Y., Jin, F., Du, Y.-Z., Ying, X.-Y. Paclitaxel/hydroxypropyl- $\beta$ -cyclodextrin complex-loaded liposomes for overcoming multidrug resistance in cancer chemotherapy, *Journal of Liposome Research*, 2020, 30 (1), pp. 12-20
- 969.El-Sayed, A.S.A., El Sayed, M.T., Rady, A., Zein, N., Enan, G., Shindia, A., El-Hefnawy, S., Sitohy, M., Sitohy, B., Exploiting the biosynthetic potency of taxol from fungal endophytes of conifers plants; genome mining and metabolic manipulation, *Molecules*, 2020, 25 (13), art. no. 3000
- 970.Majumder, N., Das, N.G., Das, S.K., Polymeric micelles for anticancer drug delivery, *Therapeutic Delivery*, 2020, 11 (10), pp. 613-635.
- 971.Bose, A., Burman, D.R., Sikdar, B., Patra, P., Nanomicelles: Types, properties and applications in drug delivery, *IET Nanobiotechnology*, 2021, 15 (1), pp. 19-27.
- 972.Alqahtani, M.S., Kazi, M., Alsenaidy, M.A., Ahmad, M.Z., *Advances in Oral Drug Delivery*, *Frontiers in Pharmacology*, 2021, 12, art. no. 618411
- 973.Mallik, Tapati. "Nanomicelles: An Overview." *International Journal of Recent Advances in Multidisciplinary Topics* 2, no. 11 (2021): 47-51.
- 974.Li, Diedie, Chengzhi Gao, Meiyan Kuang, Minhao Xu, Ben Wang, Yi Luo, Lesheng Teng, and Jing Xie. "Nanoparticles as Drug Delivery Systems of RNAi in Cancer Therapy." *Molecules* 26, no. 8 (2021): 2380.
- 975.Tang, Wenjing, Zui Zhang, Cheng Li, Yuxiu Chu, Jun Qian, Tianlei Ying, Weiyue Lu, and Changyou Zhan. "Facile Separation of PEGylated Liposomes Enabled by Anti-PEG scFv." *Nano Letters* 2021, 21, 23, 10107–10113
- 976.Grousson, E., 2021. Molécules amphiphiles hybrides à chaînes hydrogénées et fluorées: synthèse, étude de la dynamique d'auto-association et application au transport de principes actifs hydrophobes (Doctoral dissertation, Université d'Avignon).
- 977.Bhalani DV, Nutan B, Kumar A, Singh Chandel AK. Bioavailability Enhancement Techniques for Poorly Aqueous Soluble Drugs and Therapeutics. *Biomedicines*. 2022, 10(9):2055.
- 978.Shamma RN, Sayed RH, Madry H, El Sayed NS, Cucchiari M. Triblock Copolymer Bioinks in Hydrogel Three-Dimensional Printing for Regenerative Medicine: A Focus on Pluronic F127. *Tissue Engineering Part B: Reviews*. 2022, 28(2):451-63.
- 979.Hung KS, Chen MS, Lan WC, Cho YC, Saito T, Huang BH, Tsai HY, Hsieh CC, Ou KL, Lin HY. Three-Dimensional Printing of a Hybrid Bioceramic and Biopolymer Porous Scaffold for Promoting Bone Regeneration Potential. *Materials*. 2022, 15(5):1971.
- 980.Haddad R, Alrabadi N, Altaani B, Li T. Paclitaxel Drug Delivery Systems: Focus on Nanocrystals' Surface Modifications. *Polymers*. 2022,14(4):658.
- 981.Li L, Zeng Y, Chen M, Liu G. Application of Nanomicelles in Enhancing Bioavailability and Biological Efficacy of Bioactive Nutrients. *Polymers*. 2022, 14(16):3278.
- 982.Haddad R, Alrabadi N, Altaani B, Masadeh M, Li T. Hydroxypropyl Beta Cyclodextrin as a Potential Surface Modifier for Paclitaxel Nanocrystals. *AAPS PharmSciTech*. 2022, 23(6):1-11.
- 983.Qi X, Gao C, Yin C, Fan J, Wu X, Di G, Wang J, Guo C. Development of quercetin-loaded PVCL–PVA–PEG micelles and application in inhibiting tumor angiogenesis through the PI3K/Akt/VEGF pathway. *Toxicology and Applied Pharmacology*. 2022, 437:115889.
- 984.Rocha, B., de Moraes, L.A., Viana, M.C. and Carneiro, G., Promising strategies for improving oral bioavailability of poor water-soluble drugs. *Expert Opinion on Drug Discovery*, 2023, 18(6), pp.615-627.
- 985.Feng, M., Dai, X., Yang, C., Zhang, Y., Tian, Y., Qu, Q., Sheng, M., Li, Z., Peng, X., Cen, S. and Shi, X., Unification of medicines and excipients: The roles of natural excipients for promoting drug delivery. *Expert Opinion on Drug Delivery*, 2023,20(5), pp.597-620.
- 986.Zhu, C., Zhang, Z., Wen, Y., Song, X., Zhu, J., Yao, Y. and Li, J., Cationic micelles as nanocarriers for enhancing intra-cartilage drug penetration and retention. *Journal of Materials Chemistry B*, 2023, 11(8), pp.1670-1683.
- 987.Romero, J.F., Herziger, S., Cherri, M., Dimde, M., Achazi, K., Mohammadifar, E. and Haag, R., Dendritic Glycerol-Cholesterol Amphiphiles as Drug Delivery Systems: A Comparison between Monomeric and Polymeric Structures. *Pharmaceutics*, 2023, 15(10), p.2452.

- 988.Arora, V., Bhandari, D.D., Puri, R., Khatri, N. and Dureja, H., Synthesis, Self-Assembly, and Functional Chemistry of Amphiphilic Block Copolymers. In Polymeric Micelles: Principles, Perspectives and Practices 2023, pp. 1-25. Singapore: Springer Nature Singapore.
- 989.Wei, Q., Peng, Y., Chen, W., Duan, Y., Chua, G., Hu, J., Lyu, S., Chen, Z., Han, F. and Li, B., 2024. Three-dimensional bioprinting for musculoskeletal regeneration and disease modeling. International Journal of Bioprinting, 10(1), p.1037.
- 990.Udmale, M.A. and Patel, V., 2024. Progress In Nano Micelles Drug Delivery Recently. Latin American Journal of Pharmacy: A Life Science Journal, 43(1), pp.132-138.

Petrov P D, Georgiev G L, Müller AHE Dispersion of multi-walled carbon nanotubes with pyrene-functionalized polymeric micelles in aqueous media Polymer 2012, 53, 24(9) 5502–5506

- 991.OV Kharissova, BI Kharisov, EG de Casas Ortiz Dispersion of carbon nanotubes in water and non-aqueous solvents RSC Advances, 2013, 3, 24812-24852
- 992.Li, Yifan; He, Guangwei; Wang, Shaofei; Yu, Shengnan; Pan, Fusheng; Wu, Hong; Jiang, Zhongyi Recent advances in the fabrication of advanced composite membranes Journal of Materials Chemistry A: Materials for Energy and Sustainability (2013), 1(35), 10058-10077
- 993.G Sakellariou, A Avgeropoulos Non-covalent functionalization of carbon nanotubes with polymers RSC Advances, 2014,4, 2911-2934
- 994.C.Yang, Y. Lin, P. Wang, D. Liaw, S. Kuo Polybenzoxazine/single-walled carbon nanotube nanocomposites stabilized through noncovalent bonding interactions Polymer 55(8), 2044–2050, 2014
- 995.H Kalita, N Karak Hyperbranched polyurethane/triethanolamine functionalized multi-walled carbon nanotube nanocomposites as remote induced smart materials Polymer International, 2014, 63(7), 1295–1302
- 996.R Liu, X Zeng, J Liu, Y Zheng, J Luo... Dispersion of carbon nanotubes in water by self-assembled micelles of branched amphiphilic multifunctional copolymers with photosensitivity and electroactivity Journal of Materials Chemistry A, 2014, 2, 14481-14492
- 997.MG Mohamed, KC Hsu, SW Kuo, Bifunctional polybenzoxazine nanocomposites containing photo-crosslinkable coumarin units and pyrene units capable of dispersing single-walled carbon nanotubes, Polymer Chemistry, 2015, 6, 2423-2433.
- 998.Z Yu, K Xu, Z Fu, X Liu, Y Zhang, J Peng, M Chen, RAFT synthesis of polyethylene glycol (PEG) and amino-functionalized amphiphilic copolymers for dispersing carbon nanofibers, RSC Advances, 2015, 5, 23683-23690
- 999.Örücü, H., Acar, N. Effects of substituent groups and solvent media on Pyrene in ground and excited states: A DFT and TDDFT study, Computational and Theoretical Chemistry, 2015, 1056, pp. 11-18
1000. H Zhang, Y Wang, D Zhao, D Zeng, J Xia, A Aldalbahi, C Wang, L San, C Fan, X Zuo, X Mi, A Universal Fluorescence Biosensor Platform Based on Graphene Quantum Dots and Pyrene-functionalized Molecular Beacons for Detection of MicroRNAs ACS Appl. Mater. Interfaces, 7 (30), 16152–16156, 2015
1001. Book: N Karak Bio-Based Hyperbranched Polyurethane Nanocomposites In: Encyclopedia Of Polymer Science and Technology, 2015, 1–35.
1002. S Hassanzadeh, Z Feng, T Pettersson, M Hakkarainen A proof-of-concept for folate-conjugated and quercetin-anchored pluronic mixed micelles as molecularly modulated polymeric carriers for doxorubicin, Polymer, 74, 193–204, 2015
1003. Gegenhuber T, Gröschel A, Löblich T, Drechsler M, Ehlert S, Förster S, Schmalz N, Noncovalent Grafting of Carbon Nanotubes with Triblock Terpolymers: Toward Patchy 1D Hybrids. Macromolecules, 2015, 48 (6), pp 1767–1776
1004. Erdagi S, Doganci E, Uyanik C, Yilmaz F, Heterobifunctional poly ( $\epsilon$ -caprolactone): Synthesis of  $\alpha$ -cholesterol- $\omega$ -pyrene PCL via combination of ring-opening polymerization and “click” chemistry. Reactive and Functional Polymers , 99, (2016) 49–58
1005. Z Deng, L Wang, H Yu, X Zhai, Y Chen, Non-covalent dispersion of multi-walled carbon nanotubes in aqueous solution with hyperbranched polyethylene-g-poly (methacrylic acid). RSC Advances, 2016, 6, 27682-27689
1006. S Gao, Z Yu, J Peng, Y Xing, Y Ren, M Chen, Silsesquioxane-cored star amphiphilic polymer as an efficient dispersant for multi-walled carbon nanotubes. RSC Advances, 2016, 6, 30401-30404.
1007. N Acar, A Kinal, N Yener, A Yavaş, P Güloğlu A DFT and TDDFT investigation of interactions between pyrene and amino acids with cyclic side chains Computational and Theoretical Chemistry, 1081 (2016) 49–61
1008. P Güloğlu, N Acar. Photophysical and Computational Investigation of the intermolecular interactions of Pyrene with Phenothiazine and Promazine, Chemical Physics, 2016, 478, 150-158.



1009. Lucío M. I., Pichler F., Ramírez J. R., De la Hoz A., Sánchez-Migallón A., Hadad C., Quintana M., Giuliani A., Bracamonte V., Fierro J. L., Tavagnacco C., Herrero M. A., Plato M., Vázquez E., Triazine-Carbon Nanotubes: New Platforms for the Design of Flavin Receptors, *Chemistry – A European Journal*, 2016, 22, 26, 8879-8888.
1010. An, S.Y., Sun, S., Oh, J.K., Reduction-Responsive Sheddable Carbon Nanotubes Dispersed in Aqueous Solution, *Macromolecular Rapid Communications*, 2016, 37 (8), pp. 705-710.
1011. Yu, Z., Lin, S., Liu, G., Hu, J., Zhang, P., Tu, Y., Zou, H., Wei, Y., Gao, Z., Highly dispersible silver nanowires via a diblock copolymer approach for potential application in transparent conductive composites, *New Journal of Chemistry*, 2017, 41 (14), pp. 6349-6358
1012. Kharisova, O.V., Kharisov, B.I., Solubilization and Dispersion of Carbon Nanotubes, 2017, pp. 1-250
1013. Ilie, M., Baibarac, M., The spectrochemical behavior of composites based on poly (para-phenylenevinylene), reduced graphene oxide and pyrene, *Optical Materials*, 2017, 72, pp. 140-146
1014. Un, M., Temel, G., Preparation of water dispersible carbon nanotubes using photoinduced hyperbranched copolymerization and noncovalent interactions, *European Polymer Journal*, 2018, 105, pp. 398-404
1015. Bilgi, M., Karaca Balta, D., Temel, B.A., Temel, G., Single-Chain Folding Nanoparticles as Carbon Nanotube Catchers, *Journal of Polymer Science, Part A: Polymer Chemistry*, 2018, 56 (24), pp. 2709-2714.
1016. Lu, Y., Zong, X., Wang, Y., Zhang, W., Wu, Q., Liang, M., Xue, S., Noncovalent functionalization of hole-transport materials with multi-walled carbon nanotubes for stable inverted perovskite solar cells, *Journal of Materials Chemistry C*, 2019, 7 (45), pp. 14306-14313
1017. Kanimozhi, C., Shea, M.J., Ko, J., Wei, W., Huang, P., Arnold, M.S., Gopalan, P., Removable Nonconjugated Polymers to Debundle and Disperse Carbon Nanotubes, *Macromolecules*, 2019, 52 (11), pp. 4278-4286
1018. Jin, X.-Z., Yu, X., Yang, C., Qi, X.-D., Lei, Y.-Z., Wang, Y., Crystallization and hydrolytic degradation behaviors of poly(L-lactide) induced by carbon nanofibers with different surface modifications, *Polymer Degradation and Stability*, 2019, 170, art. no. 109014
1019. Abousalman-Rezvani, Z., Eskandari, P., Roghani-Mamaqani, H., Salami-Kalajahi, M. Functionalization of carbon nanotubes by combination of controlled radical polymerization and "grafting to" method, *Advances in Colloid and Interface Science*, 2020, 278, art. no. 102126
1020. Mei, B., Qin, Y., Agbolaghi, S., A review on supramolecules/nanocomposites based on carbonic precursors and dielectric/conductive polymers and their applications, *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, 2021, 269, art. no. 115181
1021. Zhou, Y., Firkowska-Boden, I., Arras, M. M. L., Jandt, K. D. "Polystyrene homopolymer enhances dispersion of MWCNTs stabilized in solution by a PS-B-P2Vp copolymer". *Langmuir*, 2021, 37(1), 391–399
1022. Chang D, Du C, Liu J, Sun W, Su Y, Zang D, Liu T. Effect of hydrophobic modification of block copolymers on the self-assembly, drug encapsulation and release behavior. *Journal of Molecular Liquids*. 2022, 368:120635.
1023. Roghani-Mamaqani, H. and Mardani, H., 2022. Types of Surface Modifications of Carbon Nanotubes. In *Surface Modified Carbon Nanotubes Volume 1: Fundamentals, Synthesis and Recent Trends* (pp. 67-90). American Chemical Society.

Petrov, P.; Jeleva, D.; Tsvetanov, Ch. B. Encapsulation of urease in double-layered hydrogels of macroporous poly(2-hydroxyethyl methacrylate) core and poly(ethylene oxide) outer layer: fabrication and biosensing properties *Polymer International* (2012), 61(2), 235-239.

1024. Gun'ko, Vladimir M.; Savina, Irina N.; Mikhalevsky, Sergey V. Cryogels: Morphological, structural and adsorption characterization *Advances in Colloid and Interface Science* (2013), 187-188, 1-46.
1025. Biswanath Mahanty, Subin Kim, Chang Gyun Kim Assessment of a Biostimulated or Bioaugmented Calcification System with *Bacillus pasteurii* in a Simulated Soil Environment *Microbial Ecology* 2013, 65 (3), 679-688
1026. Efremenko, E.N., Lyagin, I.V., Lozinsky, V.I., Enzymatic biocatalysts immobilized on/in the cryogel-type carriers (Book Chapter), *Supermacroporous Cryogels: Biomedical and Biotechnological Applications*, 2016, pp. 309-332.
1027. Demirci S, Sahiner N. Urease-Immobilized PEI Cryogels for the Enzymatic Hydrolysis of Urea and Carbon Dioxide Uptake. *Industrial & Engineering Chemistry Research*. 2022, 61(7):2771-82.

J. Hu, D. A. Koleva, Y. Ma, E. Schlagen, P. Petrov and K. Van Breugel, The influence of admixed micelles on the microstructural properties and global performance of cement-based materials, *Cem. Concr. Res.*, 2012, 42 (8), 1122

1028. J Zhang, F Bian, Y Zhang, Z Fang, C Fu, J Guo, Effect of pore structures on gas permeability and chloride diffusivity of concrete, *Construction and Building Materials*, 2018, 163, 402-413
1029. Farhadi, N., Peyvandi, A., Holmes, D., Soroushian, P., Balachandra, A.M. Effects of Graphite Nanoplatelets on the Structure of Cementitious Materials, *Iranian Journal of Science and Technology - Transactions of Civil Engineering*, 2019, 43, 403-411
1030. Mahmoud, H. Corrosion performance of carbon steel in N-doped mesoporous carbon spheres (NMCS)-containing alkaline medium in presence of chloride, *Materials Today Communications*, 2019, 21, 100677

Gröschel A H, Löbbling T I, Petrov P D, Müllner M, Kuttner C, Wieberger F, Müller A H E Janus Micelles as Effective Supracolloidal Dispersants for Carbon Nanotubes *Angewandte Chemie International Edition*, 2013, 52(13), 3602–3606

1031. I Choi, DD Kulkarni, W Xu, C Tsitsilianis, VV Tsukruk Star Polymer Unimicelles on Graphene Oxide Flakes *Langmuir*, 2013, 29 (31), 9761–9769
1032. B Li, L Zhao, HJ Qian, ZY Lu Coarse-grained simulation study on the self-assembly of miktoarm star-like block copolymers in various solvent conditions, *Soft Matter*, 2014, 10, 2245-2252
1033. R Liu, X Zeng, J Liu, Y Zheng, J Luo, X. Liu Dispersion of carbon nanotubes in water by self-assembled micelles of branched amphiphilic multifunctional copolymers with photosensitivity and electroactivity *Journal of Materials* 2014, 2, 14481-14492
1034. ZM Hudson, DJ Lunn, MA Winnik, I Manners Colour-tunable fluorescent multiblock micelles *Nature communications*, 2014, 5, 3372
1035. K Hu, DD Kulkarni, I Choi, VV Tsukruk Graphene-polymer nanocomposites for structural and functional applications *Progress in Polymer Science*, 2014, 39 (11), pp. 1934-1972
1036. Zou, J., He, X., Fan, J., Raymond, J.E., Wooley, K.L. Supramolecularly knitted tethered oligopeptide/single-walled carbon nanotube organogels *Chemistry - A European Journal* 2014, 20(29) 8842-8847
1037. J Xu, K Wang, J Li, H Zhou, X Xie, J Zhu, ABC Triblock Copolymer Particles with Tunable Shape and Internal Structure through 3D Confined Assembly, *Macromolecules*, 2015, 48 (8), pp 2628–2636
1038. R Deng, F Liang, X Qu, Q Wang, J Zhu, Z Yang, Diblock Copolymer Based Janus Nanoparticles, *Macromolecules*, 2015, 48 (3), pp 750–755.
1039. B Nandan, A Horechyy, Hairy Core–Shell Polymer Nano-objects from Self-Assembled Block Copolymer Structures, *ACS applied materials & interfaces*, 2015, 7 (23), pp 12539–12558.
1040. H Liu, W Wang, H Yin, Y Feng Solvent-driven formation of worm-like micelles assembled from a CO<sub>2</sub>-responsive triblock copolymer, *Langmuir*, 2015, 31 (32), pp 8756–8763
1041. Liu Shanqin, Zhang Yijun, Deng Renhua, Mei Luping, Progress in preparation of Janus nanoparticles by self-assembly of block copolymers. *Technology Review* 2016, 34 (2), 27-32
1042. R Deng, H Li, J Zhu, B Li, F Liang, F Jia, X Qu, Z Yang, Janus Nanoparticles of Block Copolymers by Emulsion Solvent Evaporation Induced Assembly, *Macromolecules*, 2016, 49 (4), 1362-1368
1043. R Liu, X Zeng, J Liu, J Luo, Y Zheng, X Liu, A glassy carbon electrode modified with an amphiphilic, electroactive and photosensitive polymer and with multi-walled carbon nanotubes for simultaneous determination of dopamine and paracetamol, *Microchimica Acta*, 2016, 183 (5), 1543-1551
1044. W Zhai, B Wang, Y Wang, YF He, P Song, R.-M. Wang, An Efficient Strategy for Preparation of Polymeric Janus Particles with Controllable Morphologies and Emulsifiabilities. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2016, 503, 94-100
1045. Schröder, J.H., Doroshenko, M., Pirner, D., Mauer, M.E.J., Förster, B., Boyko, V., Reck, B., Roschmann, K.J., Müller, A.H.E., Förster, S. Interfacial stabilization by soft Janus nanoparticles, *Polymer*, 2016, 106, pp. 208-217
1046. Zhai, W., He, Y., Wang, B., Xiong, Y., Song, P., Wang, R., Fabrication and applications of polymeric Janus particles, *Progress in Chemistry*, 2017, 29 (1), pp. 127-136
1047. Deng, R., Liang, F., Zhu, J., Yang, Z., Recent advances in the synthesis of Janus nanomaterials of block copolymers, *Materials Chemistry Frontiers*, 2017, 1 (3), pp. 431-443
1048. Poggi, E., Gohy, J.-F., Janus particles: from synthesis to application, *Colloid and Polymer Science*, 2017, 295 (11), pp. 2083-2108.
1049. Yin, H., Wang, W., Mu, M., Feng, Y., CO<sub>2</sub>-Induced Morphological Transition of Co-Assemblies from Block-Random Segmented Polymers, *Macromolecular Rapid Communications*, 2017, 38 (23), art. no. 1700437
1050. Zhai, Z., Yan, X., Xu, J., Song, Z., Shang, S., Rao, X., Reversible dispersion and precipitation of single-walled carbon nanotubes using a pH-responsive rigid surfactant, *Chemical Communications*, 2018, 54 (86), pp. 12171-12173

1051. Liang, F., Liu, B., Cao, Z., Yang, Z., Janus Colloids toward Interfacial Engineering, *Langmuir*, 2018, 34 (14), pp. 4123-4131.
1052. Han, Y., Cai, C., Lin, J., Gong, S., Xu, W., Hu, R., Self-Assembly of Rod-Coil Block Copolymers on Carbon Nanotubes: A Route toward Diverse Surface Nanostructures, *Macromolecular Rapid Communications*, 2018, 39 (10), art. no. 1800080
1053. Yu, B., Cong, H., Peng, Q., Gu, C., Tang, Q., Xu, X., Tian, C., Zhai, F., Current status and future developments in preparation and application of nonspherical polymer particles, *Advances in Colloid and Interface Science*, 2018, 256, pp. 126-151
1054. Tan, K., Ma, Q., Luo, J., Xu, S., Zhu, Y., Wei, W., Liu, X., Gu, Y. Water-dispersible molecularly imprinted nanohybrids via co-assembly of carbon nanotubes with amphiphilic copolymer and photocrosslinking for highly sensitive and selective paracetamol detection, *Biosensors and Bioelectronics*, 2018, 117, pp. 713-719
1055. Wang, T., Song, B., Qiao, K., Huang, Y., Wang, L., Effect of dimensions and agglomerations of carbon nanotubes on synchronous enhancement of mechanical and damping properties of epoxy nanocomposites *Nanomaterials*, 2018, 8 (12), art. no. 996,
1056. Zhai, Z., Yan, X., Xu, J., Song, Z., Shang, S., Rao, X., Incorporation and recovery of SWNTs through phase behavior and aggregates transition induced by changes in pH in a cationic surfactants system, *Carbon*, 2019, 141, pp. 618-625.
1057. Wang, Q., Xiao, A., Shen, Z., Fan, X.-H., Janus particles with tunable shapes prepared by asymmetric bottlebrush block copolymers, *Polymer Chemistry*, 2019, 10 (3), pp. 372-378
1058. Agrawal, G., Agrawal, R., Janus Nanoparticles: Recent Advances in Their Interfacial and Biomedical Applications, *ACS Applied Nano Materials*, 2019, 2 (4), pp. 1738-1757
1059. Xu, S., Zhang, Y., Zhu, Y., Wu, J., Li, K., Lin, G., Li, X., Liu, R., Liu, X., Wong, C.-P., Facile one-step fabrication of glucose oxidase loaded polymeric nanoparticles decorating MWCNTs for constructing glucose biosensing platform: Structure matters, *Biosensors and Bioelectronics*, 2019, 135, pp. 153-159
1060. Percebom, A.M., Costa, L.H.M., Formation and assembly of amphiphilic Janus nanoparticles promoted by polymer interactions, *Advances in Colloid and Interface Science*, 2019, 269, pp. 256-269
1061. Xu, W., Xu, Z., Cai, C., Lin, J., Zhang, S., Zhang, L., Lin, S., Yao, Y., Qi, H., Ordered Surface Nanostructures Self-Assembled from Rod-Coil Block Copolymers on Microspheres, *Journal of Physical Chemistry Letters*, 2020, 10 (20), pp. 6375-6381
1062. Yi, C., Yang, Y., Liu, B., He, J., Nie, Z., Polymer-guided assembly of inorganic nanoparticles, *Chemical Society Reviews*, 2020, 49 (2), pp. 465-508
1063. Feng, C., Zhu, D., Wang, Y., Jin, S., Electromechanical behaviors of graphene reinforced polymer composites: A review, *Materials*, 2020, 13 (3), art. no. 528
1064. Zhang, K., Ma, J., Lyu, B., Shi, G., Zhou, B., Tian, Y., Influence of "tentacle structure" on the properties of jellyfish-like 3D dispersants based on tannic acid for preparing high-concentrated coal-water slurry, *Fuel*, 2020, 274, art. no. 117860
1065. Chen, K., Hu, X., Zhu, N., Guo, K., Design, Synthesis, and Self-Assembly of Janus Bottlebrush Polymers, *Macromolecular Rapid Communications*, 2020, 41 (20), art. no. 2000357
1066. Hils, C., Manners, I., Schöbel, J., Schmalz, H., Patchy micelles with a crystalline core: Self-assembly concepts, properties, and applications, *Polymers*, 2021, 13 (9), art. no. 1481
1067. Ponnammma, D., Yin, Y., Salim, N., Parameswaranpillai, J., Thomas, S., Hameed, N., Recent progress and multifunctional applications of 3D printed graphene nanocomposites, *Composites Part B: Engineering*, 2021, 204, art. no. 108493
1068. Sun, Yu-Wei, Zi-Qin Chen, You-Liang Zhu, Zhan-Wei Li, Zhong-Yuan Lu, and Zhao-Yan Sun. "Intercluster Exchange-Stabilized Novel Complex Colloidal  $\chi$ c Phase." *The Journal of Physical Chemistry Letters* 12, no. 36 (2021): 8872-8881.
1069. Sun YW, Li ZW, Sun ZY. Multiple 2D crystal structures in bilayered lamellae from the direct self-assembly of 3D systems of soft Janus particles. *Physical Chemistry Chemical Physics*. 2022, 24(13):7874-81.
1070. Wang, H., Li, H., Gu, P., Huang, C., Chen, S., Hu, C., Lee, E., Xu, J. and Zhu, J., Electric, magnetic, and shear field-directed assembly of inorganic nanoparticles. *Nanoscale*, 2023,15, 2018-2035
1071. Dorsey, M.A., Velev, O.D. and Hall, C.K., Computational investigation of the phase behavior of colloidal squares with offset magnetic dipoles. *Soft Matter*, 2023, 19(22), pp.4123-4136.
1072. Nabiyani, A., Muttathukattil, A., Tomazic, F., Pretzel, D., Schubert, U.S., Engel, M. and Schacher, F.H., Self-Assembly of Core-Shell Hybrid Nanoparticles by Directional Crystallization of Grafted Polymers. *arXiv preprint arXiv:2023, 2306.09953*.
1073. Tang, W., Shen, Y., Yang, P., Lin, C., Ke, Z. and Rao, X., Single-walled Carbon Nanotubes Dispersed by CO<sub>2</sub> Responsive Surfactants for Fabricating High Conductive Epoxy Composites. *ChemistrySelect*, 2023, 8(5), p.e202204303.
1074. Shen, X., He, H. and Nie, Z., Self-Assembly of Hairy Nanoparticles with Polymeric Grafts. *Hairy Nanoparticles: From Synthesis to Applications*, 2023 pp.167-226.

Petrov P.D., Ivanova N.I., Apostolova M.D., Tsvetanov C.B. Biodegradable polymer network encapsulated polyplex for DNA delivery *RSC Advances*, 2013, 3 (11), pp. 3508-3511.

1075. Kumar, S., De, P. Fluorescent labelled dual-stimuli (pH/thermo) responsive self-assembled side-chain amino acid based polymers *Polymer* 2014, 55(3), 824-832
1076. Емилия Дечева Иванова, дисертационен труд „Хибридни полимери, съдържащи полипептидни блокове, получаване, охарактеризиране и потенциално биомедицинско приложение“, специалност „Химия на високомолекулните съединения“ 01.05.06. София 2014, Институт по полимери – БАН.
1077. Iv. Dimitrov, Chapter 4: Poly(L-lysine) – based Copolymers: Synthetic Strategies and Biomedical Applications, in *Cationic Polymers in Regenerative Medicine*, RSC Polymer Series No13 (ISBN: 978-1-84973-937-5) Sangram K. Samal, Peter Dubruel, Eds., RSC 2015
1078. ER Haladjova, G Mountrichas, S Pispas, S Rangelov, Poly (Vinyl Benzyl Trimethylammonium Chloride) Homo-and Block Copolymers Complexation with DNA. *The Journal of Physical Chemistry B*, 2016, 120 (9), pp 2586–2595
1079. M Karimi, P S Zangabad, A Ghasemi, M Amiri, M Bahrami, H Malekzad, H G Asl, Z Mahdiah, M Bozorgomid, A Ghasemi, M R T Boyuk, and M R Hamblin, Temperature-responsive smart nanocarriers for delivery of therapeutic agents: applications and recent advances. *ACS Appl. Mater. Interfaces*, 2016, 8 (33), 21107–21133
1080. R Szweda, B Trzebicka, A Dworak, L Otulakowski, D Kosowski, J Hertlein, E Haladjova, S Rangelov, D Szweda, *Smart Polymeric Nanocarriers of Met-enkephalin*, *Biomacromolecules*, 2016, 17 (8), 2691–2700
1081. Ivanova, Ts., Haladjova, E., Mees, M., Momekova, D., Rangelov, S., Momekov, G., Hoogenboom, R., Characterization of polymer vector systems based on partially hydrolyzed polyoxazoline for gene transfection, *Pharmacia*, 2016, 63 (2), pp. 3-8
1082. Mees, M., Haladjova, E., Momekova, D., Momekov, G., Shestakova, P.S., Tsvetanov, C.B., Hoogenboom, R., Rangelov, S., Partially Hydrolyzed Poly(n-propyl-2-oxazoline): Synthesis, Aqueous Solution Properties, and Preparation of Gene Delivery Systems, *Biomacromolecules*, 2016, 17 (11), pp. 3580-3590
1083. Ahmadi, Y., De Llano, E., Barišić, I., (Poly)cation-induced protection of conventional and wireframe DNA origami nanostructures, *Nanoscale*, 2018, 10 (16), pp. 7494-7504
1084. Quang Tran, H., Bhave, M., Yu, A., Current Advances of Hollow Capsules as Controlled Drug Delivery Systems, *ChemistrySelect*, 2020, 5 (19), pp. 5537-5551
1085. Oleszko-Torbus, N., Mendrek, B., Wałach, W., Fus-Kujawa, A., Mitova, V., Koseva, N. and Kowalczyk, A., 2024. Amino-modified 2-oxazoline copolymers for complexation with DNA. *Polymer Chemistry*, 15(8), pp.742-753.

Christova N., Petrov P., Kabaivanova L. Biosurfactant production by *pseudomonas aeruginosa* BN10 cells entrapped in cryogels *Zeitschrift fur Naturforschung - Section C Journal of Biosciences*, 2013, 68 C (1-2), pp. 47-52.

1086. Lozinsky, V.I., A brief history of polymeric cryogels, *Advances in Polymer Science*, 2014, 263, 1-48.
1087. Subsanguan, T., Khondee, N., Nawavimarn, P., Chen, C.-Y., Luepromchai, E., Reuse of Immobilized *Weissella cibaria* PN3 for Long-Term Production of Both Extracellular and Cell-Bound Glycolipid Biosurfactants, *Frontiers in Bioengineering and Biotechnology*, 2020, 8,751
1088. Pardhi, Dimple S., Rachana Bhatt, Rakeshkumar R. Panchal, Vikram H. Raval, and Kiransinh N. Rajput. "Rhamnolipid Biosurfactants Structure, Biosynthesis, Production, and Applications." In *Microbial Surfactants*, 2021, pp. 27-62. CRC Press.
1089. Manga, Enuh Blaise, Pınar Aytar Celik, Ahmet Cabuk, and Ibrahim M. Banat. "Biosurfactants: Opportunities for the development of a sustainable future." *Current Opinion in Colloid & Interface Science* 2021, 56, 101514.
1090. Sanjivkumar M, Ghosh T, Silambarasan TS, Sophia SS. Influences of Microorganisms based Biosurfactants in Bioremediation Process: An Eco-friendly Approach. In *Microbial and Biotechnological Interventions in Bioremediation and Phytoremediation* 2022 (pp. 111-131). Springer, Cham.
1091. Çelik, P.A., Yaman, B.N., Manga, E.B. and Çabuk, A., Production and commercial significance of biosurfactants. In *Microbiology for Cleaner Production and Environmental Sustainability* 2023, pp. 3-36. CRC Press.

P.Petrov, K. Yoncheva, P. Mokreva, S. Konstantinov, J. Irache, A. H. E. Müller, Poly(ethylene oxide)-block-poly(n-butyl acrylate)-block-poly(acrylic acid) triblock terpolymers with highly asymmetric hydrophilic blocks: synthesis and aqueous solution properties, *Soft Matter*, 2013,9, 8745-8753

1092. Ines Freudensprung, PhD Theses "Tandempolymerisation en an polymeren und anorganischen Trägermaterialien", Am Fachbereich Chemie, Pharmazie und Geowissenschaften der Johannes Gutenberg-Universität, Mainz 2016, p 87.

Petrov P. D., Tsvetanov C. B. Cryogels via UV Irradiation, in *Polymeric Cryogels: Macroporous Gels with Remarkable Properties*, Oguz Okay, Ed., *Advances in Polymer Science* 2014, 263, 199-222.

1093. O.V. Sinitsyna, Davydova, N. K.; Sergeev, V. N.; et al., Nanostructured films by the self-assembly of bioactive copolymer. *RSC Advances* 4 (98) 55565-55570 (2014)

1094. MM Ozmen, Q Fu, J Kim, GG Qiao, A rapid and facile preparation of novel macroporous silicone-based cryogels via photo-induced thiol-ene click chemistry, *Chemical Communications*, 2015, 51, 17479-17482
1095. M Zinggeler, JN Schönberg, PL Fosso, T Brandstetter, J Rühe, Functional Cryogel Microstructures Prepared by Light Induced Crosslinking of a Photoreactive Copolymer, *ACS Appl. Mater. Interfaces*, 2017, 9 (14), 12165–12170
1096. Zinggeler, M., Schönberg, J.-N., Fosso, P.L., Brandstetter, T., Rühe, J., Functional Cryogel Microstructures Prepared by Light-Induced Cross-Linking of a Photoreactive Copolymer, *ACS Applied Materials and Interfaces*, 2017, 9(14), pp. 12165-12170
1097. Razavi, M., Qiao, Y., Thakor, A.S., Three-dimensional cryogels for biomedical applications, *Journal of Biomedical Materials Research - Part A*, 2019, 107(12), pp. 2736-2755
1098. Lozinsky, V.I., Cryostructuring of polymeric systems. 55. retrospective view on the more than 40 years of studies performed in the A.N.Nesmeyanov institute of organoelement compounds with respect of the cryostructuring processes in polymeric systems, *Gels*, 2020, 6(3),29, pp. 1-59
1099. He, Yujing, Chunhua Wang, Chenzhi Wang, Yuanhang Xiao, and Wei Lin. "An Overview on Collagen and Gelatin-Based Cryogels: Fabrication, Classification, Properties and Biomedical Applications." *Polymers* 13, no. 14 (2021): 2299.
1100. Nicol, Erwan. "Photopolymerized Porous Hydrogels." *Biomacromolecules* 22, no. 4 (2021): 1325-1345.
1101. Jones, Luke O., Leah Williams, Tasmin Boam, Martin Kalmet, Chidubem Oguike, and Fiona L. Hatton. "Cryogels: recent applications in 3D-bioprinting, injectable cryogels, drug delivery, and wound healing." *Beilstein Journal of Organic Chemistry* 17, no. 1 (2021): 2553-2569.
1102. An, Lu-Yan, Zhen Dai, Bin Di, and Li-Li Xu. "Advances in Cryochemistry: Mechanisms, Reactions and Applications." *Molecules* 26, no. 3 (2021): 750.
1103. Tyshkunova IV, Poshina DN, Skorik YA. Cellulose Cryogels as Promising Materials for Biomedical Applications. *International Journal of Molecular Sciences*. 2022, 23(4):2037.
- Haladjova E, Toncheva-Moncheva N, Apostolova M D, Trzebicka B, Dworak A, Petrov P, Dimitrov I, Rangelov S, Tsvetanov C B, *Polymeric Nanoparticle Engineering: From Temperature-Responsive Polymer Mesoglobules to Gene Delivery Systems*, *Biomacromolecules*, 2014, 15(12),4377-4395
1104. J Ford, P Chambon, J North, FL Hatton, M Giardiello, A Owen, S P. Rannard, Multiple and Co-Nanoprecipitation Studies of Branched Hydrophobic Copolymers and A–B Amphiphilic Block Copolymers, Allowing Rapid Formation of Sterically Stabilized Nanoparticles in Aqueous Media, *Macromolecules*, 2015, 48 (6), pp 1883–1893
1105. K Urbiola, L Blanco-Fernandez, C. Tros de Ilarduya, Nanoparticulated Polymeric Systems for Gene Delivery, *Current Pharmaceutical Design*, 2015, 21(29), 4193-4200.
1106. J Dong, X Yue, J He, Template Polymerization of Acrylamide in Ethanol/Water Mixtures. *Australian Journal of Chemistry* – 2016, 69(10),1149-1154
1107. N Davydova, O Sinitsyna, VN Sergeev, I Perevyazko, E. E. Laukhina. Towards DNA sensing polymers: interaction between acrylamide/3-(N, N-dimethylaminopropyl)-acrylamide and DNA phage  $\lambda$  at various N/P ratios, *RSC Advances*, 2016, 6, 58212-58217
1108. A Vasile, M Scurtu, C Munteanu, M Teodorescu, M Anastasescu, I Balint, Synthesis of Well-Defined Pt Nanoparticles with Controlled Morphology in the Presence of New Types of Thermosensitive Polymers, *Process Safety and Environmental Protection*, 2016
1109. A Rezaei, O Akhavan, E Hashemi, M Shamsara, Toward Chemical Perfection of Graphene-Based Gene Carrier via Ugi Multicomponent Assembly Process, *Biomacromolecules*, 2016,
1110. Z Wang, Y Liao, Reversible dissolution/formation of polymer nanoparticles controlled by visible light, *Nanoscale*, 2016,8, 14070-14073
1111. Book: V.F. Cardoso, C. Ribeiro, S. Lanceros-Mendez, Chapter 3: Metamorphic biomaterials, In *Bioinspired Materials for Medical Applications*, Eds L Rodrigues, M Mota, Elsevier, UK, 2017, p.88
1112. R Umapathi, T Yvonne Mkhize, P Venkatesu, N Deenadayalu, The influence of various alkylammonium-based ionic liquids on the hydration state of temperature-responsive polymer, *Journal of Molecular Liquids*, 225 (2017) 186–194
1113. X Wang, J Gu, L Tian, X Zhang, Hierarchical Porous Interlocked Polymeric Microcapsules: Sulfonic Acid Functionalization as Acid Catalysts, *Scientific Reports*, 2017, 7, Article number: 44178
1114. Wang Z, PhD Thesis: "Metastable-state photoacids and the related photo-responsive polymers". Florida Institute of Technology, Melbourne, Florida, USA, 2017
1115. Vasile A, Scurtu M, Munteanu C, Teodorescu M, Anastasescu M, Balint I, Synthesis of well-defined Pt nanoparticles with controlled morphology in the presence of new types of thermosensitive polymers. *Process Safety and Environmental Protection* 108, 144-152, 2017
1116. Sahoo S, Bera S, Maiti S, Dhara D, Temperature- and composition-dependent DNA condensation by thermosensitive block copolymers. *ACS Omega* 2, 7946-7958, 2017



1117. Ronco L, Basterretxea A, Mantione D, Aguirresarobe R, Minari R, Gugliotta L, Mecerreyes D, Sardon H, Temperature responsive PEG-based polyurethanes “à la carte”. *Polymer* 122, 117-124, 2017
1118. Narang P, Venkatesu P, New endeavours involving the cooperative behaviour of TMAO and urea towards the globular state of poly (N-isopropylacrylamide). *RSC Advances* 7, 34023-34033, 2017
1119. Nadeau J, Expression of genes in bacteria, yeast, and cultured mammalian cells. In: Introduction to experimental biophysics, second edition: Biological methods for physical scientists. CRC Press, Taylor & Francis Group, USA, ch. 3, pp. 75-128, 2017
1120. Mees M, PhD Thesis: “Poly(2-alkyl-2-oxazoline)s and poly(ethylene imine). How one thing led to the other”. Gent University, Belgium, 2017
1121. Hao J, Gao Y, Li Y, Yan Q, Hu J, Ju Y, Thermosensitive triterpenoid-appended polymers with broad temperature tunability regulated by host-guest chemistry. *Chemistry - An Asian Journal* 12, 2231-2236, 2017
1122. Cardoso V, Ribeiro C, Lanceros-Mendez S, Metamorphic biomaterials In: Rodrigues L, Mota M, eds, Bioinspired materials for medical applications. Woodhead Publishing, Elsevier Ltd., Duxford, UK, ch. 3, pp. 69-99, 2017
1123. Umapathi R, Reddy P, Rani A, Venkatesu P, Influence of additives on thermoresponsive polymers in aqueous media: A case study of poly(N-isopropylacrylamide). *Physical Chemistry Chemical Physics* 20 (15), 9717-9744, 2018
1124. Lin G, Li L, Panwar N, Wang j, Tjin S, Wang X, Yong K-T, Non-viral gene therapy using multifunctional nanoparticles: Status, challenges, and opportunities. *Coordination Chemistry Reviews* 374, 133-152, 2018
1125. He X, Liang F, Wang F, Zou L, Wang J, Tang C, Zhao K, Wei D, Targeted delivery and thermo/pH-controlled release of doxorubicin by novel nanocapsules. *Journal of Materials Science* 53 (4), 2326-2336, 2018
1126. Gheybi H, Sattari S, Bodaghi A, Soleimani K, Dadkhah A, Adeli M, 5 – Polyglycerols. In: Parambath A, ed, Engineering of biomaterials for drug delivery systems beyond polyethylene glycol. A volume in Woodhead Publishing Series in Biomaterials, Woodhead Publishing, an imprint of Elsevier, Duxford, UK, pp. 103-171, 2018
1127. Zhang Y, Zhu G, Dong B, Tang J, Li J, Yang G, Hong S, Xing F, One-step generation of multi-stimuli responsive microcapsules via multilevel interfacial assembly of polymeric complexes. *ACS Applied Materials & Interfaces* 11 (46), 43741-43750, 2019
1128. Peng H, Rübsam K, Hu C, Jakob F, Schwaneberg U, Pich A, Stimuli-responsive poly(N-vinylactams) with glycidyl side groups: Synthesis, characterization and conjugation with enzymes. *Biomacromolecules* 20 (2), 992-1006, 2019
1129. Narang P, Venkatesu P, Efficacy of several additives to modulate the phase behavior of biomedical polymers: A comprehensive and comparative outlook. *Advances in Colloid and Interface Science* 274, 102042, 2019
1130. Jana N, Colloidal nanoparticles: Functionalization for biomedical applications. CRC Press, Taylor & Francis Group, Boca Raton, USA, ch. 2, pp. 11-22, 2019
1131. Cagli E, PhD Thesis: “Synthesis, aqueous solution behavior and layer-by-layer self-assembly of poly(2-alkyl-2-oxazoline)s”. Graduate School of Natural And Applied Sciences, Middle East Technical University, Ankara, Turkey, 2019.
1132. Cagli E, Ugur E, Ulasan S, Banerjee S, Erel-Goktepe I, Effect of side chain variation on surface and biological properties of poly(2-alkyl-2-oxazoline) multilayers. *European Polymer Journal* 114, 452-463, 2019
1133. Cagli E, Yildirim E, Yang S-W, Erel-Goktepe I, An experimental and computational approach to pH-dependent self-aggregation of poly(2-isopropyl-2-oxazoline). *Journal of Polymer Science Part B Polymer Physics* 57 (4), 210-221, 2019
1134. Cao-Luu N-H, Pham, Q-T, Yao Z-H, Wang F-M, Chern C-S, Synthesis and characterization of poly(N-isopropylacrylamide-co-acrylamide) mesoglobule core-silica shell nanoparticles. *Journal of Colloid and Interface Science* 536, 536-547, 2019
1135. Cao-Luu N-H, PhD Thesis: “Synthesis and characterization of poly(N-isopropylacrylamide-co-acrylamide) mesoglobule core-silica shell particles”. Department of Chemical Engineering, National Taiwan University of Science and Technology, Taiwan, 2019
1136. Gao F, Mi Y, Wu X, Yao J, Qi Q, Cao Z, Preparation of thermoresponsive poly(N-vinylcaprolactam-co-2-methoxyethyl acrylate) nanogels via inverse miniemulsion polymerization. *Journal of Applied Polymer Science* 136 (46), 48237, 2019
1137. Mendrek B, Fus-Kujawa A, Teper P, Botor M, Kubacki J, Sieroń A, Kowalczyk A, Star polymer-based nanolayers with immobilized complexes of polycationic stars and DNA for deposition gene delivery and recovery of intact transfected cells. *International Journal of Pharmaceutics*, 589, 119823, 2020
1138. Xia D, Wang P, Ji X, Khashab N, Sessler J, Huang F, Functional supramolecular polymeric networks: The marriage of covalent polymers and macrocycle-based host-guest interactions. *Chemical Reviews*. 120 (13), 6070-6123, 2020
1139. Atanasova D, Staneva D, Grabchev I, Textile materials modified with stimuli-responsive drug carrier for skin topical and transdermal delivery. *Materials* 14 (4), 930, 2021

1140. Kanto R, Yonenuma R, Yamamoto M, Furusawa H, Yano Sh, Haruki M, Mori H, Mixed polyplex micelles with thermoresponsive and lysine-based zwitterionic shells derived from two poly(vinyl amine)-based block copolymers. *Langmuir* 37 (10), 3001-3014, 2021
1141. Giaouzi, Despoina, and Stergios Pispas. "Complexation behavior of PNIPAM-b-QPDMAEA copolymer aggregates with linear DNAs of different lengths." *European Polymer Journal* 155 (2021): 110575.
1142. Fonseca, Lucas Polo, and Maria Isabel Felisberti. "Thermo-and UV-responsive amphiphilic nanogels via reversible [4+ 4] photocycloaddition of PEG/PCL-based polyurethane dispersions." *European Polymer Journal* 160 (2021): 110800.
1143. Skandalis, Athanasios, Dimitrios Selianitis, and Stergios Pispas. "PnBA-b-PNIPAM-b-PDMAEA Thermo-Responsive Triblock Terpolymers and Their Quaternized Analogs as Gene and Drug Delivery Vectors." *Polymers* 13, no. 14 (2021): 2361.
1144. Giaconia MA, dos Passos Ramos S, Fratelli C, Assis M, Mazzo TM, Longo E, De Rosso VV, Braga AR. Fermented Jussara: Evaluation of Nanostructure Formation, Bioaccessibility, and Antioxidant Activity. *Frontiers in Bioengineering and Biotechnology*. 2022, 10.
1145. Fahmi A, Abdur-Rahman M, Mahareek O. Synthesis, characterization, and cytotoxicity of doxorubicin-loaded polycaprolactone nanocapsules as controlled anti-hepatocellular carcinoma drug release system. *BMC chemistry*. 2022, 16(1) art. no. 95.
1146. Puskas JE, Shrikhande G, Krisch E, Molnar K. Multifunctional PEG Carrier by Chemoenzymatic Synthesis for Drug Delivery Systems: In Memory of Professor Andrzej Dworak. *Polymers*. 2022, 14(14):2900.
1147. Liu H, Prachyathipsakul T, Koyasseril-Yehiya TM, Le SP, Thayumanavan S. Molecular bases for temperature sensitivity in supramolecular assemblies and their applications as thermoresponsive soft materials. *Materials Horizons*. 2022, 9(1):164-93.
1148. Luckanagul, J.A., Alcantara, K.P., Bulatao, B.P.I., Wong, T.W., Rojsitthisak, P. and Rojsitthisak, P., Thermo-Responsive Polymers and Their Application as Smart Biomaterials. In *Smart Nanomaterials in Biomedical Applications 2022*, pp. 291-343. Cham: Springer International Publishing.
1149. Kumar, K., Umapathi, R., Mor, S., Ghoreishian, S.M., Tiwari, J.N., Farani, M.R., Huh, Y.S. and Venkatesu, P., Manipulation of Thermoresponsive Polymers Using Biomolecules. *ACS Applied Polymer Materials*, 2023, 5(5), pp.3181-3200.
1150. Turan, C., Terzioglu, I., Gundogdu, D. and Erel-Goktepe, I., Synthesis of poly (2-isopropyl-2-oxazoline)-b-poly (2-phenyl-2-oxazoline)-b-poly (2-isopropyl-2-oxazoline) and its self-assembly into polymersomes: Temperature-dependent aqueous solution behavior. *Materials Today Communications*, 2023, 35, p.106094.
- Stoyneva V, Momekova D, Kostova B, Petrov P Stimuli sensitive super-macroporous cryogels based on photo-crosslinked 2-hydroxyethylcellulose and chitosan Carbohydrate polymers 2014, 99, 825-830
1151. Z Modrzejewska, K Nawrotek, W Maniukiewicz, T. Douglasc, Structural characteristics of thermosensitive chitosan glutamate hydrogels in variety of physiological environments *Journal of Molecular Structure* 1074, 2014, 629–635
1152. N Sahiner, F Seven Energy and environmental usage of super porous poly (2-acrylamido-2-methyl-1-propan sulfonic acid) cryogel support *RSC Advances*, 2014, 4, 23886-23897
1153. S Hajizadeh, B Mattiasson , Cryogels with Affinity Ligands as Tools in Protein Purification In: *Affinity Chromatography: Methods and Protocols*, 2015, 1286, pp 183-200
1154. C Fodor, J Bozi, M Blazsó, B Iván, Unexpected thermal decomposition behavior of poly (N-vinylimidazole)-l-poly (tetrahydrofuran) amphiphilic conetworks, a class of chemically forced blends, *RSC Advances*, 2015, 5, 17413-17423
1155. A Kibeche, A Dionne, R Brion-Roby C Gagnon, J Gagnon Simple and green technique for sequestration and concentration of silver nanoparticles by polysaccharides immobilized on glass beads in aqueous media, *Chemistry Central Journal* (2015) 9:34
1156. N Sahiner, F Seven, H Al-lohedan , Superporous Cryogel-M (Cu, Ni, and Co) Composites in Catalytic Reduction of Toxic Phenolic Compounds and Dyes from Wastewaters, *Water, Air, & Soil Pollution*, 2015, , 226:122.
1157. J Ma, X Li, Y Bao , Advances in cellulose-based superabsorbent hydrogels, *RSC Advances*, 2015, 5, 59745-59757.
1158. Kali, G., Iván, B. Poly(methacrylic acid)-l-polyisobutylene amphiphilic conetworks by using an ethoxyethyl-protected comonomer: Synthesis, protecting group removal in the cross-linked state, and characterization, *Macromolecular Chemistry and Physics*, 2015, 216 (6), pp. 605-613
1159. MM Ozmen, Q Fu, J Kim, GG Qiao, A rapid and facile preparation of novel macroporous silicone-based cryogels via photo-induced thiol-ene click chemistry, *Chemical Communications*, 2015, 51, 17479-17482
1160. Wu J, Li L, Wu X, Dai Q, Zhang R, Zhang Y, Characterization of Oat (*Avena nuda* L.)  $\beta$ -Glucan Cryogelation Process by Low Field NMR. *J. Agric. Food Chem*, 64 (2016) 310-319
1161. L Ma, X Shen, H Zhou, J Zhu, C Xi, Z Ji, L Kong, Synthesis of Cu 3 P nanocubes and their excellent electrocatalytic efficiency for the hydrogen evolution reaction in acidic solution. *RSC Advances*, 2016, 6, 9672-9677.
1162. G Fundueanu, M Constantiu, S Bucatariu, P. Ascenzi, Poly (N-isopropylacrylamide-co-N-isopropylmethacrylamide) Thermo-Responsive Microgels as Self-Regulated Drug Delivery System, *Macromolecular Chemistry and Physics*, 2016, 217(22), 2525–2533

1163. MV Konovalova, PA Markov, EA Durnev, D Kurek, S. Popov, V Varlamov, Preparation and biocompatibility evaluation of pectin and chitosan cryogels for biomedical application *Journal of Biomedical Materials Research Part A*, 105(2) 2017, 547–556
1164. Thones S., Kutz L.M., Oehmichen S., Becher J., Heymann K., Saalbach A., Knolle W., Schnabelrauch M., Reichelt S., Anderegg U. New E-beam-initiated hyaluronan acrylate cryogels support growth and matrix deposition by dermal fibroblasts, *International Journal of Biological Macromolecules*, 2017, 94, 611-620.
1165. JC Villaça, LCRP da Silva, K Adilis, GS de Almeida, F R Locatelli, LC Maia, C R Rodrigues, V P.de Sousa, M I B Tavares, LM Cabral, Development and characterization of clay-polymer nanocomposite membranes containing sodium alendronate with osteogenic activity, *Applied Clay Science* 146, 2017, 475-486
1166. Hasan A.M.A., Abdel-Raouf M.ES. (2018) Cellulose-Based Superabsorbent Hydrogels. In: Mondal M. (eds) Cellulose-Based Superabsorbent Hydrogels. Polymers and Polymeric Composites: A Reference Series. Springer, Cham
1167. Ribeiro A.M., Magalhães M., Veiga F., Figueiras A. (2018) Cellulose-Based Hydrogels in Topical Drug Delivery: A Challenge in Medical Devices. In: Mondal M. (eds) Cellulose-Based Superabsorbent Hydrogels. Polymers and Polymeric Composites: A Reference Series. Springer, Cham
1168. SS Suner, N Sahiner, Humic acid particle embedded super porous gum Arabic cryogel network for versatile use, *Polymers for Advanced Technologies*, 2018, 29, 151-159
1169. FH Zulkifli, FSJ Hussain, WSW Harun, MM.Yusoff, Highly porous of hydroxyethyl cellulose biocomposite scaffolds for tissue engineering, *International Journal of Biological Macromolecules*, 122, (2019), 562-571
1170. H.Thakar, S. M. Sebastian, S. Mandal, A. Pople, G. Agarwal, A. Srivastava "Biomolecules-Conjugated Macroporous Hydrogels Attracts Biomedical Applications", *ACS Biomater. Sci. Eng.*, 2019, online: DOI: 10.1021/acsbomaterials.9b0077
1171. Ji, S., Kim, S.K., Song, W., (...), An, K.-S., Lee, S.S. "An eco-friendly cellulose acetate chemical sorbent for hazardous volatile organic liquid spill: a perfect material to solve the issue of evaporating hazards", *Cellulose*, 2019, 26(4), 2587-2597
1172. Perez-Puyana, V., Jiménez-Rosado, M., Romero, A., Guerrero, A. "Crosslinking of hybrid scaffolds produced from collagen and chitosan". *International Journal of Biological Macromolecules*, 2019, 139, 262-269
1173. Stroescu M., Isopencu G., Busuioc C., Stoica-Guzun A. (2019) Antimicrobial Food Pads Containing Bacterial Cellulose and Polysaccharides. In: Mondal M. (eds) Cellulose-Based Superabsorbent Hydrogels. Polymers and Polymeric Composites: A Reference Series. Springer, Cham, pp 1303-1338
1174. Zaitseva, O., Khudyakov, A., Sergushkina, M., Solomina, O., Polezhaeva, T. Pectins as a universal medicine *Fitoterapia*, 146, art. no. 104676 (2020)
1175. Takeshita, S., Zhao, S., Malfait, W.J., Koebel, M.M., Chemistry of Chitosan Aerogels: Three-Dimensional Pore Control for Tailored Applications, *Angewandte Chemie - International Edition*, 2021, 60(18), pp. 9828-9851
1176. Fu, M., Conroy, E., Byers, M., Pranatharthihran, L., Bilbault, T., Development and Validation of a Discriminatory Dissolution Model for an Immediately Release Dosage Form by DOE and Statistical Approaches, *AAPS PharmSciTech*, 2021, 22(4), 140
1177. Savina, Irina N., Mohamed Zoughaib, and Abdulla A. Yergeshov. "Design and Assessment of Biodegradable Macroporous Cryogels as Advanced Tissue Engineering and Drug Carrying Materials." *Gels* 7, no. 3 (2021): 79.
1178. Klivenko, A. N., B. Kh Mussabayeva, B. S. Gaisina, and A. N. Sabitova. "Biocompatible cryogels: preparation and application." *Bulletin of the Karaganda University Chemistry Series*, 2021, 103(3), 4-20
1179. Khojastehfar, Ali, and Soleiman Mahjoub. "Application of Nanocellulose Derivatives as Drug Carriers; A Novel Approach in Drug Delivery." *Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents)* 21, no. 6 (2021): 692-702.
1180. Takeshita, Satoru, Shanyu Zhao, Wim J. Malfait, and Matthias M. Koebel. "Chemie der Chitosan-Aerogele: Lenkung der dreidimensionalen Poren für maßgeschneiderte Anwendungen." *Angewandte Chemie* 133, no. 18 (2021): 9913-9938.
1181. Hamed H, Moradi H, Hudson SM, Tonelli AE, King MW. Chitosan based bioadhesives for biomedical applications: A review. *Carbohydrate Polymers*. 2022;119100.
1182. Du, C., Huang, W. Progress and prospects of nanocomposite hydrogels in bone tissue engineering, *Nanocomposites*, 2022, 8 (1), 102-124.
1183. Liu C, Wang D, Wang Z, Zhang H, Chen L, Wei Z. Sulfolane Crystal Templating: A One-Step and Tunable Polarity Approach for Self-Assembled Super-Macroporous Hydrophobic Monoliths. *ACS Applied Materials & Interfaces*. 2022, 14(40):45810-21.
1184. Hamed H. Design a Chitosan-based Thermoresponsive Bioadhesive Polymer Composite for Wound Dressing Application., PhD Thesis, Raleigh, North Carolina, 2022
1185. Гайсина Б, Оразжанова А, Мусабаева Б, Қазбекова А, Сабитова А. Хитозан мен натрий-карбоксиметилцеллюлоза негізінде кригель алу және қасиеттерін анықтау. *Известия НАН РК. Серия химических наук*. 2022, 15(1):86-93.
1186. Noor, A. and Khan, S.A., Agricultural Wastes as Renewable Biomass to Remediate Water Pollution. *Sustainability*, 2023, 15(5), p.4246.
1187. Dubashynskaya, N.V., Petrova, V.A., Sgibnev, A.V., Elovkhovskiy, V.Y., Cherkasova, Y.I. and Skorik, Y.A., Carrageenan/Chitin Nanowhiskers Cryogels for Vaginal Delivery of Metronidazole. *Polymers*, 2023, 15(10), p.2362.
1188. Naeem, A., Yu, C., Wang, X., Peng, M., Liu, Y. and Liu, Y., Hydroxyethyl Cellulose-Based Hydrogels as Controlled Release Carriers for Amorphous Solid Dispersion of Bioactive Components of Radix Paeonia Alba. *Molecules*, 2023, 28(21), p.7320.
1189. Babanejad, N., Mfofo, K., Thumma, A., Omid, Y. and Omidian, H., Advances in cryostructures and their applications in biomedical and pharmaceutical products. *Polymer Bulletin*, 2023, pp.1-48.

1190. Omidian, H., Dey Chowdhury, S. and Babanejad, N., Cryogels: Advancing Biomaterials for Transformative Biomedical Applications. *Pharmaceutics*, 2023, 15(7), p.1836.
1191. Zhu, Y., Chen, J., Liu, H. and Zhang, W., 2023. Photo-cross-linked Hydrogels for Cartilage and Osteochondral Repair. *ACS Biomaterials Science & Engineering*, 9(12), pp.6567-6585.
- Ivanova, J, Kabaivanova, L, Petrov, P, Yankova, S. Optimization strategies for improved growth, polysaccharide production and storage of the red microalga *Rhodella reticulata*. *Bulgarian Chemical Communications*, 2015, 47, 1
1192. Gaignard, C., Gargouch, N., Dubessay, P., (...), Abdelkafi, S., Michaud, P. New horizons in culture and valorization of red microalgae, *Biotechnology Advances*, 2019, 37(1), 193-222
1193. Василева, И. and Гигова, Л., Микроводораслите–перспективни възобновяеми биологични ресурси. *Journal of Mountain Agriculture on the Balkans (JMAB)*, 2023, 26(2).
- G. Satchanska, Y. Topalova, R. Dimkov, V. Groudeva, P. Petrov, Ch. Tsvetanov Phenol degradation by environmental bacteria entrapped in cryogels *Biotechnology & Biotechnological Equipment* 2015, 29 (3) 514-521.
1194. Jiang, Yu; Shang, Yu; Yang, Kai; et al. Phenol degradation by halophilic fungal isolate JS4 and evaluation of its tolerance of heavy metals. *Applied Microbiology and Biotechnology*, 100 (2016) 1883-1890
1195. PM Fernández, MM Martorell, MG Blaser, LAM Ruberto, L de Figuero, WP Mac Cormack , Phenol degradation and heavy metal tolerance of Antarctic yeasts, *Extremophiles*, 2017, 21(3), 445–457
1196. S Hu, H Hu, W Li, Y Ke, M Li, Y Zhao, Enhanced sulfamethoxazole degradation in soil by immobilized sulfamethoxazole-degrading microbes on bagasse, *RSC Advances*, 2017, 7, 55240-55248
1197. Y Jiang, T Deng, Y Shang, K Yang, H Wang, Biodegradation of phenol by entrapped cell of *Debaryomyces* sp. with nano-Fe<sub>3</sub>O<sub>4</sub> under hypersaline conditions, *International Biodeterioration & Biodegradation*, 2017, 123, 37-45.
1198. AK Al-Jwaid, D Berillo, IN Savina, AB Cundy, J. L. Caplin, One-step formation of three-dimensional macroporous bacterial sponges as a novel approach for the preparation of bioreactors for bioremediation and green treatment of water, *RSC Advances*, 2018, 8, 30813-30824
1199. Berillo, D.A., Caplin, J.L., Cundy, A.B., Savina, I.N. A cryogel-based bioreactor for water treatment applications, *Water Research* 2019, 153, 324-334
1200. E. K. Vasileva, T. I. Parvanova-Mancheva, V. N. Beschkov, Classical and new aspects in degradation of aromatic xenobiotics, *Ecological Engineering and Environment Protection*, 2019, 1, 37-53
1201. Martorell M.M., Ruberto L.A.M., de Castellanos L.I.F., Cormack W.P.M. (2019) Bioremediation Abilities of Antarctic Fungi. In: Tiquia-Arashiro S., Grube M. (eds) *Fungi in Extreme Environments: Ecological Role and Biotechnological Significance*. Springer, Cham, pp 517-534
1202. S. A. Kolobova, D. Z. Nazmutdinov, N. I. Petukhova, L. Kh. Khalimova, Bacterial cellulose – promising carrier for immobilization of phenol-destructuring microorganisms, *Башкирский химический журнал*. 2019. Том 26. No 1, 105-111
1203. Duraisamy, P., Sekar, J., Arunkumar, A.D., Ramalingam, P.V. Kinetics of Phenol Biodegradation by Heavy Metal Tolerant *Rhizobacteria Glutamicibacter nicotianae* MSSRFPD35 From Distillery Effluent Contaminated Soils *Frontiers in Microbiology*, 11, art. no. 1573(2020)
1204. T. Parvanova-Mancheva, E. Vasileva, V. Beschkov, M. Gerginova, M. Stoilova-Disheva, Z. Alexieva, Biodegradation potential of *pseudomonas putida* to phenol compared to *xanthobacter autotrophicus* GJ10 and *pseudomonas denitrificans* strains, *Journal of Chemical Technology and Metallurgy*, 2020, 55(1) 23-27
1205. Berillo, D., Al-Jwaid, A., Caplin, J., Polymeric materials used for immobilisation of bacteria for the bioremediation of contaminants in water, *Polymers*, 2021, 13(7), 1073
1206. Liu, Xueping, Ping Xue, Feng Jia, Dongya Qiu, Keren Shi, and Weiwei Zhang. "Tailoring polymeric composite gel beads-encapsulated microorganism for efficient degradation of phenolic compounds." *Chinese Journal of Chemical Engineering* 32 (2021): 301-306.
1207. Li, Rui, Bing Wang, Aiping Niu, Ning Cheng, Miao Chen, Xueyang Zhang, Zebin Yu, and Shengsen Wang. "Application of biochar immobilized microorganisms for pollutants removal from wastewater: A review." *Science of The Total Environment* 2022, 155563.
1208. Escobedo-Morales, Genesis, Javier Ulises Hernández-Beltrán, Nagamani Balagurusamy, Ayerim Yedid Hernández-Almanza, and Miriam Paulina Luévanos-Escareño. "Immobilized enzymes and cell systems: an approach to the removal of phenol and the challenges to incorporate nanoparticle-based technology." *World Journal of Microbiology and Biotechnology* 2022, 38, no. 3, 1-20.
1209. Girase, A.G., Evaluation and Improvements of Cleaning Methodologies Practiced in the Firefighting Community, Doctoral dissertation, Raleigh, North Carolina, 2022

1210. Bhatt, P., Bhatt, K., Huang, Y., Li, J., Wu, S. and Chen, S., Biofilm formation in xenobiotic-degrading microorganisms. *Critical Reviews in Biotechnology*, 2023, 43(8), pp.1129-1149.
1211. Behrendt, F., Deng, Y., Pretzel, D., Stumpf, S., Fritz, N., Gottschaldt, M., Pohnert, G. and Schubert, U.S., Dimethylsulfoniopropionate decorated cryogels as synthetic spatially structured habitats of marine bacterial communities. *Materials Horizons. Mater. Horiz.*, 2023,10, 2412-2416
1212. Khushboo, Thakur, M., Yadav, V., Kumar, Y., Pramanik, A. and Dubey, K.K., 2024. How to deal with xenobiotic compounds through environment friendly approach?. *Critical Reviews in Biotechnology*, pp.1-20.
- Yoncheva K., Kamenova K., Perperieva T., Hadjimitova V., Donchev P, Kaloyanov K., Konstantinov S., Kondeva-Burdina M., Tzankova V., Petrov P., Cationic triblock copolymer micelles enhance antioxidant activity, intracellular uptake and cytotoxicity of curcumin, *International Journal of Pharmaceutics*, 2015, 490(1–2) 298–307
1213. K Mahmood, KM Zia, M Zuber, M Salman, MN Anjum, Recent developments in curcumin and curcumin based polymeric materials for biomedical applications: A review, *International Journal of Biological Macromolecules*, 2015, 81, 877–890
1214. Y Zhang, L Shen, K Zhang, T Guo, J Zhao, N Li, N Feng, Enhanced antioxidation via encapsulation of isooctyl p-methoxycinnamate with sodium deoxycholate-mediated liposome endocytosis, *International Journal of Pharmaceutics*, 2015, 496(2), 392–400.
1215. M Xie, D Fan, Z Zhao, Z Li, G Li, Y Chen, X He, A. Chen, J. Li, X. Lin, M. Zhi, Y. Li, P. Lanc, Nano-curcumin prepared via supercritical: Improved anti-bacterial, anti-oxidant and anti-cancer efficacy, *International Journal of Pharmaceutics*, 2015, 496(2) 732–740.
1216. K Wan, L Sun, X Hu, Z Yan, Y Zhang, X Zhang, J.Zhang. Novel nanoemulsion based lipid nanosystems for favorable in vitro and in vivo characteristics of curcumin, *International Journal of Pharmaceutics*, 504 (2016) 80–88.
1217. P Portincasa, L. Bonfrate, M Lia Scribano, A Kohn, N Caporaso, D Festi, M C Campanale, T Di Rienzo, M Guarino, M Taddia, M V Fogli, M Grimaldi, A Gasbarrini, Curcumin and Fennel Essential Oil Improve Symptoms and Quality of Life in Patients with Irritable Bowel Syndrom. *J Gastrointestin Liver Dis*, 2016, 25 (2), 151
1218. YO Jeon, JS Lee, HG Lee, Improving Solubility, Stability, and Cellular Uptake of Resveratrol by Nanoencapsulation with Chitosan and  $\gamma$ -Poly (Glutamic Acid), *Colloids and Surfaces B: Biointerfaces*, 2016, 147(1), 224-233
1219. BR Shah, C Zhang, Y Li, B Li, Bioaccessibility and antioxidant activity of curcumin after encapsulated by nano and Pickering emulsion based on chitosan-tripolyphosphate nanoparticles, *Food Research International*, 89(1), 2016, 399–407
1220. QN Choudhry, MJ Kim, TG Kim, JH Pan, JH Kim, SJ Park, JH Lee, YJ Kim, Saponin-Based Nanoemulsification Improves the Antioxidant Properties of Vitamin A and E in AML-12 Cells, *Int. J. Mol. Sci.* 2016, 17(9), 1406
1221. LL Deng, M Taxipalati, F Que, H Zhang, Physical characterization and antioxidant activity of thymol solubilized Tween 80 micelles, *Scientific Reports*, 2016, 6, Article number: 38160
1222. F Ye, D Lei, S Wang, G Zhao, Polymeric micelles of octenylsuccinated corn dextrin as vehicles to solubilize curcumin, *LWT-Food Science and Technology*, 75, 2017, 187–194
1223. RI Mahran, MM Hagra, D Sun, DE Brenner, Bringing Curcumin to the Clinic in Cancer Prevention: a Review of Strategies to Enhance Bioavailability and Efficacy, *The AAPS journal*, 2017, 19, 54–81
1224. S Okonogi, P Anantaworasakul, Encapsulation of Sesbania grandiflora extract in polymeric micelles to enhance its solubility, stability, and antibacterial activity, *Journal of Microencapsulation*, 2017, 34, 73-81
1225. TK Meleshko, AS Ivanova, AV Kashina, I. V. Ivanov, T. N. Nekrasova, N. V. Zakharova, A. P. Filippov, A. V. Yakimansky, Synthesis of Graft Copolyimides with Poly(N,N-dimethylamino-2-ethyl methacrylate) Side Chains and Hybrid Nanocomposites with Silver Nanoparticles, *Polym. Sci. Ser. B* 2017, 59, 674-688
1226. TONG Xiao-dong, FAN Yong-chun, YAN Wei. Effect of curcumin-micelles adopting vitamin E-TPGS and Solutol HS 15 as carriers on solubility and oral bioavailability of curcumin[J]. *Chinese Traditional and Herbal Drugs*, 2017, 48(5): 902-906
1227. G Mocanu, M Nichifor, L Sacarescu, Dextran based polymeric micelles as carriers for delivery of hydrophobic drugs, *Current drug delivery*, 2017, 14, 406-415
1228. M L González Rodríguez, A M Fernández Romero, A M Fernández Romero, A M. Rabasco Álvarez, Towards the antioxidant therapy in Osteoarthritis: Contribution of nanotechnology, *Journal of Drug Delivery Science and Technology*, 2017, 42, 94-106
1229. N Xia, T Liu, Q Wang, Q Xia, X Bian, In vitro evaluation of  $\alpha$ -lipoic acid-loaded lipid nanocapsules for topical delivery, *Journal of microencapsulation*, 2017, 34:6, 571-581
1230. Q Zhang, N E Polyakov, YS Chistyachenko, M V Khvostov, T S Frolova, T G Tolstikova, A V Dushkin, W Su, Preparation of curcumin self-micelle solid dispersion with enhanced bioavailability and cytotoxic activity by mechanochemistry, *Drug Delivery*, 2018, 25:1, 198-209



1231. X Guo, W Li, H Wang, YY Fan, H Wang, X Gao, Y. Y. Fan, H. Wanga, X. Gaoa, B. Niuab, X. Gong, Preparation, characterization, release and antioxidant activity of curcumin-loaded amorphous calcium phosphate nanoparticles, *Journal of Non-Crystalline Solids*, 2018, 500, 317-325
1232. Fang, D., Pi, M., Pan, Z., Tan, H., Li, Z. Stable, Bioresponsive, and Macrophage-Evading Polyurethane Micelles Containing an Anionic Tripeptide Chain Extender, *ACS Omega*, 2019, 4(15), 16551-16563
1233. Li, X., Chen, Y., Li, S., (...), Xie, B., Sun, Z., Oligomer Procyanidins from Lotus Seedpod Regulate Lipid Homeostasis Partially by Modifying Fat Emulsification and Digestion, *Journal of Agricultural and Food Chemistry*, 2019, 67(16), 4524-4534
1234. Loan Khanh, L., Thanh Truc, N., Tan Dat, N., (...), Thi Thanh Loan, T., Thi Hiep, N. Gelatin-stabilized composites of silver nanoparticles and curcumin: characterization, antibacterial and antioxidant study, *Science and Technology of Advanced Materials*, 2019, 20(1), 276-290
1235. Pojero, F., Poma, P., Spanò, V., (...), Barraja, P., Notarbartolo, M. Targeting multiple myeloma with natural polyphenols, *European Journal of Medicinal Chemistry*, 2019, 180, 465-485
1236. Zhong, X.-C., Xu, W.-H., Wang, Z.-T., Xu, D.-H., Gao, J.-Q. Doxorubicin derivative loaded acetal-PEG-PCCL micelles for overcoming multidrug resistance in MCF-7/ADR cells, *Drug Development and Industrial Pharmacy*, 2019, 45(9), 1556-1564
1237. Nasery, M.M., Abadi, B., Poormoghadam, D., Zarrabi, A., Keyhanvar, P., Khanbabaei, H., Ashrafizadeh, M., Mohammadinejad, R., Tavakol, S., Sethi, G. Curcumin delivery mediated by bio-based nanoparticles: A review *Molecules*, 25 (3), art. no. 689(2020)
1238. Ghorbani, M., Zarei, M., Mahmoodzadeh, F., Ghorbani, M., Targeted delivery of methotrexate using a new PEGylated magnetic/gold nanoplatfrom covered with pH-responsive shell, *International Journal of Polymeric Materials and Polymeric Biomaterials*, 2021, 70(9), pp. 636-645
1239. Kriplani, Priyanka, and Kumar Guarve. "Physicochemical and Biological Aspects of Curcumin: A Review." *The Natural Products Journal* 11, no. 3 (2021): 318-343.
1240. Na, Qiu, Du Xiyou, Jianbo Ji, and Guangxi Zhai. "A review of stimuli-responsive polymeric micelles for tumor-targeted delivery of curcumin." *Drug Development and Industrial Pharmacy* 2021, 47(6), 839-856
1241. Santhamoorthy, M., Vy Phan, T.T., Ramkumar, V., Raorane, C.J., Thirupathi, K., Kim, S.-C. Thermo-Sensitive Poly (N-isopropylacrylamide-co-polyacrylamide) Hydrogel for pH-Responsive Therapeutic Delivery, *Polymers*, 2022, 14 (19), art. no. 4128, .
1242. Rani, V., Venkatesan, J., Prabhu, A., Liposomes- A promising strategy for drug delivery in anticancer applications, *Journal of Drug Delivery Science and Technology*, 2022, 76, art. no. 103739.
1243. Mielañczyk, A., Kupczak, M., Klymenko, O., Mielañczyk, Ł., Arabasz, S., Madej, K., Neugebauer, D. The structure-self-assembly relationship in PDMAEMA/polyester miktoarm stars, *Polymer Chemistry*, 2022, 13 (33), pp. 4763-4775.
1244. Poddar, D., Singh, A., Bansal, S., Thakur, S., Jain, P., Direct synthesis of Poly(ε-Caprolactone)-block-poly (glycidyl methacrylate) copolymer and its usage as a potential nano micelles carrier for hydrophobic drugs, *Journal of the Indian Chemical Society*, 2022, 99 (7), art. no. 100537.
1245. Farhoudi, L., Kesharwani, P., Majeed, M., Johnston, T.P., Sahebkar, A., Polymeric nanomicelles of curcumin: Potential applications in cancer, *International Journal of Pharmaceutics*, 2022, 617, art. no. 121622.
1246. Kalinova, R., Dimitrov, I., Triblock Copolymer Micelles with Tunable Surface Charge as Drug Nanocarriers: Synthesis and Physico-Chemical Characterization, *Nanomaterials*, 2022, 12 (3), art. no. 434.
1247. Kar, A., Rout, S.R., Singh, V., Greish, K., Sahebkar, A., Abourehab, M.A.S., Kesharwani, P., Dandela, R., Triblock polymeric micelles as an emerging nanocarrier for drug delivery, *Polymeric Micelles for Drug Delivery*, 2022, 561-590.
1248. Singh, M., Upadhyay, S.K., Gupta, S., Thakur, V. and Sharma, A.K., Effective Management of Aedes aegypti Linn.(Diptera: Culicidae) Population through Conventional to Genetic Control and Nanotechnology Approaches: A Short Review, *Journal of Mosquito Research* 2022; 9(2): 95-99
1249. Li, Z., Hu, W., Dong, J., Azi, F., Xu, X., Tu, C., Tang, S. and Dong, M., The use of bacterial cellulose from kombucha to produce curcumin loaded Pickering emulsion with improved stability and antioxidant properties. *Food Science and Human Wellness*, 2023, 12(2), pp.669-679.
1250. Zhu, C., Zhang, Z., Wen, Y., Song, X., Zhu, J., Yao, Y. and Li, J., Cationic micelles as nanocarriers for enhancing intra-cartilage drug penetration and retention. *Journal of Materials Chemistry B*, 2023, 11(8), pp.1670-1683.

1251. Ma, L., Gao, H., Cheng, C., Cao, M., Zou, L. and Liu, W., Fabrication of emulsions using high loaded curcumin nanosuspension stabilizers: Enhancement of antioxidant activity and concentration of curcumin in micelles. *Journal of Functional Foods*, 2023, 110, p.105858.
1252. Picos-Corrales, L.A., Licea-Claverie, A., Sarmiento-Sánchez, J.I., Ruelas-Leyva, J.P., Osuna-Martínez, U. and García-Carrasco, M., Methods of nanoencapsulation of phytochemicals using organic platforms. In *Phytochemical Nanodelivery Systems as Potential Biopharmaceuticals 2023*, pp. 123-184. Elsevier.
1253. Jacob, S., Kather, F.S., Morsy, M.A., Boddu, S.H., Attimarad, M., Shah, J., Shinu, P. and Nair, A.B., 2024. Advances in Nanocarrier Systems for Overcoming Formulation Challenges of Curcumin: Current Insights. *Nanomaterials*, 14(8), p.672.
1254. Gad, H.A., Diab, A.M., Elsaied, B.E. and Tayel, A.A., 2024. Biopolymer-based formulations for curcumin delivery toward cancer management. In *Curcumin-Based Nanomedicines as Cancer Therapeutics* (pp. 309-338). Academic Press.
1255. Ma'arif, S., Peranginangin, J.M. and Herdwiani, W., 2024. PENGARUH ENKAPSULASI KURKUMIN TERHADAP AKTIVITAS ANTIOKSIDAN: REVIEW: THE EFFECT OF CURCUMIN ENCAPSULATION ON ANTIOXIDANT ACTIVITIES. *Medical Sains: Jurnal Ilmiah Kefarmasian*, 9(1), pp.141-154.
- [KYoncheva, M Kondeva-Burdina, V Tzankova, P Petrov, M Laouanid, S. Halacheva, Curcumin delivery from poly \(acrylic acid-co-methyl methacrylate\) hollow microparticles prevents dopamine-induced toxicity in rat brain synaptosomes, International Journal of Pharmaceutics 2015, 486\(1-2\), 259-267](#)
1256. K Mahmood, KM Zia, M Zuber, M Salman, MN Anjum, Recent developments in curcumin and curcumin based polymeric materials for biomedical applications: A review, *International Journal of Biological Macromolecules*, 2015, 81, 877-890
1257. H Chen, D Liu, Z Guo, Endogenous Stimuli-responsive Nanocarriers for Drug Delivery, *Chemistry Letters*, 2016 Article ID: 151176
1258. M Gagliardi, C Borri Polymer nanoparticles as smart carriers for the enhanced release of therapeutic agents to the CNS, *Current Pharmaceutical Design*, 2017, 23( 3) 393-410(18)
1259. S Zhan, S Li, Q Zhao, W Wang, J Wang, Measurement and Correlation of Curcumin Solubility in Supercritical Carbon Dioxide, *J. Chem. Eng. Data*, 2017, 62 (4), 1257-1263
1260. Stankowska D, Krishnamoorthy V, Ellis D, Krishnamoorthy R, Neuroprotective effects of curcumin on endothelin-1 mediated cell death in hippocampal neurons. *Nutritional Neuroscience: An International Journal on Nutrition, Diet and Nervous System*, 2017, 20(5), 273-283.
1261. Alalwan, Hasanain Kahtan Abdulkhalik (2018) Combining nanofabrication with natural antimicrobials to control denture plaque. PhD thesis, University of Glasgow.
1262. Shah, M.R., Ullah, S., Imran, M., Nanocarriers for cancer diagnosis and targeted chemotherapy: A volume in micro and nano technologies (Book), *Nanocarriers for Cancer Diagnosis and Targeted Chemotherapy*, 2019, pp. 1-310
1263. Uddin, M.A., Yu, H., Wang, L., Chen, X., Ni, Z., Multiple-stimuli-responsiveness and conformational inversion of smart supramolecular nanoparticles assembled from spin labeled amphiphilic random copolymers, *Journal of Colloid and Interface Science*, 2021, 585, pp. 237-249
1264. Kriplani, Priyanka, and Kumar Guarve. "Physicochemical and Biological Aspects of Curcumin: A Review." *The Natural Products Journal* 11, no. 3 (2021): 318-343.
1265. Chelimela, N., Alvala, R.R. and Satla, S.R., 2024. Curcumin-Bioavailability Enhancement by Prodrug Approach and Novel Formulations. *Chemistry & Biodiversity*, p.e202302030.
- [Djurdjic B, Dimchevska S, Geskovski N, Petrusevska M, Gancheva V, Georgiev G, Petrov P, Goracinova K, Synthesis and self-assembly of amphiphilic poly \(acrylicacid\)-poly \(ε-caprolactone\)-poly \(acrylicacid\) block copolymer as novel carrier for 7-ethyl-10-hydroxy camptothecin Journal of biomaterials applications, 2015, 29: 867-881,](#)
1266. A Topete, S Barbosa, P Taboada, Intelligent micellar polymeric nanocarriers for therapeutics and diagnosis, *Journal of Applied Polymer Science*, 2015, 132 (41), 42650
1267. K Ulbrich, K Holá, V Šubr, A Bakandritsos, J Tuček, R Zbořil\*, Targeted Drug Delivery with Polymers and Magnetic Nanoparticles: Covalent and Noncovalent Approaches, Release Control, and Clinical Studies, *Chem. Rev.* , 2016, 116 (9), pp. 5338-5431
1268. Dan Mogoșanu, G., Mihai Grumezescu, A., Everard Bejenaru, L., Bejenaru, C., Natural and synthetic polymers for drug delivery and targeting ( Book Chapter) In *Nanobiomaterials in Drug Delivery: Applications of Nanobiomaterials*, Ed. Grumezescu, A.M., 2016, pp. 229-284
1269. Cao, Y., Silverman, L., Lu, C., Wulff, J.E., Moffitt, M.G. "Microfluidic Manufacturing of SN-38-Loaded Polymer Nanoparticles with Shear Processing Control of Drug Delivery Properties"*Molecular Pharmaceutics*, 2019, 16(1), 96-107

1270. de Freitas, A.G.O., Muraro, P.I.R., Bortolotto, T., Villar, M., Giacomelli, C. "Facile one-pot synthesis and solution behavior of poly(acrylic acid)-block-polycaprolactone copolymers", *Journal of Molecular Liquids* 2019, 273, 99-106
  1271. Jensen, D., Cao, Y., Lu, C., Wulff, J.E., Moffitt, M.G. "Microfluidic encapsulation of SN-38 in block copolymer nanoparticles: effect of hydrophobic block composition on loading and release properties". *Canadian Journal of Chemistry*, 2019, 97(5), 337-343
  1272. Salmanpour, M., Yousefi, G., Mohammadi-Samani, S., Abedanzadeh, M., Tamaddon, A.M. Hydrolytic stabilization of irinotecan active metabolite (SN38) against physiologic pH through self-assembly of conjugated poly (2-oxazoline) - poly (L-amino acid) block copolymer: A-synthesis and physicochemical characterization *Journal of Drug Delivery Science and Technology*, 2020, 60, art. no. 101933
  1273. Ghosh, B., Biswas, S., Polymeric micelles in cancer therapy: State of the art, *Journal of Controlled Release*, 2021, 332, pp. 127-147
  1274. Ram, M., Babaei, M., Zolfaghari, R., Abnous, K., Taghdisi, S.M., Ramezani, M. and Alibolandi, M., 2021. Synthesis of a therapeutic amphiphilic copolymer of SN38 via RAFT polymerization and its self-assembly to peptomicelles for fighting against colon adenocarcinoma. *ACS Applied Polymer Materials*, 3(12), pp.6252-6264.
  1275. Huang, Lin, Sajid Asghar, Ting Zhu, Panting Ye, Ziyi Hu, Zhipeng Chen, and Yanyu Xiao. "Advances in chlorin-based photodynamic therapy with nanoparticle delivery system for cancer treatment." *Expert opinion on drug delivery* 18, no. 10 (2021): 1473-1500.
  1276. Silverman, L., Bhatti, G., Wulff, J.E., Moffitt, M.G. Improvements in Drug-Delivery Properties by Co-Encapsulating Curcumin in SN-38-Loaded Anticancer Polymeric Nanoparticles, *Molecular Pharmaceutics*, 2022, 19 (6), 1866-1881.
  1277. Qi, Q.R., Tian, H., Yue, B.S., Zhai, B.T. and Zhao, F., 2024. Research Progress of SN38 Drug Delivery System in Cancer Treatment. *International Journal of Nanomedicine*, pp.945-964.
- [Yoncheva, K., Petrov, P., Pencheva, I., & Konstantinov, S. Triblock polymeric micelles as carriers for anti-inflammatory drug delivery. \*Journal of Microencapsulation\*, 2015, 32\(3\), 224-230.](#)
1278. Thomas, S., Grohens, Y., Kalarikkal, N., Oluwafemi, O.S. and Praveen, K.M. eds., 2018. *Nanotechnology-driven engineered materials: new insights*. CRC Press.
  1279. Haofan, L.I.U., Xin, L.I. and Liandong, H.U., 2019. Synthesis of hyaluronic acid-dextran block polymers containing hydrazone. *Journal of Hebei University (Natural Science Edition)*, 39(5), p.484.
  1280. Liu, H.C., Kijanka, P. and Urban, M.W., 2020. Acoustic radiation force optical coherence elastography for evaluating mechanical properties of soft condensed matters and its biological applications. *Journal of biophotonics*, 13(3), p.e201960134.
  1281. Yang, S.D., Cui, B.W. and Song, J.C., 2020. The polymer micelles and application in tumor targeted therapy system. *TMR Cancer*, 3(6), pp.257-264.
  1282. Virmani, T., Kumar, G., Virmani, R., Sharma, A. and Pathak, K., 2022. Nanocarrier-based approaches to combat chronic obstructive pulmonary disease. *Nanomedicine*, 17(24), pp.1833-1854.
  1283. Verma, N., Kanojia, N., Puri, V., Sharma, A., Thapa, K., Rani, L., Gupta, M., Chellappan, D.K. and Dua, K., 2023. Advanced nanoparticulate system for the treatment of antiinflammatory diseases. In *Recent Developments in Anti-Inflammatory Therapy* (pp. 163-169). Academic Press.
- [Petrov P, Mokreva P, Kostov I, Uzunova V, Tzoneva R, Novel electrically conducting 2-hydroxyethylcellulose/polyaniline nanocomposite cryogels: Synthesis and application in tissue engineering, \*Carbohydrate Polymers\* 2016, 140, 349-355,](#)
1284. WJ Ennis, C Lee, K Gellada, TF Corbiere, F Thomas, TJ Koh, *Advanced Technologies to Improve Wound Healing: Electrical Stimulation, Vibration Therapy, and Ultrasound – What Is the Evidence?*, *Plastic & Reconstructive Surgery*: 2016, 138(3S), 94S–104S
  1285. M Hatamzadeh, PN Moghadam, YB Khosrowshahi, B Massoumi, M Jaymand, *Electrically conductive nanofibrous scaffolds based on poly (ethylene glycol) s-modified polyaniline and poly (ε-caprolactone) for tissue engineering applications*, *RSC Advances*, 2016, 6, 105371-105386
  1286. Z Allahyari, N Haghighipour, F Moztarzadeh, L Ghazizadeh, M Hamrang, M A Shokrgozar, S Gholizadeh, *Optimization of electrical stimulation parameters for MG-63 cell proliferation on chitosan/functionalized multiwalled carbon nanotube films*, *RSC Adv.*, 2016,6, 109902-109915
  1287. J Stejskal, *Conducting polymer hydrogels*, *Chemical Papers*, 2016, pp 1-23
  1288. M Hatamzadeh, P Najafi-Moghadam, Y Beygi-Khosrowshahi, B Massoumi, M Jaymand, *Electrically conductive nanofibrous scaffolds based on poly(ethylene glycol)s-modified polyaniline and poly(3-caprolactone) for tissue engineering applications*, *RSC Adv.*, 2016,6,105371

1289. J Stejskal, P Bober, M Trchová, A Kovalcik, J Hodan, J Hromádková, J Prokeš, Polyaniline Cryogels Supported with Poly (vinyl alcohol): Soft and Conducting, *Macromolecules*, 2017
1290. FVA Dutra, BC Pires, TA Nascimento, V Mano, K B Borges, Polyaniline-deposited cellulose fiber composite prepared via in situ polymerization: enhancing adsorption properties for removal of meloxicam from aqueous media, *RSC Advances*, 2017, 7, 12639-12649
1291. Коновалова, Мария Владимировна, Получение и исследование противоспаечных барьерных материалов на основе биополимеров пектина и хитозана, ДИССЕРТАЦИЯ на соискание ученой степени кандидата биологических наук, Российской академии наук, Институт биоинженерии, Москва, 2017
1292. M Shahadat, M Z Khan, P F Rupani, A Embrandiri, S, Sultana, S Z Ahammad, S.Wazed Ali, T R Sreekrishnan, A critical review on the prospect of polyaniline-grafted biodegradable nanocomposite, *Advances in Colloid and Interface Science*, 2017, 249, 2-16
1293. P Zarrintaj, B Bakhshandeh, I Rezaeian, B Heshmatian, M R Ganjali, A Novel Electroactive Agarose-Aniline Pentamer Platform as a Potential Candidate for Neural Tissue Engineering, *Scientific reports*, 2017, 7, Article number: 17187
1294. J Stejskal, Conducting polymer hydrogels, *Chemical Papers*, 2017, 71, 269–291
1295. C Ning, Z Zhou, G Tan, Y Zhu, C Mao, Electroactive polymers for tissue regeneration: Developments and perspectives, *Progress in polymer science*, 2018, 81, 144-162
1296. G-H Wang, L-M Zhang, Electroactive polyaniline/silica hybrid gels: Controllable sol-gel transition adjusted by chitosan derivatives, *Carbohydrate Polymers* 2018, 202, 523-529
1297. KA Milakin, M Trchová, U Acharya, J Hodan, J Hromádková, J Pfleger, B.A. Zasońska, J. Stejskal, P. Bobera, Conducting composite cryogels based on poly (aniline-co-p-phenylenediamine) supported by poly (vinyl alcohol), *Synthetic Metals*, 2018, 246, 144-149
1298. Lalegül-Ülker Ö., Elçin A.E., Elçin Y.M. (2018) Intrinsically Conductive Polymer Nanocomposites for Cellular Applications. In: Chun H., Park C., Kwon I., Khang G. (eds) *Cutting-Edge Enabling Technologies for Regenerative Medicine. Advances in Experimental Medicine and Biology*, vol 1078. Springer, Singapore
1299. M Zhai, F Ma, J Li, B Wan, N Yu, Preparation and properties of cryogel based on poly (hydroxypropyl methacrylate), *Journal of Biomaterials Science Polymer Edition*, 2018, 29(12), 1401-1425
1300. M. Shahadat, S. Z. Ahammad, S. A. Wazed, S. Ismail, Chapter 10: Synthesis of Polyaniline-Based Nanocomposite Materials and Their Biomedical Applications In *Electrically Conductive Polymer and Polymer Composites: From Synthesis to Biomedical Applications*, Eds. A. Khan, M. Jawaid, A. Aslam, P. Khan, A. M. Asiri, John Wiley & Sons, May 29, 2018
1301. Niemczyk, B., Sajkiewicz, P., Kolbuk, D., Injectable hydrogels as novel materials for central nervous system regeneration, *Journal of Neural Engineering*, 2018, 15(5), 051002
1302. P Humpolíček, KA Radaskiewicz, Z Čapáková, J Pacherník, P Bober, V Kašpárková, P Rejmontová, M Lehocký, P Ponížil, J Stejskal, Polyaniline cryogels: Biocompatibility of novel conducting macroporous material, *Scientific reports*, 2018, 8, Article number: 135
1303. SP Ansari, A Anis, 18: Conducting polymer hydrogels In *Polymeric Gels, Polymeric Gels: Characterization, Properties and Biomedical Applications* Woodhead Publishing Series in Biomaterials 2018, Pages 467-486, A volume in Woodhead Publishing Series in Biomaterials, Elsevier
1304. SS Suner, N Sahiner, Humic acid particle embedded super porous gum Arabic cryogel network for versatile use, *Polymers for Advanced Technologies*, 2018, 29, 151-159
1305. Y Arteshi, A Aghanejad, S Davaran, Y Omid, Biocompatible and electroconductive polyaniline-based biomaterials for electrical stimulation, *European Polymer Journal*, 2018, 108, 150-170
1306. Saylan, Y., Denizli, A. Supermacroporous composite cryogels in biomedical applications, *Gels*, 2019, 5(2), 20
1307. Vandghanooni, S., Eskandani, M. Electrically conductive biomaterials based on natural polysaccharides: Challenges and applications in tissue engineering, *International Journal of Biological Macromolecules*, 2019, 141, 636-662
1308. da Silva, L.P., Kundu, S.C., Reis, R.L., Correlo, V.M. Electric Phenomenon: A Disregarded Tool in Tissue Engineering and Regenerative Medicine Trends in Biotechnology, 38 (1), pp. 24-49(2020)
1309. Dubey, N., Kushwaha, C.S., Shukla, S.K. A review on electrically conducting polymer bionanocomposites for biomedical and other applications *International Journal of Polymeric Materials and Polymeric Biomaterials*, 69 (11), pp. 709-727(2020)
1310. Singh, P., Shukla, S.K. Advances in polyaniline-based nanocomposites *Journal of Materials Science*, 55 (4), pp. 1331-1365(2020)
1311. Singh, P., Kushwaha, C.S., Shukla, S.K., Modern development with green polymer nanocomposites: An overview (Book Chapter), *The ELSI Handbook of Nanotechnology: Risk, Safety, ELSI and Commercialization*, 2020, pp. 427-457

1312. Golba, S., Popczyk, M., Miga, S., Kubisztal, J., Balin, K., Impact of acidity profile on nascent polyaniline in the modified rapid mixing process—material electrical conductivity and morphological study, *Materials*, 2020, 13(22),5108, pp. 1-15
  1313. Liu, R., Zhang, S., Zhao, C., Liu, Y., Min, Y., Regulated Surface Morphology of Polyaniline/Poly(lactic Acid) Composite Nanofibers via Various Inorganic Acids Doping for Enhancing Biocompatibility in Tissue Engineering, *Nanoscale Research Letters*, 2021, 16(1),4
  1314. Shi, H., Dai, Z., Sheng, X., Yang, L., Luo, X., Conducting polymer hydrogels as a sustainable platform for advanced energy, biomedical and environmental applications, *Science of the Total Environment*, 2021, 786,147430
  1315. Savina, Irina N., Mohamed Zoughaib, and Abdulla A. Yergeshov. "Design and Assessment of Biodegradable Macroporous Cryogels as Advanced Tissue Engineering and Drug Carrying Materials." *Gels* 7, no. 3 (2021): 79.
  1316. Ting, Matthew S., Jadranka Travas-Sejdic, and Jenny Malmström. "Modulation of hydrogel stiffness by external stimuli: soft materials for mechanotransduction studies." *Journal of Materials Chemistry B* 9, no. 37 (2021): 7578-7596.
  1317. Rocha, Igor, Gabrielle Cerqueira, Felipe Varella Pentead, and Susana I. Córdoba de Torresi. "Electrical Stimulation and Conductive Polymers as a Powerful Toolbox for Tailoring Cell Behaviour in vitro." *Frontiers in Medical Technology* (2021): 33.
  1318. Erol, Kadir, Gönül Arslan Akveran, Kazım Köse, and Dursun Ali Köse. "Reducing lactose content of milk from livestock and humans via lactose imprinted poly (2-hydroxyethyl methacrylate-N-methacryloyl-L-aspartic acid) cryogels." *Journal of Polymer Engineering* 2021, 41(7), 585-596
  1319. Jiang, Tongmeng, Tao Yang, Qing Bao, Weilian Sun, Mingying Yang, and Chuanbin Mao. "Construction of tissue-customized hydrogels from cross-linkable materials for effective tissue regeneration." *Journal of Materials Chemistry B* 2021, 10 (25), 4741-4758..
  1320. Tyshkunova, I.V., Poshina, D.N., Skorik, Y.A., Cellulose Cryogels as Promising Materials for Biomedical Applications, *International Journal of Molecular Sciences*, 2022, 23 (4), art. no. 2037, .
  1321. Khaw, J.S., Xue, R., Cassidy, N.J., Cartmell, S.H., Electrical stimulation of titanium to promote stem cell orientation, elongation and osteogenesis, *Acta Biomaterialia*, 2022, 139, pp. 204-217.
  1322. Riaz, U., Singh, N., Rashnas Srmbikal, F. and Fatima, S., A review on synthesis and applications of polyaniline and polypyrrole hydrogels. *Polymer Bulletin*, 2023, 80(2), pp.1085-1116.
  1323. Bhandari, M., Kaur, D.P., Raj, S., Yadav, T., Abourehab, M.A. and Alam, M.S., Electrically Conducting Smart Biodegradable Polymers and Their Applications. In *Handbook of Biodegradable Materials 2023*, pp. 391-413. Cham: Springer International Publishing.
- [Tzankova V., Gorinova C., Kondeva-Burdina M., Simeonova R., Philipov S., Konstantinov S., Petrov P., Galabov D., Yoncheva K., In vitro and in vivo toxicity evaluation of cationic PDMAEMA-PCL-PDMAEMA micelles as a carrier of curcumin, \*Food and Chemical Toxicology\*, 2016, 97, 1-10](#)
1324. YN Chen, SL Hsu, MY Liao, YT Liu, CH Lai, J-F Chen, M-H T Nguyen, Y-H Su, S-T Chen, L-C Wu, Ameliorative Effect of Curcumin-Encapsulated Hyaluronic Acid-PLA Nanoparticles on Thioacetamide-Induced Murine Hepatic Fibrosis, *Int. J. Environ. Res. Public Health* 2017, 14(1), 11
  1325. S Stagnoli, MA Luna, CC Villa, F Alustiza, A Niebylski, F Moyano, N. M Correa, R. D Falcone, Unique catanionic vesicles as a potential "Nano-Taxi" for drug delivery systems. In vitro and in vivo biocompatibility evaluation, *RSC Advances*, 2017, 7, 5372-5380
  1326. Q Liu, X Ji, Z Ge, H Diao, X Chang, L Wang, Q Wu, Role of connexin 43 in cadmium-induced proliferation of human prostate epithelial cells, *Journal of Applied Toxicology*, 2017
  1327. B Yan, D Wang, S Dong, Z Cheng, L Na, M Sang, H Yang, Z Yang, S Zhang, Z Yan, Palmatine inhibits TRIF-dependent NF-κB pathway against inflammation induced by LPS in goat endometrial epithelial cells, *International Immunopharmacology*, 45, 2017, 194–200
  1328. TK Meleshko, AS Ivanova, AV Kashina, I. V. IvanovT. N. NekrasovaN. V. ZakharovaA. P. FilippovA. V. Yakimansky, Synthesis of Graft Copolyimides with Poly(N,N-dimethylamino-2-ethyl methacrylate) Side Chains and Hybrid Nanocomposites with Silver Nanoparticles, *Polym. Sci. Ser. B* 2017, 59, 674-688.
  1329. D W Malcolm, M A T Freeberg, Y Wang, K R Sims Jr., H A Awad, D S W Benoit, Diblock Copolymer Hydrophobicity Facilitates Efficient Gene Silencing and Cytocompatible Nanoparticle-Mediated siRNA Delivery to Musculoskeletal Cell Types, *Biomacromolecules*, 2017, 18 (11), pp 3753–3765
  1330. M Alibolandi, M Mohammadi, S M Taghdisi, K Abnous, M Ramezani, Synthesis and preparation of biodegradable hybrid dextran hydrogel incorporated with biodegradable curcumin nanomicelles for full thickness wound healing, *International Journal of Pharmaceutics*, 2017, 532(1), 466-477.

1331. L. Qiu, Q. Li, J. Huang, Q. Wu, K. Tu, Y. Wu, X. Zhang, J. Qian, R. Zhang, G. Li, M. Sun, L. Si, In vitro effect of mPEG2k -PCLx micelles on rat liver cytochrome P450 enzymes, *International Journal of Pharmaceutics*, 2018, 552(1-2), 99-110
1332. M Farshbaf, S Davaran, A Zarebkohan, N Annabi, A Akbarzadeh, Roya Salehi, Significant role of cationic polymers in drug delivery systems, *Artificial Cells, Nanomedicine, and Biotechnology*, 2018, 46(8), 1872-1891
1333. Zhao, Y., Guo, W., Lu, Q., Zhang, S., Preparation of poly(butylene succinate)-poly[2-(dimethylamino)ethyl methacrylate] copolymers and their applications as carriers for drug delivery, *Polymer International*, 2018, 67(6), pp. 708-716
1334. D. C. F. Soares, C. M. R. Oda, L. O. F. Monteiro, A. L. B. de Barros, M. L. Tebaldi, Responsive polymer conjugates for drug delivery applications: recent advances in bioconjugation methodologies, *Journal of Drug Targeting*, 2019, 27(4), pp. 355-366
1335. Li, Q., Sun, M., Li, G., Qiu, L., Huang, Z., Gong, J., Huang, J., Li, G., Si, L. "The sub-chronic impact of mPEG2k-PCLx polymeric nanocarriers on cytochrome P450 enzymes after intravenous administration in rats". *European Journal of Pharmaceutics and Biopharmaceutics*, 2019, 142, 101-113
1336. Pereira, M.P., de Gomes, M.G., Izoton, J.C., Nakama, K.A., dos Santos, R.B., Pinto Savall, A.S., Ramalho, J.B., Roman, S.S., Luchese, C., Cebin, F.W., Pinton, S., Haas, S.E. "Cationic and anionic unloaded polymeric nanocapsules: Toxicological evaluation in rats shows low toxicity". *Biomedicine and Pharmacotherapy*, 2019, 116, 109014
1337. de Gomes, M.G., Pando Pereira, M., Guerra Teixeira, F.E., Carvalho, F., Pinto Savall, A.S., Ferreira Bicca, D., Monteiro Fidelis, E., Botura, P.E., Weber Cebin, F., Pinton, S., Haas, S.E. Assessment of unloaded polymeric nanocapsules with different coatings in female rats: Influence on toxicological and behavioral parameters *Biomedicine and Pharmacotherapy*, 121, art. no. 109575(2020)
1338. Nakama, K.A., dos Santos, R.B., da Rosa Silva, C.E., Izoton, J.C., Savall, A.S.P., Gutierrez, M.E.Z., Roman, S.S., Luchese, C., Pinton, S., Haas, S.E. Establishment of analytical method for quantification of anti-inflammatory agents co-nanoencapsulated and its application to physicochemical development and characterization of lipid-core nanocapsules *Arabian Journal of Chemistry*, 13 (1), pp. 2456-2469(2020)
1339. Pereira-Silva, M., Jarak, I., Santos, A.C., Veiga, F., Figueiras, A. Micelleplex-based nucleic acid therapeutics: From targeted stimuli-responsiveness to nanotoxicity and regulation *European Journal of Pharmaceutical Sciences*, 153, art. no. 105461(2020)
1340. Yogaraj, V., Gowtham, G., Aksheda, C., Manikandan, R., Murugan, E., Arumugam, M. Quaternary ammonium poly (amidoamine) dendrimeric encapsulated nanocurcumin efficiently prevents cataract of rat pups through regulation of pro-inflammatory gene expression *Journal of Drug Delivery Science and Technology*, 58, art. no. 101785(2020)
1341. Raychaudhuri, R., Pandey, A., Hegde, A., Abdul Fayaz, S.M., Chellappan, D.K., Dua, K., Mutalik, S., Factors affecting the morphology of some organic and inorganic nanostructures for drug delivery: characterization, modifications, and toxicological perspectives, *Expert Opinion on Drug Delivery*, 2020, 17 (12), pp. 1737-1765
1342. Robla, S., Prasanna, M., Varela-Calviño, R., Grandjean, C., Csaba, N. A chitosan-based nanosystem as pneumococcal vaccine delivery platform, *Drug Delivery and Translational Research*, 2021, 11 (2), pp. 581-597.
- Grancharov, G, Gancheva, V, Kyulavska, M, Momekova, D, Momekov, G, Petrov, P. *Functional multilayered polymeric nanocarriers for delivery of mitochondrial targeted anticancer drug curcumin*. *Polymer*, 2016, 84, 27-37.
1343. AD Tehrani, M Parsamanesh, Preparation, characterization and drug delivery study of a novel nanobiopolymeric multidrug delivery system, *Materials Science and Engineering: C*, 2017 73, 516-524
1344. I Bonadies, L Maglione, V Ambrogi, JD Pacciez, L F. Zerbini, L F. Rocha e Silva, N S. Picanço, W P. Tadei, I Grafova, A Grafov, C Carfagna, Electrospun core/shell nanofibers as designed devices for efficient Artemisinin delivery, *European Polymer Journal*, 89, 2017, 211-220
1345. Y Xu, S Wang, HF Chan, Y Liu, H Li, C He, Z Li, M Chen, Triphenylphosphonium-modified Poly (ethylene glycol)-poly ( $\epsilon$ -caprolactone) Micelles for Mitochondria-targeted Gambogic Acid Delivery, *International Journal of Pharmaceutics*, 522(1-2), 2017, 21 - 33
1346. C Battistella, HA Klok, Controlling and Monitoring Intracellular Delivery of Anticancer Polymer Nanomedicines, *Macromolecular bioscience*, 2017, 17, 1700022
1347. Goracinova, K., Geskovski, N., Dimchevska, S., Li, X., Gref, R., Chapter 4, Multifunctional core-shell polymeric and hybrid nanoparticles as anticancer nanomedicines In *Design of Nanostructures for Theranostics Applications*, Ed. A. M. Grumezescu, Elsevier, 109-160, 2018
1348. Babić, M.M., Vukomanović, M., Stefanić, M., Nikodinović-Runić, J., Tomić, S.L., "Controlled Curcumin Release from Hydrogel Scaffold Platform Based on 2-Hydroxyethyl Methacrylate/Gelatin/Alginate/Iron(III) Oxide". *Macromolecular Chemistry and Physics* 221(20), art. no. 2000186, 2020
1349. Feng, Y.H., Zhang, X.P., Zhao, Z.Q., Guo, X.D., "Dissipative Particle Dynamics Aided Design of Drug Delivery Systems: A Review", *Molecular Pharmaceutics* 17(6), 1778-1799, 2020



1350. Sharma, D., Satapathy, B.K. Understanding release kinetics and collapse proof suture retention response of curcumin loaded electrospun mats based on aliphatic polyesters and their blends, *Journal of the Mechanical Behavior of Biomedical Materials*, 2021, 120, 104556
1351. Kalinova, R., Dimitrov, I., Triblock Copolymer Micelles with Tunable Surface Charge as Drug Nanocarriers: Synthesis and Physico-Chemical Characterization, *Nanomaterials*, 2022, 12 (3), art. no. 434.
1352. Chountoules, M., Selianitis, D., Pispas, S. and Pippa, N., Recent Advances on PEO-PCL Block and Graft Copolymers as Nanocarriers for Drug Delivery Applications. 2023, *Materials*, 16(6), p.2298.
1353. Gorachinov, F., Mraiche, F., Moustafa, D.A., Hishari, O., Ismail, Y., Joseph, J., Crcarevska, M.S., Dodov, M.G., Geskovski, N. and Goracinova, K., Nanotechnology—a robust tool for fighting the challenges of drug resistance in non-small cell lung cancer. *Beilstein Journal of Nanotechnology*, 2023, 14(1), pp.240-261.
- Karayianni, M., Gancheva, V., Pispas, S., Petrov, P., *Complex Formation Between Lysozyme and Stabilized Micelles with a Mixed Poly (ethylene oxide)/Poly (acrylic acid) Shell*. *The Journal of Physical Chemistry B*, 2016, 120(9), 2625 - 2637.
1354. EA Lysenko, RS Bilan, PS Chelushkin, Block-copolymer micelles with a interpolyelectrolyte crown, *Polymer Science, Series C*, 2017, 59, 35–48.
- Mountrichas, G., Petrov, P., Pispas, S., Rangelov, S. Chapter 2: Nano-sized Polymer Structures via Self-assembly and Co-assembly Approaches, In *Nano-size Polymers - Preparation, Properties, Applications*, Ed. Fakirov, S., Springer, 2016, pp. 19-48
1355. Ndizeye, Natacha, New Strategies for Preparing Polymers with Hierarchical Architectures, PhD Thesis, Linnaeus University, Faculty of Health and Life Sciences, Department of Chemistry and Biomedical Sciences. 2018
1356. Francesca Biondo. Design and Development of Novel Biocompatible Nanosystems for Drug Delivery. PhD thesis, Dipartimento di Scienze Pure e Applicate, University of Urbino, 2020.
1357. Pippa, N.; Skouras, A.; Naziris, N.; Biondo, F.; Tiboni, M.; Katifelis, H.; Gazouli, M.; Demetzos, C.; Casettari, L. Incorporation of PEGylated  $\delta$ -decalactone into lipid bilayers: thermodynamic study and chimeric liposomes development. *J. Liposome Research* 2020, 30 (3), 209-217.
1358. García, M.C., Stimuli-responsive self-assembled nanocarriers based on amphiphilic block copolymers for cancer therapy. In *Applications of Multifunctional Nanomaterials 2023*, pp. 365-409. Elsevier.
- Rangelov, S., Petrov, P. Chapter 13: Template-Assisted Approaches for Preparation of Nano-sized Polymer Structures, In *Nano-size Polymers - Preparation, Properties, Applications*, Ed. Fakirov, S., Springer, 2016, pp. 19-48
1359. J Li, J Zou, H Xiao, B He, X Hou, L Qian, Preparation of Novel Nano-Sized Hydrogel Microcapsules via Layer-By-Layer Assembly as Delivery Vehicles for Drugs onto Hygiene Paper, *Polymers*, 2018, 10(3), 335
1360. Hernandez, H.; Tauer, K. Heterophase Polymerization: Basic Concepts and Principles. Book, Jenny Stanford Publishing. 2021.
- Petrov, P., Tsvetanov, Ch., Mokreva, P., Yoncheva, K., Konstantinov, S., Trusheva, B., Popova, M., Bankova, V., *Novel micellar form of poplar propolis with high cytotoxic activity*. *RSC Advances*, 2016, 6(36), 30728 - 30731.
1361. Bilginer, R., Arslan Yildiz, A. A facile method to fabricate propolis enriched biomimetic PVA architectures by co-electrospinning *Materials Letters*, 276, art. no. 128191(2020)
1362. J. A. Abdo, F. M. Alsharif, N. Salah, O.A.Y. Elkhawaga, Cytotoxic Effect of Propolis Nanoparticles on Ehrlich Ascites Carcinoma Bearing Mice, *Advances in Nanoparticles*, 2019, 8, 55-70
1363. H Zhang, Y Fu, F Niu, Z Li, C Ba, B Jin, G Chen, X Li Enhanced antioxidant activity and in vitro release of propolis by acid-induced aggregation using heat-denatured zein and carboxymethyl chitosan, *Food Hydrocolloids*, 2018, 81, 104-112
- Grancharov, G., Gancheva, V., Petrov, P., De Winter, J., Gerbaux, P., Dubois, P, Coulembier, O. *Nanoporous poly (3-hexylthiophene) thin films based on "click" prepared degradable diblock copolymers*. *RSC Advances*, 2016, 6(40) 33468 - 33477.
1364. T Ube, T Kosaka, H Okazaki, K Nakae, T Ikeda, A block copolymer of crosslinkable polythiophene and removable poly (ethylene oxide) for preparing heterostructures of organic semiconductors, *Journal of Materials Chemistry C*, 2017, 5, 1414-1419
1365. G Zhang, Y Ohta, T Yokozawa, Exclusive Synthesis of Poly (3-hexylthiophene) with an Ethynyl Group at Only One End for Effective Block Copolymerization, *Macromolecular rapid communication*, 2018, 39, (3), 1700586
1366. JP Lutz, MD Hannigan, AJ McNeil, Polymers synthesized via catalyst-transfer polymerization and their applications, *Coordination Chemistry Reviews*, 2018, 376, 225-247
1367. Njenga, S.M., Wang, X., Jiang, W., Wan, X.B., "Nanostructure Control of a Regioregular Poly(3-alkylthiophene) Using an Oligopeptide Side Chain". *Macromolecules* 53(14), 6087-6098, 2020
1368. Alvarez, S., Marcasua, P., Billon, L. Bio-Inspired Silica Films Combining Block Copolymers Self-Assembly and Soft Chemistry: Paving the Way toward Artificial Exoskeleton of Seawater Diatoms, *Macromolecular Rapid Communications*, 2021, 42(4), 2000582

1369. Zhai, Y., Li, C. and Gao, L., Degradable block copolymer-derived nanoporous membranes and their applications. *Giant*, 2023, p.100183.
- Petrov, P., Yoncheva, K., Gancheva, V., Konstantinov, S., Trzebiecka, B. *Multifunctional block copolymer nanocarriers for co-delivery of silver nanoparticles and curcumin: Synthesis and enhanced efficacy against tumor cells. European Polymer Journal*, 2016, 81, 24-33.
1370. MC Bonferoni, S Rossi, G Sandri, F Ferrari, Nanoparticle formulations to enhance tumor targeting of poorly soluble polyphenols with potential anticancer properties, *Seminars in Cancer Biology*, 2017, 46, 205-214
1371. Fufă, RC Popescu, TG Gherasim, A M. Grumezescu, E Andronescu, Silver-based nanostructures for cancer therapy, *Nanostructures for Cancer Therapy A volume in Micro and Nano Technologies*, 2017, 16, 405–428
1372. F Novelli, S De Santis, M Diociaiuti, C Giordano, S Morosetti, P Punzi, F Sciubba, V Viali, G Masci, A Scipioni, Curcumin loaded nanocarriers obtained by self-assembly of a linear d, l-octapeptide-poly (ethylene glycol) conjugate, *European Polymer Journal*, 2018, 98, 28-38
1373. I Pinzaru, D Coricovac, C Dehelean, E-A Moacă, M Mioc, F Baderca, I Sizemore, S Brittle, D Marti, Stable PEG-coated silver nanoparticles – A comprehensive toxicological profile, *Food and Chemical Toxicology* 2018, 111, 546-556
1374. J Y Lee, K Shin, H Seo, H Jun, A N S Hirai, J W Lee, Y S Nam, J W Kim, Tailored layer-by-layer deposition of silica reinforced polyelectrolyte layers on polymer microcapsules for enhanced antioxidant cargo retention, *Journal of Industrial and Engineering Chemistry*, 2018, 58, 80-86
1375. Girdhar, V.; Patil, S.; Banerjee, S.; Singhvi, G. Nanocarriers For Drug Delivery: Mini Review, *Current Nanomedicine(Formerly: Recent Patents on Nanomedicine)*, 2018, 8(2), 88-99
1376. A.-C. Burduşel,, O. Gherasim,, A. M. Grumezescu, L. Mogoantă, A. Fica, E. Andronescu, Biomedical Applications of Silver Nanoparticles: An Up-to-Date Overview, *Nanomaterials* 2018, 8(9), 681
1377. H Batra, S Pawar, D Bahl, Curcumin in Combination with Anti-Cancer Drugs: A Nanomedicine Review, *Pharmacological research*, 2018, 139, 91-105,
1378. Ackova, D.G., Smilkov, K., Bosnakovski, D. Contemporary formulations for drug delivery of anticancer bioactive compounds, *Recent Patents on Anti-Cancer Drug Discovery*, 2019, 14(1), pp. 19-31
1379. Loan Khanh, L., Thanh Truc, N., Tan Dat, N., (...), Thi Thanh Loan, T., Thi Hiep, N. , Gelatin-stabilized composites of silver nanoparticles and curcumin: characterization, antibacterial and antioxidant study, *Science and Technology of Advanced Materials*, 2019, 20(1), 276-290
1380. Lachowicz, D., Karabas, A., Bzowska, M., (...), Karewicz, A., Nowakowska, M. Blood-compatible, stable micelles of sodium alginate – Curcumin bioconjugate for anti-cancer applications, *European Polymer Journal*, 2019, 113, 208-219
1381. Feldman, D. Polymers and polymer nanocomposites for cancer therapy, *Applied Sciences (Switzerland)*, 2019, 9(18), 3899
1382. Bin-Jumah, M., Al-Abdan, M., Albasher, G., Alarifi, S. Effects of green silver nanoparticles on apoptosis and oxidative stress in normal and cancerous human hepatic cells in vitro *International Journal of Nanomedicine*, 15, pp. 1537-1548(2020)
1383. Długosz, O., Szostak, K., Staroń, A., Pulit-Prociak, J., Banach, M. Methods for reducing the toxicity of metal and metal oxide NPs as biomedicine Materials, 13 (2), art. no. 279(2020)
1384. Khan, R.U., Yu, H., Wang, L., Zhang, Q., Xiong, W., Zain-ul-Abdin, Nazir, A., Fahad, S., Chen, X., Elsharaarani, T. Synthesis of polyorganophosphazenes and preparation of their polymersomes for reductive/acidic dual-responsive anticancer drugs release *Journal of Materials Science*, 55 (19), pp. 8264-8284(2020)
1385. Korzeniowska, B., Fonseca, M.P., Gorshkov, V., Skytte, L., Rasmussen, K.L., Schröder, H.D., Kjeldsen, F. The Cytotoxicity of Metal Nanoparticles Depends on Their Synergistic Interactions Particle and Particle Systems Characterization, 37 (8), art. no. 2000135(2020)
1386. Nasery, M.M., Abadi, B., Poormoghadam, D., Zarrabi, A., Keyhanvar, P., Khanbabaei, H., Ashrafizadeh, M., Mohammadinejad, R., Tavakol, S., Sethi, G. Curcumin delivery mediated by bio-based nanoparticles: A review *Molecules*, 25 (3), art. no. 689(2020)
1387. Pontes-Quero, G.M., Benito-Garzón, L., Pérez Cano, J., Aguilar, M.R., Vázquez-Lasa, B. Amphiphilic polymeric nanoparticles encapsulating curcumin: Antioxidant, anti-inflammatory and biocompatibility studies, *Materials Science and Engineering C*, 2021, 121,111793
1388. Kashyap, D., Tuli, H.S., Yerer, M.B., Sethi, G., Bishayee, A. "Natural product-based nanoformulations for cancer therapy: Opportunities and challenges". *Seminars in Cancer Biology*, 2021, 69, pp. 5-23
1389. Pacho, María Natalia, Eugenio Nahuel Pugni, Johanna Briyith Díaz Sierra, María Laura Morell, Claudia Soledad Sepúlveda, Elsa Beatriz Damonte, Cybele Carina García, and Norma Beatriz D'Accorso. "Antiviral activity against Zika virus of a new formulation of curcumin in poly lactic-co-glycolic acid nanoparticles." *Journal of Pharmacy and Pharmacology* 73, no. 3 (2021): 357-365.

1390. Sohrabi, Somayeh, Mohammad Khedri, Reza Maleki, Mostafa Keshavarz Moraveji, and Ebrahim Ghasemy. "In-Silico Tuning of Curcumin Loading on PEG Grafted Chitosan: An Atomistic Simulation." *ChemistrySelect* 6, no. 18 (2021): 4544-4555.
  1391. El-Sherbiny, E.M., Abdel-Gawad, E.I., Osman, H.F., Impact of nano silver composite structure on cadmium neurotoxicity in albino rats, *Applied Biological Chemistry*, 2022, 65 (1), art. no. 70, .
  1392. Kukut Hatipoglu, M., Akkus Sut, P., Synthesis and Biological Use of Nanomaterials, *Topics in Applied Physics*, 2022, 144, pp. 793-858
  1393. Goel, M., Sharma, A. and Sharma, B., Recent advances in biogenic silver nanoparticles for their biomedical applications. *Sustainable Chemistry*, 2023, 4(1), pp.61-94.
  1394. Phan, T.T.V. and Santhamoorthy, M., Preparation of Dual pH-and Temperature-Sensitive Nanogels for Curcumin Delivery. *Materials Proceedings*, 2023, 14(1), p.71.
  1395. Rehman, T. and Tabibur, R., 2024. Advancements in nanostructure applications for the anticancer delivery of natural compounds. *International Journal of Research in Pharmaceutical Sciences and Technology*, 4(2), pp.30-39.
- Boshkova, N.D., Petrov, P.D., Chukova, V., Lutov, L., Vitkova, S.D., Boshkov, N.S. *Surface morphology and corrosion behavior of zinc and zinc composite coatings with Cr(III) based conversion films*. *Bulgarian Chemical Communications*, 2016, 48, Special Issue-B, 53-59.
1396. Weng, T., Lai, D., Li, X., Deng, W., Kong, G. Preparation and Property of Superhydrophobic Phosphate-Cerium Composite Coatings on Hot-dip Galvanizing Carbon Steel, *Chinese Journal of Materials Research*, 2018, 32(11), 801-810
- Tzankova, V., Gorinova, C., Kondeva-Burdina, M., Simeonova, R., Philipov, S., Konstantinov, S., Petrov, P., Galabov, D., Yoncheva K. *In vitro and in vivo toxicity evaluation of cationic PDMAEMA-PCL-PDMAEMA micelles as a carrier of curcumin*, *Food and Chemical Toxicology* 2016, 97, 1-10.
1397. YN Chen, SL Hsu, MY Liao, YT Liu, CH Lai, J-F Chen, M-H T Nguyen, Y-H Su, S-T Chen, L-C Wu, Ameliorative Effect of Curcumin-Encapsulated Hyaluronic Acid-PLA Nanoparticles on Thioacetamide-Induced Murine Hepatic Fibrosis, *Int. J. Environ. Res. Public Health* 2017, 14(1), 11
  1398. S Stagnoli, MA Luna, CC Villa, F Alustiza, A Niebylski, F Moyano, N. M Correa, R. Darío Falcone, Unique catanionic vesicles as a potential "Nano-Taxi" for drug delivery systems. In vitro and in vivo biocompatibility evaluation, *RSC Advances*, 2017, 7, 5372-5380
  1399. Q Liu, X Ji, Z Ge, H Diao, X Chang, L Wang, Q Wu, Role of connexin 43 in cadmium-induced proliferation of human prostate epithelial cells, *Journal of Applied Toxicology*, 2017, 37(8), 933-942.
  1400. B Yan, D Wang, S Dong, Z Cheng, L Na, M Sang, H Yang, Z Yang, S Zhang, Z Yan, Palmatine inhibits TRIF-dependent NF- $\kappa$ B pathway against inflammation induced by LPS in goat endometrial epithelial cells, *International Immunopharmacology* 45 (2017) 194-200
  1401. M Alibolandi, M Mohammadi, S M Taghdisi, K Abnous, M Ramezani, Synthesis and preparation of biodegradable hybrid dextran hydrogel incorporated with biodegradable curcumin nanomicelles for full thickness wound healing, *International Journal of Pharmaceutics*, 2017, 532(1), 466-477.
  1402. D W Malcolm, M A T Freeberg, Y Wang, K R Sims Jr., H A Awad, D S W Benoit, Diblock Copolymer Hydrophobicity Facilitates Efficient Gene Silencing and Cytocompatible Nanoparticle-Mediated siRNA Delivery to Musculoskeletal Cell Types, *Biomacromolecules*, 2017, 18 (11), pp 3753-3765
  1403. TK Meleshko, AS Ivanova, AV Kashina, I. V. Ivanov, T. N. Nekrasova, N. V. Zakharova, A. P. Filippov, A. V. Yakimansky, Synthesis of Graft Copolyimides with Poly(N,N-dimethylamino-2-ethyl methacrylate) Side Chains and Hybrid Nanocomposites with Silver Nanoparticles, *Polym. Sci. Ser. B* 2017, 59, 674-688.
  1404. L. Qiu, Q. Li, J. Huang, Q. Wu, K. Tu, Y. Wu, X. Zhang, J. Qian, R. Zhang, G. Li, M. Sun, L. Si, In vitro effect of mPEG2k -PCLx micelles on rat liver cytochrome P450 enzymes, *International Journal of Pharmaceutics*, 2018, 552(1-2), 99-110
  1405. M Farshbaf, S Davaran, A Zarebkohan, N Annabi, A Akbarzadeh, Roya Salehi, Significant role of cationic polymers in drug delivery systems, *Artificial Cells, Nanomedicine, and Biotechnology*, 2018, 46(8), 1872-1891
  1406. Zhao, Y., Guo, W., Lu, Q., Zhang, S., Preparation of poly(butylene succinate)-poly[2-(dimethylamino)ethyl methacrylate] copolymers and their applications as carriers for drug delivery, *Polymer International*, 2018, 67(6), pp. 708-716
  1407. D. C. F. Soares, C. M. R. Oda, L. O. F. Monteiro, A. L. B. de Barros, M. L. Tebaldi, Responsive polymer conjugates for drug delivery applications: recent advances in bioconjugation methodologies, *Journal of Drug Targeting*, 2019, 27(4), pp. 355-366
  1408. Li, Q., Sun, M., Li, G., Qiu, L., Huang, Z., Gong, J., Huang, J., Li, G., Si, L. "The sub-chronic impact of mPEG2k-PCLx polymeric nanocarriers on cytochrome P450 enzymes after intravenous administration in rats". *European Journal of Pharmaceutics and Biopharmaceutics*, 2019, 142, 101-113

1409. Pereira, M.P., de Gomes, M.G., Izoton, J.C., Nakama, K.A., dos Santos, R.B., Pinto Savall, A.S., Ramalho, J.B., Roman, S.S., Luchese, C., Cibir, F.W., Pinton, S., Haas, S.E. "Cationic and anionic unloaded polymeric nanocapsules: Toxicological evaluation in rats shows low toxicity". *Biomedicine and Pharmacotherapy*, 2019, 116, 109014
1410. de Gomes, M.G., Pando Pereira, M., Guerra Teixeira, F.E., Carvalho, F., Pinto Savall, A.S., Ferreira Bicca, D., Monteiro Fidelis, E., Botura, P.E., Weber Cibir, F., Pinton, S., Haas, S.E. Assessment of unloaded polymeric nanocapsules with different coatings in female rats: Influence on toxicological and behavioral parameters *Biomedicine and Pharmacotherapy*, 121, art. no. 109575(2020)
1411. Nakama, K.A., dos Santos, R.B., da Rosa Silva, C.E., Izoton, J.C., Savall, A.S.P., Gutierrez, M.E.Z., Roman, S.S., Luchese, C., Pinton, S., Haas, S.E. Establishment of analytical method for quantification of anti-inflammatory agents co-nanoencapsulated and its application to physicochemical development and characterization of lipid-core nanocapsules *Arabian Journal of Chemistry*, 13 (1), pp. 2456-2469(2020)
1412. Pereira-Silva, M., Jarak, I., Santos, A.C., Veiga, F., Figueiras, A. Micelleplex-based nucleic acid therapeutics: From targeted stimuli-responsiveness to nanotoxicity and regulation *European Journal of Pharmaceutical Sciences*, 153, art. no. 105461(2021)
1413. Yogaraj, V., Gowtham, G., Aksheda, C., Manikandan, R., Murugan, E., Arumugam, M. Quaternary ammonium poly (amidoamine) dendrimeric encapsulated nanocurcumin efficiently prevents cataract of rat pups through regulation of pro-inflammatory gene expression *Journal of Drug Delivery Science and Technology*, 58, art. no. 101785(2020)
1414. Raychaudhuri, R., Pandey, A., Hegde, A., Abdul Fayaz, S.M., Chellappan, D.K., Dua, K., Mutalik, S., Factors affecting the morphology of some organic and inorganic nanostructures for drug delivery: characterization, modifications, and toxicological perspectives, *Expert Opinion on Drug Delivery*, 2020, 17 (12), pp. 1737-1765
1415. Robla, S., Prasanna, M., Varela-Calviño, R., Grandjean, C., Csaba, N. A chitosan-based nanosystem as pneumococcal vaccine delivery platform, *Drug Delivery and Translational Research*, 2021, 11 (2), pp. 581-597.
1416. Akbari-Alavijeh, Safoura, Rezvan Shaddel, and Seid Mahdi Jafari. "In vivo assessments for predicting the bioavailability of nanoencapsulated food bioactives and the safety of nanomaterials." *Critical Reviews in Food Science and Nutrition* (2021): 1-19.
1417. Saengruengrit, C., K. Rodponthukwaji, J. Sucharitakul, P. Tummamunkong, T. Palaga, P. Ritprajak, and N. Insin. "Effective gene delivery into primary dendritic cells using synthesized PDMAEMA-iron oxide nanocubes." *Materials Today Chemistry* 20 (2021): 100481.
1418. Zhang, Enqi, Nadezhda Osipova, Maxim Sokolov, Olga Maksimenko, Aleksey Semyonkin, MinHui Wang, Lisa Grigartzik, Svetlana Gelperina, Bernhard A. Sabel, and Petra Henrich-Noack. "Exploring the systemic delivery of a poorly water-soluble model drug to the retina using PLGA nanoparticles." *European Journal of Pharmaceutical Sciences* (2021): 105905.
1419. Bu, Xiaotong, Na Ji, Lei Dai, Xuyan Dong, Min Chen, Liu Xiong, and Qingjie Sun. "Self-assembled micelles based on amphiphilic biopolymers for delivery of functional ingredients." *Trends in Food Science & Technology* 2021, 114, 386-398
1420. Mukhtar, M., Csaba, N., Robla, S., Varela-Calviño, R., Nagy, A., Burian, K., Kókai, D., Ambrus, R., Dry Powder Comprised of Isoniazid-Loaded Nanoparticles of Hyaluronic Acid in Conjugation with Mannose-Anchored Chitosan for Macrophage-Targeted Pulmonary Administration in Tuberculosis, *Pharmaceutics*, 2022, 14 (8), art. no. 1543.
1421. Farhoudi, L., Kesharwani, P., Majeed, M., Johnston, T.P., Sahebkar, A., Polymeric nanomicelles of curcumin: Potential applications in cancer, *International Journal of Pharmaceutics*, 2022, 617, art. no. 121622.
1422. Akbari-Alavijeh, S., Shaddel, R., Jafari, S.M., In vivo assessments for predicting the bioavailability of nanoencapsulated food bioactives and the safety of nanomaterials, *Critical Reviews in Food Science and Nutrition*, 2022, 62 (27), pp. 7460-7478.
1423. Zhang ME. Kinetics of polymeric nanoparticulate carriers and cargo under physiological and pathological conditions in the retina (Doctoral dissertation, Otto von Guericke University Magdeburg) 2022.
1424. Bhattacharjee, R., Negi, A., Bhattacharya, B., Dey, T., Mitra, P., Preetam, S., Kumar, L., Kar, S., Das, S.S., Iqbal, D. and Kamal, M., Nanotheranostics to target antibiotic-resistant bacteria: Strategies and applications. *OpenNano*, 2023, p.100138.
1425. Hani, U., Gowda, B.J., Siddiqua, A., Wahab, S., Begum, M.Y., Sathishbabu, P., Usmani, S. and Ahmad, M.P., Herbal approach for treatment of cancer using curcumin as an anticancer agent: A review on novel drug delivery systems. *Journal of Molecular Liquids*, 2023, 390, p.123037.
1426. Zhu, C., Zhang, Z., Wen, Y., Song, X., Zhu, J., Yao, Y. and Li, J., Cationic micelles as nanocarriers for enhancing intra-cartilage drug penetration and retention. *Journal of Materials Chemistry B*, 2023, 11(8), pp.1670-1683.
1427. Picos-Corrales, L.A., Licea-Claverie, A., Sarmiento-Sánchez, J.I., Ruelas-Leyva, J.P., Osuna-Martínez, U. and García-Carrasco, M., Methods of nanoencapsulation of phytochemicals using organic platforms. In *Phytochemical Nanodelivery Systems as Potential Biopharmaceutics* 2023, pp. 123-184. Elsevier.
1428. Jacob, S., Kather, F.S., Morsy, M.A., Boddu, S.H., Attimarad, M., Shah, J., Shinu, P. and Nair, A.B., 2024. Advances in Nanocarrier Systems for Overcoming Formulation Challenges of Curcumin: Current Insights. *Nanomaterials*, 14(8), p.672.

1429. Zuben de Valega Negrão, C.V., Cerize, N.N., Silva Justo-Junior, A.D., Liszbinski, R.B., Meneguetti, G.P., Araujo, L., Rocco, S.A., Almeida Gonçalves, K.D., Cornejo, D.R., Leo, P. and Perecin, C., 2024. HER2 aptamer-conjugated iron oxide nanoparticles with PDMAEMA-b-PMPC coating for breast cancer cell identification. *Nanomedicine*, 19(3), pp.231-254.
- Hristov, A., Christova, N., Kabaivanova, L., Nacheva, L., Stoineva, I., Petrov, P. *Simultaneous Biodegradation of Phenol and n-Hexadecane by Cryogel Immobilized Biosurfactant Producing Strain Rhodococcus wratislawiensis BN38*, *Polish Journal of Microbiology* 2016, 65(3), 287-293.
1430. Araujo, Juliana Eschholz de, Caracterização genômica e metabólica de Planctomycetes isolados de solos de manguezais brasileiros (Genomic and metabolic characterization of Planctomycetes isolates from Brazilian mangrove soils), PhD Thesis, Escola Superior de Agricultura Luiz de Queiroz, 2018-07-05
1431. Krivoruchko, A., Kuyukina, M., Ivshina, I. Advanced Rhodococcus biocatalysts for environmental biotechnologies, *Catalysts* 2019, 9(3),236
1432. Memic, A., Colombani, T., Eggermont, L.J., Rezaeeyazdi, M., Steingold, J., Rogers, Z.J., Navare, K.J., Mohammed, H.S., Bencheri, S.A., Latest Advances in Cryogel Technology for Biomedical Applications, *Adv. Therap.*2019,2, 1800114
1433. Pirog, T.P., Heichenko, B.S., Shevchuk, T.A., Muchnyk, F.V. Biosynthesis of surfactants by actinobacteria of rhodococcus genus *Mikrobiolohichnyi Zhurnal*, 82 (2), pp. 67-81(2020)
1434. Guo, Y., Zhang, M., Wang, Y., Tian, W., Liang, J., Tan, H. and Wang, X., Insight of microbial degradation of n-hexadecane and n-heneicosane in soil during natural attenuation and bioaugmentation by Compound-specific Stable Isotope Analysis (CSIA). *Journal of Environmental Chemical Engineering*, 2023, 11(3), p.109755.
1435. Gerginova, M., Spankulova, G., Paunova-Krasteva, T., Peneva, N., Stoitsova, S. and Alexieva, Z., Effects of Aromatic Compounds Degradation on Bacterial Cell Morphology. *Fermentation*, 2023, 9(11), p.957.
- Kamenova, K., Trzebicka, B., Momekova, D., Petrov, P. *Double stimuli responsive mixed aggregates from poly (acrylic acid)-block-poly (ε-caprolactone)-block-poly (acrylic acid) and poly (ethylene oxide)-block-poly (propylene oxide)-block-poly (ethylene oxide) triblock copolymers*, *Polymer Bulletin*, 2017, 74(3), 707-720.
1436. Ismail, S.R., Bryaskova, R.G., Georgiev, N.I., Philipova, N.D., Bakov, V.V., Uzunova, V.P., Tzoneva, R.D., Bojinov, V.B. Design and synthesis of fluorescent shell functionalized polymer micelles for biomedical application *Polymers for Advanced Technologies*, 31 (6), pp. 1365-1376(2020)
1437. Qu, S., Liu, R., Duan, W., Zhang, W. "RAFT Dispersion Polymerization in the Presence of Block Copolymer Nanoparticles and Synthesis of Multicomponent Block Copolymer Nanoassemblies". *Macromolecules*, 2019, 52(14), pp. 5168-5176
- Tzankova, V., Gorinova, C., Kondeva-Burdina, M., Simeonova, R., Philipov, S., Konstantinov, S., Petrov, P., Galabov, D., Yoncheva K, *Antioxidant response and biocompatibility of curcumin-loaded triblock copolymeric micelles*, *Toxicology Mechanisms and Methods*, 2017, 27(1), 72-80.
1438. J Huang, X Yao, G Weng, H Qi, X Ye, Protective effect of curcumin against cyclosporine A-induced rat nephrotoxicity, *Molecular medicine reports*, 2018, 17, 6038-6044.
1439. W-L Ye, Y-P Zhao, Y Cheng, D-Z Liu, H Cui, M Liu, B-L Zhang, Q-B Mei, S-Y Zhou, Bone metastasis target redox-responsive micell for the treatment of lung cancer bone metastasis and anti-bone resorption, *Artificial Cells, Nanomedicine, and Biotechnology* , 2018, 10.1080/21691401.2018.1426007
1440. Babaei, M., Davoodi, J., Dehghan, R., Zahiri, M., Abnous, K., Taghdisi, S.M., Ramezani, M., Alibolandi, M. Thermosensitive composite hydrogel incorporated with curcumin-loaded nanopolymerosomes for prolonged and localized treatment of glioma *Journal of Drug Delivery Science and Technology*, 59, art. no. 101885(2020)
1441. Pontes-Quero, G.M., Benito-Garzón, L., Pérez Cano, J., Aguilar, M.R., Vázquez-Lasa, B., Amphiphilic polymeric nanoparticles encapsulating curcumin: Antioxidant, anti-inflammatory and biocompatibility studies, *Materials Science and Engineering C*, 2021, 121,111793
1442. Skandalis, A., Selianitis, D., Sory, D.R., Rankin, S.M., Jones, J.R., Pispas, S., Poly(2-(dimethylamino) ethyl methacrylate)-b-poly(lauryl methacrylate)-b-poly(oligo ethylene glycol methacrylate) triblock terpolymer micelles as drug delivery carriers for curcumin, *Journal of Applied Polymer Science*, 2022, 139 (38), art. no. e52899, .
1443. Wu, H., Tatiyaborworntham, N., Hajimohammadi, M., Decker, E.A., Richards, M.P. and Undeland, I., 2024. Model systems for studying lipid oxidation associated with muscle foods: Methods, challenges, and prospects. *Critical Reviews in Food Science and Nutrition*, 64(1), pp.153-171.
- Georgiev, G.L., Trzebicka, B., Kostova, b., Petrov P.D., *Super-macroporous dextran cryogels via UV-induced crosslinking: synthesis and characterization*, *Polymer International* 2017, 66 (9), 1306-1311.
1444. M Madaghiele, L Salvatore, C Demitri, A Sannino , Fast synthesis of poly (ethylene glycol) diacrylate cryogels via UV irradiation, *Materials Letters*, 2018, 218, 305-308
1445. T Sedlačik, OK Acar, H Studenovská, I Kotelnikov, J. Kučka, Z. Konečná, T. Zikmund, J. Kaiser, G. T. Koseb and F. Rypáček, Chondrogenic potential of macroporous biodegradable cryogels based on synthetic poly (α-amino acids), *Soft matter*, 2018, 14, 228-238



1446. V Lozinsky Cryostructuring of Polymeric Systems. 50.† Cryogels and Cryotropic Gel-Formation: Terms and Definitions, Gels, 2018, 4(3), 77
1447. Ari, B., Yetiskin, B., Okay, O., Sahiner, N., Preparation of dextran cryogels for separation processes of binary dye and pesticide mixtures from aqueous solutions, Polymer Engineering and Science, 2020, 60 (8), pp. 1890-1901.
1448. Haleem, A., Li, H.-J., Li, P.-Y., Hu, C.-S., Li, X.-C., Wang, J.-Y., Chen, S.-Q., He, W.-D. Rapid UV-radiation synthesis of polyacrylate cryogel oil-sorbents with adaptable structure and performance Environmental Research, 187, art. no. 109488 (2020)
1449. Inglezakis, V.J., Satayeva, A., Yagofarova, A., Tauanov, Z., Meiramkulova, K., Farrando-Pérez, J., Bear, J.C. Surface interactions and mechanisms study on the removal of iodide from water by use of natural Zeolite-based silver nanocomposites Nanomaterials, 10 (6), art. no. 1156(2020)
1450. Pacelli, S., Di Muzio, L., Paolicelli, P., Fortunati, V., Petralito, S., Trilli, J., Casadei, M.A., Dextran-polyethylene glycol cryogels as spongy scaffolds for drug delivery, International Journal of Biological Macromolecules, 2021, 166, pp. 1292-1300.
1451. Savina, Irina N., Mohamed Zoughaib, and Abdulla A. Yergeshov. "Design and Assessment of Biodegradable Macroporous Cryogels as Advanced Tissue Engineering and Drug Carrying Materials." Gels 7, no. 3 (2021): 79.
1452. Joukhdar, Habib, Annika Seifert, Tomasz Jüngst, Jürgen Groll, Megan S. Lord, and Jelena Rnjak-Kovacina. "Ice Templating Soft Matter: Fundamental Principles and Fabrication Approaches to Tailor Pore Structure and Morphology and Their Biomedical Applications." Advanced Materials 33, no. 34 (2021): 2100091.
1453. Nicol, Erwan. "Photopolymerized Porous Hydrogels." Biomacromolecules 22, no. 4 (2021): 1325-1345.
1454. Masullo, Ugo, Anna Cavallo, Maria Raffaella Greco, Stephan J. Reshkin, Maria Mastrodonato, Nunzia Gallo, Luca Salvatore et al. "Semi-interpenetrating polymer network cryogels based on poly (ethylene glycol) diacrylate and collagen as potential off-the-shelf platforms for cancer cell research." Journal of Biomedical Materials Research Part B: Applied Biomaterials 2021, 109(9), 1313-1326
1455. Fouassier, J. -P. Lalevée, J. "Photoinitiators in Specific Polymerization Processes". In book: Photoinitiators, 2021. DOI: 10.1002/9783527821297.ch17,
1456. Haleem, A., Pan, J.M., Shah, A., Hussain, H. and He, W.D., 2023. A systematic review on new advancement and assessment of emerging polymeric cryogels for environmental sustainability and energy production. Separation and Purification Technology, p.123678.
1457. Ambreen, J., Haleem, A., Shah, A.A., Mushtaq, F., Siddiq, M., Bhatti, M.A., Shah Bukhari, S.N.U., Chandio, A.D., Mahdi, W.A. and Alshehri, S., 2023. Facile Synthesis and Fabrication of NIPAM-Based Cryogels for Environmental Remediation. Gels, 9(1), p.64.
1458. Omidian, H., Dey Chowdhury, S. and Babanejad, N., 2023. Cryogels: Advancing biomaterials for transformative biomedical applications. Pharmaceutics, 15(7), p.1836.
1459. Shuangshuang Miao, Yu Wang, Minhui Lu, Xiangdong Liu, Yongping Chen, Yuanjin Zhao, Freezing-derived functional materials, Materials Today, 2024, 74, 235-268,
- Stoyanova, E., Petrov, P., Karadjova, I., Momekov, G., Koseva, N., *Cisplatin delivery vehicles based on stabilized polymeric aggregates comprising poly(acrylic acid) chains*, Polymer Journal 2017, 49(8), 607-615.
1460. Nguyen, N.H., Dang, L.H., Doan, P., Nguyen, N.T., Tran, N.Q. Polyacrylic-conjugated polyamidoamine G4.0 dendrimer as a potential nanocarrier for effective delivery of cisplatin, Bulletin of Materials Science, 2021, 44(2), 87
1461. Cocetta, V., Ragazzi, E., Montopoli, M. "Mitochondrial involvement in cisplatin resistance" International Journal of Molecular Sciences 2019, 20(14), 3384
1462. Jermy, B.R., Alomari, M., Ravinayagam, V., Ameen Almofty, S., Akhtar, S. , Borgio, J.F., Abdul Azeez, S. "SPIONs/3D SiSBA-16 based Multifunctional Nanoformulation for target specific cisplatin release in colon and cervical cancer cell lines". Scientific Reports 2019, 9(1), 14523
1463. Riccardi, C., Musumeci, D., Trifuoggi, M., Irace, c., Paduano, L., Montesarchio, D. "Anticancer ruthenium(III) complexes and Ru(III)-containing nanoformulations: An update on the mechanism of action and biological activity". Pharmaceuticals 2019, 12(4), 146
1464. Nguyen, N.H., Dang, L.H., Doan, P., Nguyen, N.T., Tran, N.Q. Polyacrylic-conjugated polyamidoamine G4.0 dendrimer as a potential nanocarrier for effective delivery of cisplatin, Bulletin of Materials Science, 2021, 44(2), 87
- Petrov, P.D., Grancharov, G., Gancheva, V., Trusheva, B., Bankova, V., Tsvetanov, C.B., *Development of propolis-loaded block copolymer micelles of superior structural stability and high loading capacity*, Polymer 2017, 125, 102-109
1465. Assem M, Khowessah OM, Ghorab D, Optimization and Evaluation of Beclomethasone Dipropionate Micelles Incorporated into Biocompatible Hydrogel Using a Sub-Chronic Dermatitis Animal Model. AAPS PharmSciTech 20(4), 152, 2019
1466. Irigoiti, Yanet, Alba Navarro, Diego Yamul, Carina Libonatti, Anahi Tabera, and Marina Basualdo. "The use of propolis as a functional food ingredient: A review." Trends in Food Science & Technology 2021, 115, 297-306
1467. An, Seong-Hyeon, Eunmi Ban, In-Young Chung, You-Hee Cho, and Aeri Kim. "Antimicrobial Activities of Propolis in Poloxamer Based Topical Gels." Pharmaceutics 13, no. 12 (2021).



1468. Suwiński, Grzegorz, and Izabela Nowak. "Tradycyjne i nowatorskie technologie systemów dostarczania leku dla substancji trudno rozpuszczalnych w wodzie: studium przypadku na przykładzie propolisu." *Przemysł Chemiczny* 100, no. 6 (2021): 600-605.

Slavkova, M.I., Momekova, D.B., Kostova, B.D., Momekov, G.T., Petrov, P.D. *Novel dextran/ $\beta$ -cyclodextrin and dextran macroporous cryogels for topical delivery of curcumin in the treatment of cutaneous T-cell lymphoma*, *Bulgarian Chemical Communications* 2017, **49**(4), 792-799

1469. Arslan, M. In situ crosslinking system of gelatin with acrylated  $\beta$ -cyclodextrin towards the fabrication of hydrogels for sustained drug release *Journal of the Turkish Chemical Society, Section A: Chemistry*, 7 (2), pp. 597-608(2020)
1470. Gholibegloo, E., Mortezaadeh, T., Salehian, F., Forootanfar, H., Firoozpour, L., Foroumadi, A., Ramazani, A., Khoobi, M. "Folic acid decorated magnetic nanosponge: An efficient nanosystem for targeted curcumin delivery and magnetic resonance imaging". *Journal of Colloid and Interface Science*, 2019, 556, 128-139
1471. Vásquez, L., Dziza, K., Loo, S.-L., Binas, V., Stefa, S., Kiriakidis, G., Athanassiou, A., Fragouli, D., Highly performant nanocomposite cryogels for multicomponent oily wastewater filtration, *Separation and Purification Technology*, 2022, 303, art. no. 122252,
1472. Shahzadi, I., Islam, M., Saeed, H., Haider, A., Shahzadi, A., Rathore, H.A., Ul-Hamid, A., Abd-Rabboh, H.S. and Ikram, M., Synthesis of curcuma longa doped cellulose grafted hydrogel for catalysis, bactericidal and insilico molecular docking analysis. *International Journal of Biological Macromolecules*, 2023, 253, p.126827.
1473. Omidian, H., Dey Chowdhury, S. and Babanejad, N., Cryogels: Advancing Biomaterials for Transformative Biomedical Applications. *Pharmaceutics*, 2023, 15(7), p.1836.
1474. Sebastian, S., Rohila, Y., Yadav, E., Bhardwaj, P., Sudheer Babu, Y., Maruthi, M., Ansari, A. and Gupta, M.K., 2024. Supramolecular Organo/hydrogel-Fabricated Long Alkyl Chain  $\alpha$ -Amidoamides as a Smart Soft Material for pH-Responsive Curcumin Release. *Biomacromolecules*, 25(2), pp.975-989.

Haladjova, E., Kyulavska, M., Doumanov, J., Topouzova-Hristova, T., Petrov, P., *Polymeric vehicles for transport and delivery of DNA via cationic micelle template method*, *Colloid and Polymer Science* 2017, **295**(11), 2197-2205

1475. Quang Tran, H., Bhav, M., Yu, A. Current Advances of Hollow Capsules as Controlled Drug Delivery Systems *ChemistrySelect*, 5 (19), pp. 5537-5551(2020)
1476. Sun, H., Erdman, W., Yuan, Y., Mohamed, M.A., Xie, R., Wang, Y., Gong, S., Cheng, C. Crosslinked polymer nanocapsules for therapeutic, diagnostic, and theranostic applications *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, 12 (6), art. no. e1653(2020)
1477. Wang, Y., Yoshitomi, T., Kawazoe, N., Yang, Y., Chen, G., Micropattern-Controlled Cell Density and Its Effect on Gene Transfection of Mesenchymal Stem Cells, *Advanced Materials Interfaces*, 2022, 9 (18), art. no. 2101978, .
1478. Lima, A.L., Gratieri, T., Cunha-Filho, M., Gelfuso, G.M., Polymeric nanocapsules: A review on design and production methods for pharmaceutical purpose, *Methods*, 2022, 199, pp. 54-66.

Pencheva, V., Margaritova, E., Borinarova, M., Slavkova, M., Momekova, D., Petrov, P.D. *A novel approach for fabricating nanocomposite materials by embedding stabilized core-shell micelles into polysaccharide cryogel matrix*, *Carbohydrate Polymers* 2018, **183**, 165-172.

1479. Li, J., Wang, Y., Zhang, L., Xu, Z., Dai, H., Wu, W. , "Nanocellulose/Gelatin Composite Cryogels for Controlled Drug Release". *ACS Sustainable Chemistry and Engineering*, 2019, 7(6), 6381-6389
1480. Hu, X., Wang, Y., Zhang, L., Xu, M. "Design of a novel polysaccharide-based cryogel using triallyl cyanurate as crosslinker for cell adhesion and proliferation". *International Journal of Biological Macromolecules*, 2019, 126, 221-228
1481. Su, T., Wu, L., Pan, X., Zhang, C., Shi, M., Gao, R., Qi, X., Dong, W. "Pullulan-derived nanocomposite hydrogels for wastewater remediation: Synthesis and characterization". *Journal of Colloid and Interface Science*, 2019, 542, 253-262
1482. Z. Liu, M. Chen, Y. Guoa, X. Wang, L. Zhang, J. Zhou, H. Li, Q. Shi, Self-assembly of cationic amphiphilic cellulose-g-poly (p-dioxanone) copolymers, *Carbohydrate Polymers* 2019, 204, 214-222
1483. Y Liu, S Zhou, Y Gao, Y Zhai , Electrospun nanofibers as a wound dressing for treating diabetic foot ulcer, *Asian Journal of Pharmaceutical Sciences*, 2019, 14(2), 130-143
1484. Saylan, Y., Denizli, A. "Supermacroporous composite cryogels in biomedical applications". *Gels*, 2019, 5(2), 20
1485. Haleem, A., Chen, J., Guo, X.-X., Wang, J.-Y., Li, H.-J., Li, P.-Y., Chen, S.-Q., He, W.-D. Hybrid cryogels composed of P(NIPAM-co-AMPS) and metal nanoparticles for rapid reduction of p-nitrophenol *Polymer*, 193, art. no. 122352 (2020)
1486. Tian, Yiran, Xufeng Zhang, Xiyun Feng, Jinneng Zhang, and Tianyi Zhong. "Shapeable and underwater super-elastic cellulose nanofiber/alginate cryogels by freezing-induced oxa-Michael reaction for efficient protein purification." *Carbohydrate Polymers* 272 (2021): 118498.
1487. Liu, C., Wang, D., Wang, Z., Zhang, H., Chen, L., Wei, Z., Sulfolane Crystal Templating: A One-Step and Tunable Polarity Approach for Self-Assembled Super-Macroporous Hydrophobic Monoliths, *ACS Applied Materials and Interfaces*, 2022, 14 (40), pp. 45810-45821.

1488. Fang, F., Junejo, S.A., Wang, K., Yang, X., Yuan, Y. and Zhang, B., Fibre matrices for enhanced gut health: a mini review. *International Journal of Food Science & Technology*, 2023, 58(8), pp.e1-e7.
1489. Raschip, I.E., Fifere, N., Lazar, M.M., Hitruc, G.E. and Dinu, M.V., Ice-Templated and Cross-Linked Xanthan-Based Hydrogels: Towards Tailor-Made Properties. 2023, *Gels*, 9(7), p.528.
1490. Omidian, H., Dey Chowdhury, S. and Babanejad, N., Cryogels: Advancing Biomaterials for Transformative Biomedical Applications. *Pharmaceutics*, 2023, 15(7), p.1836.
1491. Gokarneshan, N., Jothimanikandan, A., Periyasamy, P., Ponmaniselvan, M. and Sridhar, K., 2024. Evaluating the Therapeutic Effect of Nano Fibers on Diabetic Foot Ulcers—an Innovative Approach. *Int J Nanotechnol Nanomed*, 9(1), pp.01-05.
- Momekova, D, Ugrinova, I, Slavkova, M, Momekov, G, Grancharov, G, Gancheva, V, Petrov, P. *Superior proapoptotic activity of curcumin-loaded mixed block copolymer micelles with mitochondrial targeting properties. Biomaterials Science*, 2018, 6, 3309-3317.
1492. Biasutto L, Mattarei A, La Spina M, Azzolini, M, Parrasia S, Szabo I, Zoratti M, Strategies to target bioactive molecules to subcellular compartments. Focus on natural compounds. *European Journal of Medicinal Chemistry* 181, 111557, 2019
1493. Zhong XC, Xu WH, Wang ZT, Guo WW, Chen JJ, Guo NN, Wang TT, Lin MT, Zhang ZT, Lu YY, Yang QY, Han M, Xu DH, Gao JQ, Doxorubicin derivative loaded acetal-PEG-PCCL micelles for overcoming multidrug resistance in MCF-7/ADR cells. *Drug Dev Ind Pharmacy* 45(9), 1556-1564, 2019
1494. Musib D, Pal M, Raza M-K, Roy M, Photo-physical, theoretical and photo-cytotoxic evaluation of a new class of lanthanide(iii)-curcumin/diketone complexes for PDT application. *Dalton Transactions* 49 (31), 10786-10798, 2020
1495. Mazumdar, S., Chitkara, D., Mittal, A. Exploration and insights into the cellular internalization and intracellular fate of amphiphilic polymeric nanocarriers, *Acta Pharmaceutica Sinica B*, 2021, 11(4), pp. 903-924
1496. Pontes-Quero, G.M., Benito-Garzón, L., Pérez Cano, J., Aguilar, M.R., Vázquez-Lasa, B. Amphiphilic polymeric nanoparticles encapsulating curcumin: Antioxidant, anti-inflammatory and biocompatibility studies, *Materials Science and Engineering C*, 2021, 121,111793
1497. Liew SS, Qin X, Zhou J, Li L, Huang W, Yao SQ, Smart Design of Nanomaterials for Mitochondria-Targeted Nanotherapeutics. *Angewandte Chemie - International Edition* 2021, 60(5), pp. 2232-2256
1498. Ma, T., Chen, R., Lv, N., Li, Y., Yang, Z.-R., Qin, H., Li, Z., Jiang, H., Zhu, J., Morphological Transformation and In Situ Polymerization of Caspase-3 Responsive Diacetylene-Containing Lipidated Peptide Amphiphile for Self-Amplified Cooperative Antitumor Therapy, *Small*, 2022, 18 (48), art. no. 2204759, .
1499. Abuwatfa, W.H., AlSawaftah, N.M., Hussein, G.A., Block copolymer micelles as long-circulating drug delivery vehicles, *Polymeric Micelles for Drug Delivery*, 2022, pp. 531-560.
1500. Cai Y, Qi J, Lu Y, He H, Wu W. The in vivo fate of polymeric micelles. *Advanced Drug Delivery Reviews*. 2022, 188, 114463.
1501. Sripetthong, S., Eze, F.N., Sajomsang, W. and Ovatlarnporn, C., Development of pH-Responsive N-benzyl-N-O-succinyl Chitosan Micelles Loaded with a Curcumin Analog (Cyqualone) for Treatment of Colon Cancer. *Molecules*, 2023, 28(6), p.2693.
1502. Suvarna, V., Sawant, N. and Desai, N., 2024. Curcumin-conjugated Nanoparticles: An Approach to Target Mitochondria. *The Natural Products Journal*, 14(1), pp.105-117.
- Borisova, D, Haladjova, E, Kyulavska, M, Petrov, P, Pispas, S, Stoitsova, S, Paunova-Krasteva, Ts. *Application of cationic polymer micelles for the dispersal of bacterial biofilms. Engineering in Live Sciences*, 2018, 18,943-948.
1503. Ma, S., Feng, X., Liu, F., Wang, B., Zhang, H., Niu, X. "The pro-inflammatory response of macrophages regulated by acid degradation products of poly(lactide-co-glycolide) nanoparticles". *Eng Life Sci*. 2021; 1– 12.
1504. Shuang Tian, Henny C. van der Mei, Yijin Ren, Henk J. Busscher, Linqi Shi, "Recent advances and future challenges in the use of nanoparticles for the dispersal of infectious biofilms". *Journal of Materials Science & Technology*, 2021, 84, 208-218
1505. Teper, P., Chojniak-Gronek, J., Hercog, A., Oleszko-Torbus, N., Plaza, G., Kubacki, J., Balin, K., Kowalczyk, A., Mendrek, B. Nanolayers of poly(N, N'-dimethylaminoethyl methacrylate) with a star topology and their antibacterial activity *Polymers*, 12 (1), art. no. 230 (2020)
1506. Tessier, J., Schmitzer, A.R. Benzimidazolium salts prevent and disrupt methicillin-resistant: *Staphylococcus aureus* biofilms *RSC Advances*, 10 (16), pp. 9420-9430(2020)
1507. Tian, S., Su, L., Liu, Y., Cao, J., Yang, G., Ren, Y., Huang, F., Liu, J., An, Y., van der Mei, H.C., Busscher, H.J., Shi, L. Self-targeting, zwitterionic micellar dispersants enhance antibiotic killing of infectious biofilms—An intravital imaging study in mice *Science Advances*, 6 (33), art. no. eabb1112 (2020)
1508. Kizheva, Yoana, Melani Eftimova, Radoslav Rangelov, Neli Micheva, Zoltan Urshev, Iliyana Rasheva, and Petya Hristova. "Broad host range bacteriophages found in rhizosphere soil of a healthy tomato plant in Bulgaria." *Heliyon* 2021, 7(5), e07084.
1509. Ma, Shufang, Xinxing Feng, Fangxiu Liu, Bin Wang, Hua Zhang, and Xufeng Niu. "The pro-inflammatory response of macrophages regulated by acid degradation products of poly (lactide-co-glycolide) nanoparticles." *Engineering in Life Sciences* 2021, 21(10),709-720

1510. Tian, Shuang, Henny C. van der Mei, Yijin Ren, Henk J. Busscher, and Linqi Shi. "Recent advances and future challenges in the use of nanoparticles for the dispersal of infectious biofilms." *Journal of Materials Science & Technology* 2021, 84, 208-218
  1511. Liu, Hongyu, Jie Yang, Xiangjie Yan, Chaoqi Li, Mahmoud Elsabahy, Li Chen, Ying-Wei Yang, and Hui Gao. "Dendritic Polyamidoamine Supramolecular System Composed of Pillar [5] arene and Azobenzene for Targeting Drug-Resistant Colon Cancer." *Journal of Materials Chemistry B* (2021).
  1512. Ranjit P, Manisha S, Reddy KV, Kumar PS. Use of Nanotechnology for Biofilm Mitigation. In *Microbial Biofilms 2022* (pp. 255-276). CRC Press.
  1513. Malouch, D., Berchel, M., Dreanno, C., Stachowski-Haberkorn, S., Chalopin, M., Godfrin, Y. and Jaffrès, P.A., Evaluation of lipophosphoramidates-based amphiphilic compounds on the formation of biofilms of marine bacteria. *Biofouling*, 2023, 39(6), pp.591-605.
  1514. El Mahmoudi, A., Tareau, A.S., Barreau, M., Chevalier, S., Hourma, C., Demange, L., Benhida, R. and Bougrin, K., Green synthesis and anti-biofilm activities of 3, 5-disubstituted isoxazoline/isoxazole-linked secondary sulfonamide derivatives on *Pseudomonas aeruginosa*. *Bioorganic & Medicinal Chemistry Letters*, 2023, 96, p.129517.
  1515. Yushina, Y.K., Sybachin, A.V., Kuznecova, O.A., Semenova, A.A., Tolordava, E.R., Pigareva, V.A., Bolshakova, A.V., Misin, V.M., Zezin, A.A., Yaroslavov, A.A. and Bataeva, D.S., Thin Cationic Polymer Coatings against Foodborne Infections. *Coatings*, 2023, 13(8), p.1389.
  1516. Kizheva, Y., Urshev, Z., Dimitrova, M., Bogatzewska, N., Moncheva, P. and Hristova, P., Phenotypic and Genotypic Characterization of Newly Isolated *Xanthomonas euvesicatoria*-Specific Bacteriophages and Evaluation of Their Biocontrol Potential. *Plants*, 2023, 12(4), p.947.
  1517. Tian, S., 2023. Polymeric micelles for the dispersal of infectious biofilms. PhD Thesis, University of Groningen
- Kamenova, K, Haladjova, E, Grancharov, G, Kyulavska, M, Tzankova, V, Aluani, D, Yoncheva, K, Pispas, S, Petrov, P. *Co-assembly of block copolymers as a tool for developing novel micellar carriers of insulin for controlled drug delivery*. *European Polymer Journal*, 2018, 104, 1-9.
1518. Medeiros, GB, de Souza, PR, Retamiro, KM, Nakamura, CV, Muniz, EC, Corradini, E. Experimental design to evaluate properties of electrospun fibers of zein/poly (ethylene oxide) for biomaterial applications. *J Appl Polym Sci*. 2021;e50898
  1519. Levit, M., Zashikhina, N., Vdovchenko, A., Dobrodumov, A., Zakharova, N., Kashina, A., Rühl, E., Lavrentieva, A., Scheper, T., Tennikova, T., Korzhikova-Vlakh, E. Bio-Inspired Amphiphilic Block-Copolymers Based on Synthetic Glycopolymer and Poly(Amino Acid) as Potential Drug Delivery Systems. *Polymers* 2020, 12, 183.
  1520. Valverde, C., Lligadas, G., Ronda, J.C., Galià, M., Cádiz, V. Synthesis and characterization of castor oil-derived oxidation-responsive amphiphilic block copolymers: Poly(ethylene glycol)-b-poly(11-((2-hydroxyethyl)thio)undecanoate) *European Polymer Journal*, 133, art. no. 109736(2020)
  1521. Cegłowski M, Kurczewska J, Ruszkowski P, Schroeder G, Application of paclitaxel-imprinted microparticles obtained using two different cross-linkers for prolonged drug delivery. *European Polymer Journal* 118, 328-336, 2019
  1522. Soni V., Pandey V., Asati S., Gour V., Tekade R.K., Chapter 11 - Biodegradable Block Copolymers and Their Applications for Drug Delivery, Editor(s): Rakesh K. Tekade, In *Advances in Pharmaceutical Product Development and Research, Basic Fundamentals of Drug Delivery*, Academic Press, 2018, 401-447.
  1523. Medeiros, Gabriela Brunosi. Preparation and characterization of nanofibers zein/poly (Ethylene oxide) by electrospinning solution - PhD thesis. 2018, Universidade Tecnológica Federal do Paraná, Londrina-Brasil.
  1524. Valverde, C., Lligadas, G., Ronda, J.C., Galià, M., Cádiz, V.; "PEG-modified poly(10,11-dihydroxyundecanoic acid) amphiphilic copolymers. Grafting versus macromonomer copolymerization approaches using CALB", *European Polymer Journal*, 2018, 109, 179-190.
  1525. Kumar, Krishan, and Pannuru Venkatesu. "Role of protein-copolymer assembly in controlling micellization process of amphiphilic triblock copolymer." *Journal of Colloid and Interface Science* 2022, 608, 2142-2157
  1526. Du, K., Xia, Q.-S., Zhang, L.-H., Wen, J., Huang, Z., Zhu, Z.-S., Copolymers induced co-assembly for constructing novel micellar carriers by computer simulations, *Chemical Physics Letters*, 2022, 803, art. no. 139874.
  1527. Choudhury, S. and Patra, P., Recent Developments in Nano-Formulations Against Diabetes. *Recent Patents on Nanotechnology*, 2023, 17(4), pp.340-358.
  1528. Barfar, A., Alizadeh, H., Masoomzadeh, S. and Javadzadeh, Y., 2024. Oral Insulin Delivery: A Review On Recent Advancements and Novel Strategies. *Current Drug Delivery*, 21(6), pp.887-900.
- Yoncheva, K, Tzankova, V, Yordanov, Y, Tzankov, B, Grancharov, G, Aluani, D, Bankova, V, Popova, M, Trusheva, B, Kondeva-Burdina, M, Petrov, P. *Evaluation of antioxidant activity of caffeic acid phenethyl ester loaded block copolymer micelles*. *Biotechnology & Biotechnological Equipment*, 2019, 33(1), 64-74
1529. Qin, J., Yang, M., Wang, Y., Wa, W., Zheng, J., Interaction between caffeic acid/caffeic acid phenethyl ester and micellar casein, *Food Chemistry*, 2021, 349,129154
  1530. He Y, Li H, Zheng X, Yuan M, Yang R, Yuan M, Yang C, Preparation, in vivo and in vitro release of polyethylene glycol monomethyl ether-polymandelic acid microspheres loaded panax notoginseng saponins. *Molecules* 24(10), 2024, 2019

1531. Anmol, Rusat Jahin, Shabnam Marium, Fei Tsong Hiew, Wan Chien Han, Lee Kuan Kwan, Alicia Khai Yeen Wong, Farzana Khan et al. "Phytochemical and Therapeutic Potential of Citrus grandis (L.) Osbeck: A Review." *Journal of evidence-based integrative medicine* 26 (2021): 2515690X211043741.
1532. Choi, Seon-Hee, Dong-Yeon Lee, Sohi Kang, Min-Kyung Lee, Jae-Heun Lee, Sang-Heon Lee, Hye-Lim Lee, Hyo-Young Lee, and Young-IL Jeong. "Caffeic Acid Phenethyl Ester-Incorporated Radio-Sensitive Nanoparticles of Phenylboronic Acid Pinacol Ester-Conjugated Hyaluronic Acid for Application in Radioprotection." *International Journal of Molecular Sciences* 22, no. 12 (2021): 6347.
1533. Abdallah, E.A.A., El-Refaei, M.F., Caffeic acid phenethyl ester mitigates infertility: A crucial role of metalloproteinase and angiogenic factor in cadmium-induced testicular damage, *Journal of Biochemical and Molecular Toxicology*, 2022, 36 (2), art. no. e22960.
1534. Prajapati SK, Jain D, Parveen S, Maji S, Deb PK. Nanodelivery of Antioxidant Herbal Extracts, Spices, and Dietary Constituents. In *Phytoantioxidants and Nanotherapeutics*. 2022, pp145-71, John Wiley & Sons, Inc.
1535. Shah, S.K., Tiwari, S., Patel, M.K., Dubey, B. And Basediya, D., Topical Delivery Of Cape Through Microsphere Loaded Gel. *International Journal of Pharmaceutical Research* (09752366), 15(3), 2023.
1536. Yanti, E.N. and Kustiawan, P.M., 2023. STUDY OF INDONESIAN STINGLESS BEE PROPOLIS POTENTIAL AS ANTIOXIDANT: A REVIEW. *Jurnal Farmasi Sains dan Praktis*, pp.261-269.
- Tzankova, V, Aluani, D, Yordanov, Y, Kondeva-Burdina, M, Petrov, P, Bankova, V, Simeonova, R, Vitcheva, V, Odjakov, F, Apostolov, A, Tzankov, B, Yoncheva, K. *Micellar propolis nanoformulation of high antioxidant and hepatoprotective activity. Brazilian Journal of Pharmacognosy*, 2019, 29, 364-372
1537. El Menyiy, N., Bakour, M., El Ghouizi, A., El Guendouz, S., Lyoussi, B., Influence of Geographic Origin and Plant Source on Physicochemical Properties, Mineral Content, and Antioxidant and Antibacterial Activities of Moroccan Propolis, *International Journal of Food Science*, 2021,5570224
1538. Permana, A.D., Utami, R.N., Courtenay, A.J., Manggau, M.A., Donnelly, R.F., Rahman, L. Phytosomal nanocarriers as platforms for improved delivery of natural antioxidant and photoprotective compounds in propolis: An approach for enhanced both dissolution behaviour in biorelevant media and skin retention profiles *Journal of Photochemistry and Photobiology B: Biology*, 205, art. no. 111846(2020)
1539. Mendez-Pfeiffer, Pablo, Josue Juarez, Javier Hernandez, Pablo Taboada, Claudia Virues, Dora Valencia, and Carlos Velazquez. "Nanocarriers as drug delivery systems for propolis: A therapeutic approach." *Journal of Drug Delivery Science and Technology* (2021): 102762.
1540. Fitria, Annisa, Suci Hanifah, Lutfi Chabib, Adnan Muhammad Uno, Hodijatul Munawwarah, Nur Atsil, Hendry Aditya Pohara, Dwi Amalia Weuanggi, and Yandi Syukri. "Design and characterization of propolis extract loaded self-nano emulsifying drug delivery system as immunostimulant." *Saudi Pharmaceutical Journal* 2021, 29(6), 625-634.
1541. Suwiński, Grzegorz, and Izabela Nowak. "Tradycyjne i nowatorskie technologie systemów dostarczania leku dla substancji trudno rozpuszczalnych w wodzie: studium przypadku na przykładzie propolisu." *Przemysł Chemiczny* 100, no. 6 (2021): 600-605.
1542. Hossain, R., Quispe, C., Khan, R.A., Saikat, A.S.M., Ray, P., Ongalbek, D., Yeskaliyeva, B., Jain, D., Smeriglio, A., Trombetta, D., Kiani, R., Kobarfard, F., Mojangi, N., Saffarian, P., Ayatollahi, S.A., Sarkar, C., Islam, M.T., Keriman, D., Uçar, A., Martorell, M., Sureda, A., Pintus, G., Butnariu, M., Sharifi-Rad, J., Cho, W.C., Propolis: An update on its chemistry and pharmacological applications, *Chinese Medicine (United Kingdom)*, 2022, 17 (1), art. no. 100, .
1543. Wang, Y., Fu, Y., McClements, D.J., Ba, C., Li, T., Enhanced Colon-Targeted Release of Propolis by pH-driven Encapsulation using Folic Acid Modified Carboxymethyl Chitosan, *Food Biophysics*, 2022, 17 (3), pp. 386-396.
1544. Javed, S., Mangla, B., Ahsan, W., From propolis to nanopropolis: An exemplary journey and a paradigm shift of a resinous substance produced by bees, *Phytotherapy Research*, 2022, 36 (5), pp. 2016-2041.
1545. Kumar, A., Rao, R., Formulation and modification of physicochemical parameters of p-Coumaric acid by cyclodextrin nanosponges, *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 2022, 102 (3-4), pp. 313-326.
1546. Saad, S., Abdel-Fattah, D., Khamis, T., El-Sobky, A., Potential Role of Propolis Nanoparticles in Medicine and Health: An Updated Review, *Advances in Animal and Veterinary Sciences*, 2022, 10 (3), pp. 589-598.
1547. Araujo FO, Felício MB, Lima CF, Piccolo MS, Pizzio VR, Diaz-Muñoz G, Bastos DS, Oliveira LL, PELUZIO M, Diaz MA. Antioxidant and anti-inflammatory activity of curcumin transdermal gel in an IL-10 knockout mouse model of inflammatory bowel disease. *Anais da Academia Brasileira de Ciências*. 2022;94(4): e20201378.
1548. Azmoudeh, F. and Nazeri, N., Nanocurcumin: its applications in preventive, restorative, and regenerative dentistry. *Revista Brasileira de Farmacognosia*, 2023, pp.1-13.
1549. Karakas, C.Y., Ustundag, C.B., Sahin, A. and Karadag, A., Co-axial electrospinning of liposomal propolis loaded gelatin-zein fibers as a potential wound healing material. *Journal of Applied Polymer Science*, 2023, 140(46), p.e54683.
1550. Vieira, A.L.S., Correia, V.T.D.V., Ramos, A.L.C.C., da Silva, N.H.A., Jaymes, L.A.C., Melo, J.O.F., de Paula, A.C.C.F.F., Garcia, M.A.V.T. and Araújo, R.L.B.D., Evaluation of the Chemical Profile and Antioxidant Capacity of Green, Brown, and Dark Propolis. *Plants*, 2023, 12(18), p.3204.



1551. Abdel-Gawad, D.R., Ibrahim, M.A., Moawad, U.K., Kamel, S., El-Banna, H.A., El-Banna, A.H., Hassan, W.H. and El-Ela, F.I.A., Effectiveness of natural biomaterials in the protection and healing of experimentally induced gastric mucosa Ulcer in rats. *Molecular Biology Reports*, 2023, pp.1-14.
1552. Kustiawan, P.M., Syaifie, P.H., Al Khairy Siregar, K.A., Ibadillah, D. and Mardiyati, E., 2024. New insights of propolis nanoformulation and its therapeutic potential in human diseases. *ADMET and DMPK*, 12(1), pp.1-26.
1553. Aziz, R.L.A., Abdel-Wahab, A., Abdel-Razik, A.R.H., Kamel, S., Farghali, A.A., Saleh, R., Mahmoud, R., Ibrahim, M.A., Nabil, T.M. and El-Ela, F.I.A., 2024. Physiological roles of propolis and red ginseng nanoplatfoms in alleviating dexamethasone-induced male reproductive challenges in a rat model. *Molecular Biology Reports*, 51(1), p.72.
- Toncheva-Moncheva, N; Bakardzhiev, P; Rangelov, S; Trzebicka, B; Foryś, A; Petrov, P. *Linear Amphiphilic Polyglycidol/Poly(ε-caprolactone) Block Copolymers Prepared via "Click" Chemistry-based Concept*. *Macromolecules*, 2019, 52(9), 3435-3447.
1554. Wang, Zeyu, *Amphiphilic Triblock Copolymers for 3D Printable and Biodegradable Hydrogels*, 2020, Master of Science, University of Akron, Polymer Science
1555. Valverde, C.; Lligadas, G.; Ronda, J. C.; Galià, M.; Cádiz, V. Synthesis and Characterization of Castor Oil-Derived Oxidation-Responsive Amphiphilic Block Copolymers: Poly(ethylene glycol)-b-poly(11-((2-hydroxyethyl)thio)undecanoate). *Eur. Polym. J.* 2020, 133, 109736.
1556. Wehr, R.; Gaitzsch, J.; Daubian, D.; Fodor, C.; Meier, W. Deepening the Insight into Poly(Butylene Oxide)-block-Poly(Glycidol) Synthesis and Self-Assemblies: Micelles, Worms and Vesicles. *RSC Adv.* 2020, 10, 22701-22711.
1557. Liu, Yihuan, Jiaqi Wu, Xin Hu, Ning Zhu, and Kai Guo. "Advances, Challenges, and Opportunities of Poly (γ-butyrolactone)-Based Recyclable Polymers." *ACS Macro Letters* 10, no. 2 (2021): 284-296.
1558. Liu, Yihuan, Jiaqi Wu, Huan Liang, Zhao Jin, Lianzhu Sheng, Xin Hu, Ning Zhu, and Kai Guo. "Recyclable polymer functionalization via end-group modification and block/random copolymerization." *Green Energy & Environment* 6, no. 4 (2021): 578-584.
1559. Geng, Zhishuai, Jaeman J. Shin, Yumeng Xi, and Craig J. Hawker. "Click chemistry strategies for the accelerated synthesis of functional macromolecules." *Journal of Polymer Science* 59, no. 11 (2021): 963-1042.
1560. Wehr, Riccardo Pascal. *Synthesis and Aqueous Self-assembly of Atactic and Isotactic Poly(butylene oxide)-block-poly(glycidol) Diblock Copolymers*. 2021, Doctoral Thesis, University of Basel, Faculty of Science.
1561. Balzade, Z., Sharif, F., Ghaffarian Anbaran, S.R., Tailor-Made Functional Polyolefins of Complex Architectures: Recent Advances, Applications, and Prospects, *Macromolecules*, 2022, 55 (16), pp. 6938-6972.
1562. Liu, Y.-H., Yuan, X., Wu, J.-Q., Luo, M.-X., Hu, X., Zhu, N., Guo, K., Fully Chemical Recyclable Poly(γ-butyrolactone)-based Copolymers with Tunable Structures and Properties, *Chinese Journal of Polymer Science (English Edition)*, 2022, 40 (5), pp. 456-461.
1563. Bou, S., Klymchenko, A.S., Collot, M., Fluorescently Labeled Branched Copolymer Nanoparticles for in Situ Characterization of Nanovectors and Imaging of Cargo Release, *ACS Applied Nano Materials*, 2022, 5 (3), pp. 4241-4251.
1564. Plank, M., Frieß, F.V., Bitsch, C.V., Pieschel, J., Reitenbach, J. and Gallei, M., Modular Synthesis of Functional Block Copolymers by Thiol-Maleimide "Click" Chemistry for Porous Membrane Formation. *Macromolecules*, 2023, 56(4), pp.1674-1687.
1565. Kunkel, G.E., Treacy, J.W., Montgomery, H.R., Puente, E.G., Doud, E.A., Spokoyny, A.M. and Maynard, H.D., 2024. Efficient end-group functionalization and diblock copolymer synthesis via Au (iii) polymer reagents. *Chemical Communications*, 60(1), pp.79-82.
1566. Han, Y., Chen, Z., Wang, J., Jin, Y., Ma, H., Yang, Z., Zhang, Y., Ma, M., Lei, Z. and Lu, D., 2024. Targeted embolization and chemotherapy for solid tumors by microenvironment-responsive poly (amino acid) s. *Journal of Macromolecular Science, Part A*, 61(2), pp.79-88.
- N. Christova, L. Kabaivanova, L. Nacheva, P. Petrov, I Stoineva *Biodegradation of crude oil hydrocarbons by a newly isolated biosurfactant producing strain*. *Biotechnology & Biotechnological Equipment*, 2019, 33(1), 863-872
1567. Tanzadeh, J., Ghasemi, M.F., Anvari, M., Issazadeh, K. Biological removal of crude oil with the use of native bacterial consortia isolated from the shorelines of the Caspian Sea *Biotechnology and Biotechnological Equipment*, 34 (1), pp. 361-374(2020)
1568. Berillo, Dmitriy, Areej Al-Jwaid, and Jonathan Caplin. "Polymeric Materials Used for Immobilisation of Bacteria for the Bioremediation of Contaminants in Water." *Polymers* 13, no. 7 (2021): 1073.
1569. Sadighbayan, Khosrow, Abbas Farazmand, Mahnaz Mazaheri-asadi, Alireza Monadi Sefidan, and Nasser Aliasgharzad. "A Comparative Study on Four Strains of Petroleum Hydrocarbon-degrading Bacteria for the Bioremediation of Petroleum-contaminated Soils." *Biological Journal of Microorganism* 10, no. 37 (2021): 51-65.

1570. Salam, Lateef B., Oluwafemi S. Obayori, Mathew O. Ilori, and Olukayode O. Amund. "Acenaphthene biodegradation and structural and functional metagenomics of the microbial community of an acenaphthene-enriched animal charcoal polluted soil." *Biocatalysis and Agricultural Biotechnology* 32 (2021): 101951.
1571. Anani, O. A., Jeevanandam, J., Adetunji, C. O., Inobeme, A., Oloke, J. K., Yerima, M. B., ... & Olaniyan, O. T. (2021). Application of biosurfactant as a noninvasive stimulant to enhance the degradation activities of indigenous hydrocarbon degraders in the soil. In *Green Sustainable Process for Chemical and Environmental Engineering and Science* (pp. 69-87). Elsevier.
1572. Nassar, H.N., Rabie, A.M., Abu Amr, S.S., El-Gendy, N.S., Kinetic and statistical perspectives on the interactive effects of recalcitrant polyaromatic and sulfur heterocyclic compounds and in-vitro nanobioremediation of oily marine sediment at microcosm level, *Environmental Research*, 2022, 209, art. no. 112768, .
1573. Ezzat, S.M., Ahmed, N.A., Short-Term Biodegradation of Crude Petroleum Oil in Water by Photostimulated *Janibacter terrae* Strain S1N1, *ACS Omega*, 2022, 7 (16), pp. 13976-13984.
1574. Bacosa, H.P., Ancla, S.M.B., Arcadio, C.G.L.A., Dalogdog, J.R.A., Ellos, D.M.C., Hayag, H.D.A., Jarabe, J.G.P., Karim, A.J.T., Navarro, C.K.P., Palma, M.P.I., Romarate, R.A., II, Similatan, K.M., Tangkion, J.A.B., Yurong, S.N.A., Mabuhay-Omar, J.A., Inoue, C., Adhikari, P.L., From Surface Water to the Deep Sea: A Review on Factors Affecting the Biodegradation of Spilled Oil in Marine Environment, *Journal of Marine Science and Engineering*, 2022, 10 (3), art. no. 426.
1575. Saeed, M., Ilyas, N., Bibi, F., Jayachandran, K., Dattamudi, S., Elgorban, A.M., Biodegradation of PAHs by *Bacillus marsilavi*, genome analysis and its plant growth promoting potential, *Environmental Pollution*, 2022, 292, art. no. 118343.
1576. Shah SW, Rehman MU, Tauseef M, Islam E, Hayat A, Iqbal S, Arslan M, Afzal M. Ciprofloxacin Removal from Aqueous Media Using Floating Treatment Wetlands Supported by Immobilized Bacteria. *Sustainability*. 2022, 14(21):14216.
1577. Baburam C, Mitema A, Tsekoa T, Feto NA. *Bacillus* Species and Their Invaluable Roles in Petroleum Hydrocarbon Bioremediation. In *Bacilli in Agrobiotechnology* 2022 (pp. 101-126). Springer, Cham.
1578. Sayuti I, Zulfarina Z, Widodo TJ. Influence of Potential Hydrogen (pH) on the Growth of *Bacillus cereus* IMB-11 during Hydrocarbon Degradation in vitro. *JURNAL PEMBELAJARAN DAN BIOLOGI NUKLEUS*. 2022, 8(3):686-93.
1579. Radhakrishnan, A., Balaganesh, P., Vasudevan, M., Natarajan, N., Chauhan, A., Arora, J., Ranjan, A., Rajput, V.D., Sushkova, S., Minkina, T. and Basniwal, R.K., 2023. Bioremediation of Hydrocarbon Pollutants: Recent Promising Sustainable Approaches, Scope, and Challenges. *Sustainability*, 15(7), p.5847.
1580. Farfan Pajuelo, D.G., Carpio Mamani, M., Maraza Choque, G.J., Chachaque Callo, D.M. and Cáceda Quiroz, C.J., 2023. Effect of Lyoprotective Agents on the Preservation of Survival of a *Bacillus cereus* Strain PBG in the Freeze-Drying Process. *Microorganisms*, 11(11), p.2705.
1581. Kopalle, P. and Pothana, S.A., 2023. Biodegradation of Waste Lubricant Oil by a Novel Isolated Biosurfactant Producer- *Achromobacter xylosoxidans* PSA5. *Geomicrobiology Journal*, 40(8-10), pp.756-765.
1582. Das, S., Behera, B.C., Sudarshan, M., Chakraborty, A. and Thatoi, H., 2023. Bioreduction potential of chromate resistant bacteria isolated from chromite mine water of Sukinda, Odisha. *Bioremediation Journal*, 27(2), pp.158-168.
1583. Balakrishnan, S., Rameshkumar, M.R., Krithika, C., Nivedha, A., Kumar, D.T. and Arunagirinathan, N., 2023. Biodegradation and Cytotoxic Effects of Biosurfactants. In *Advancements in Biosurfactants Research* (pp. 95-116). Cham: Springer International Publishing.
1584. Munezero, J., Kassaza, K., Bazira, J. and Kiwanuka, G.N., 2024. Bioremedial potential of bacteria isolated from soil in automobile garages and fuel stations in Mbarara City, Southwestern Uganda. *Bioremediation Journal*, pp.1-13.
1585. Singh, P., Rani, P., Kumar, K.D. and Kumar, R., 2024. Elucidating Furfuryl Alcohol Degradation by *Pseudomonas* Species and Biokinetic Study. *Journal of Polymers and the Environment*, pp.1-11.
1586. Mohammed, M.K., Khudhair, S.H. and Jabbar, A.D., 2024. Enhancement of oil biodegradation by using the biosurfactant produced from local *Bacillus subtilis* isolate. *Advancements in Life Sciences*, 11(2), pp.482-487.
- Yoncheva K., Galabov D., Hristova-Avakumova N., Hadjimitova V., Petrov P., Poly( $\epsilon$ -caprolactone) based nanocarriers of kaempferol: A comparative study, *Comptes Rendus de L'Academie Bulgare des Sciences*, 2019, (3) 333-340
1587. Bodin-Thomazo, N., Malloggi, F., Pantoustier, N., Perrin, P., Guenoun, P., Rosilio, V., Formation and stabilization of multiple w/o/w emulsions encapsulating catechin, by mechanical and microfluidic methods using a single pH-sensitive copolymer: Effect of copolymer/drug interaction, *International Journal of Pharmaceutics*, 2022, 622, art. no. 121871.
- Paunova-Krasteva, T. , Haladjova, E. , Petrov, P. , Forys, A., Trzebicka, B., Topouzova-Hristova, T. , R. Stoitsova, S. *Destruction of Pseudomonas aeruginosa pre-formed biofilms by cationic polymer micelles bearing silver nanoparticles*. *Biofouling* 2020, 36(6), 679-695
1588. Shuang Tian, Henny C. van der Mei, Yijin Ren, Henk J. Busscher, Linqi Shi. "Recent advances and future challenges in the use of nanoparticles for the dispersal of infectious biofilms". *Journal of Materials Science & Technology*, 2021, 84, 208-218



1589. Safronova, V.N., Bolosov, I.A., Kruglikov, R.N., Korobova, O.V., Pereskokova, E.S., Borzilov, A.I., Panteleev, P.V., Ovchinnikova, T.V., Novel  $\beta$ -Hairpin Peptide from Marine Polychaeta with a High Efficacy against Gram-Negative Pathogens, *Marine Drugs*, 2022, 20 (8), art. no. 517.
1590. Ranjit P, Manisha S, Reddy KV, Kumar PS. Use of Nanotechnology for Biofilm Mitigation. In *Microbial Biofilms 2022* (pp. 255-276). CRC Press.
1591. Tian, S., 2023. Polymeric micelles for the dispersal of infectious biofilms. PhD Thesis, University of Groningen
1592. Song, W., Kim, C., Lee, J., Han, J., Jiang, Z., Kim, J., An, S., Park, Y. and Kweon, J., 2024. Low-biofouling membrane bioreactor: Effects of cis-2-Decenoic acid addition on EPS and biofouling mitigation. *Chemosphere*, 358, p.142110.
1593. Shakib, P., Saki, R., Marzban, A., Goudarzi, G., Ghotekar, S., Cheraghipour, K. and Zolfaghari, M.R., 2024. Antibacterial Effects of Nanocomposites on Efflux Pump Expression and Biofilm Production in *Pseudomonas aeruginosa*: A Systematic Review. *Current Pharmaceutical Biotechnology*, 25(1), pp.77-92.
- D. Momekova, E. Ivanov, S. Konstantinov, F. Ublekov, P.D. Petrov, *Nanocomposite Cryogel Carriers from 2-Hydroxyethyl Cellulose Network and Cannabidiol-Loaded Polymeric Micelles for Sustained Topical Delivery*. *Polymers* 2020, 12 (5), 1172
1594. Tijani, A.O., Thakur, D., Mishra, D., Chukwunyere, U.I., Puri, A., Delivering therapeutic cannabinoids via skin: Current state and future perspectives, *Journal of Controlled Release*, 2021, 334, pp. 427-451
1595. Vlad, Robert-Alexandru, Lenard Farczadi, CAMELIA TOMA, Silvia Imre, Paula Antonoaea, EMŐKE RÉDAI, Daniela-Lucia Muntean, and Adriana Ciurba. "CANNABIDIOL CONTENT EVALUATION IN COMMERCIAL DIETARY SUPPLEMENTS AND STABILITY IN OIL VEHICLE." *Studia Universitatis Babes-Bolyai, Chemia* 66, no. 2 (2021).
1596. Jones, Luke O., Leah Williams, Tasmin Boam, Martin Kalmes, Chidubem Oguike, and Fiona L. Hatton. "Cryogels: recent applications in 3D-bioprinting, injectable cryogels, drug delivery, and wound healing." *Beilstein Journal of Organic Chemistry* 17, no. 1 (2021): 2553-2569.
1597. Grifoni, L., Vanti, G., Donato, R., Sacco, C., Bilia, A.R., Promising Nanocarriers to Enhance Solubility and Bioavailability of Cannabidiol for a Plethora of Therapeutic Opportunities, *Molecules*, 2022, 27 (18), art. no. 6070, .
1598. Fu, X., Xu, S., Li, Z., Chen, K., Fan, H., Wang, Y., Xie, Z., Kou, L., Zhang, S., Enhanced Intramuscular Bioavailability of Cannabidiol Using Nanocrystals: Formulation, In Vitro Appraisal, and Pharmacokinetics, *AAPS PharmSciTech*, 2022, 23 (3), art. no. 85, .
1599. Mahmoudinoodezh, H., Telukutla, S.R., Bhangu, S.K., Bachari, A., Cavalieri, F., Mantri, N., The Transdermal Delivery of Therapeutic Cannabinoids, *Pharmaceutics*, 2022, 14 (2), art. no. 438, .
1600. Rebelatto, E.R.L., Rauber, G.S. and Caon, T., An update of nano-based drug delivery systems for cannabinoids: Biopharmaceutical aspects & therapeutic applications. *International Journal of Pharmaceutics*, 2023, 635, p.122727.
1601. Idumah, C.I., Recently emerging advancements in polymeric cryogel nanostructures and biomedical applications. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 2023, 72(16), pp.1307-1327.
1602. Ferreira, B.P., Costa, G., Mascarenhas-Melo, F., Pires, P.C., Heidarizadeh, F., Giram, P.S., Mazzola, P.G., Cabral, C., Veiga, F. and Paiva-Santos, A.C., Skin applications of cannabidiol: sources, effects, delivery systems, marketed formulations and safety. *Phytochemistry Reviews*, 2023, 22,781–828.
1603. Strnad, O., Šuman, J., Veverková, T., Sukupová, A., Cejnar, P., Hynek, R., Kronusová, O., Šach, J., Kaštánek, P., Ruml, T. and Viktorová, J., Cannabidiol nanoemulsion for eye treatment–Anti-inflammatory, wound healing activity and its bioavailability using in vitro human corneal substitute. *International Journal of Pharmaceutics*, 2023, 643, p.123202.
1604. Assadpour, E., Rezaei, A., Das, S.S., Krishna Rao, B.V., Singh, S.K., Kharazmi, M.S., Jha, N.K., Jha, S.K., Prieto, M.A. and Jafari, S.M., Cannabidiol-Loaded Nanocarriers and Their Therapeutic Applications. *Pharmaceutics*, 2023, 16(4), p.487.
1605. Hajizadeh, S., Application of composite cryogels in downstream processing-A review. *Reactive and Functional Polymers*, 2023, 191, p.105693.
1606. Omidian, H., Dey Chowdhury, S. and Babanejad, N., Cryogels: Advancing Biomaterials for Transformative Biomedical Applications. *Pharmaceutics*, 2023, 15(7), p.1836.
1607. Idumah, C.I., Nwuzor, I.C., Odera, S.R., Timothy, U.J., Ngenegbo, U. and Tanjung, F.A., 2024. Recent advances in polymeric hydrogel nanoarchitectures for drug delivery applications. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 73(1), pp.1-32.
1608. David, C., de Souza, J.F., Silva, A.F., Grazioli, G., Barboza, A.S., Lund, R.G., Fajardo, A.R. and Moraes, R.R., 2024. Cannabidiol-loaded microparticles embedded in a porous hydrogel matrix for biomedical applications. *Journal of Materials Science: Materials in Medicine*, 35(1), pp.1-16.

1609. El Bejjaji, S., Ramos-Yacasi, G., Suñer-Carbó, J., Mallandrich, M., Goršek, L., Quilchez, C. and Calpena, A.C., 2024. Nanocomposite Gels Loaded with Flurbiprofen: Characterization and Skin Permeability Assessment in Different Skin Species. *Gels*, 10(6), p.362.
- Georgy Grancharov, Mariya-Desislava Atanasova, Denitsa Aluani, Krassimira Yoncheva, Virginia Tzankova, Boryana Trusheva, Aleksander Forsy, Barbara Trzebicka, Petar D Petrov, *Functional block copolymers bearing pendant cinnamyl groups for enhanced solubilization of caffeic acid phenethyl ester*, *Polymer Journal*, 2020, 52, 435 - 447
1610. Sugiura, Kai, Toshiaki Sawada, Hiroshi Tanaka, and Takeshi Serizawa. "Enzyme-catalyzed propagation of cello-oligosaccharide chains from bifunctional oligomeric primers for the preparation of block co-oligomers and their crystalline assemblies." *Polymer Journal* (2021): 1-11.
1611. Birhan, Yihenew Simegniew, and Hsieh-Chih Tsai. "Recent developments in selenium-containing polymeric micelles: prospective stimuli, drug-release behaviors, and intrinsic anticancer activity." *Journal of Materials Chemistry B* 9, no. 34 (2021): 6770-6801.
1612. Baek, S. (2021). Selective Ion Transport Control and Single Molecule Dynamics in Nanopore Electrode Arrays, PhD Thesis, University of Notre Dame. <https://doi.org/10.7274/vm40xp7266g>
1613. Pyne, S., Paria, K., Optimization of extraction process parameters of caffeic acid from microalgae by supercritical carbon dioxide green technology, *BMC Chemistry*, 2022, 16 (1), art. no. 31.
- G. L Georgiev, D. Borisova, P.D. Petrov, *Super-macroporous composite cryogels based on biodegradable dextran and temperature-responsive poly (N-isopropylacrylamide)*, *Journal of Applied Polymer Science*, 2020, 137:e49301.
1614. Klivenko, A. N., B. Kh Mussabayeva, B. S. Gaisina, and A. N. Sabitova. "Biocompatible cryogels: preparation and application." *ХАБАРИШЫ* (2021): 4.
1615. Davidson-Rozenfeld, G., Chen, X., Qin, Y., Ouyang, Y., Sohn, Y.S., Li, Z., Nechushtai, R. and Willner, I., 2024. Stiffness-Switchable, Biocatalytic pH-Responsive DNA-Functionalized Polyacrylamide Cryogels and their Mechanical Applications. *Advanced Functional Materials*, 34(4), p.2306586.
- Yoncheva K., Hristova-Avakumova N., Hadjimitova V., Traykov T., Petrov P., *Evaluation of physicochemical and antioxidant properties of nanosized copolymeric micelles loaded with kaempferol*, *Pharmacia*, 2020, (2) 49-54
1616. Ma, Y., Liu, J., Cui, X., Hou, J., Yu, F., Wang, J., Wang, X., Chen, C., Tong, L., Hyaluronic Acid Modified Nanostructured Lipid Carrier for Targeting Delivery of Kaempferol to NSCLC: Preparation, Optimization, Characterization, and Performance Evaluation In Vitro, *Molecules*, 2022, 27 (14), art. no. 4553, .
1617. Yang, W., Xie, D., Liang, Y., Chen, N., Xiao, B., Duan, L., Wang, M., Multi-responsive fibroin-based nanoparticles enhance anti-inflammatory activity of kaempferol, *Journal of Drug Delivery Science and Technology*, 2022, 68, art. no. 103025, .
1618. Bangar, S.P., Chaudhary, V., Sharma, N., Bansal, V., Ozogul, F., Lorenzo, J.M., Kaempferol: A flavonoid with wider biological activities and its applications, *Critical Reviews in Food Science and Nutrition*, 2022, 63(28), 9580-9604.
1619. Mishra, S., Gandhi, D., Tiwari, R.R. and Rajasekaran, S., Beneficial role of kaempferol and its derivatives from different plant sources on respiratory diseases in experimental models. *Inflammopharmacology*, 2023, 31(5), pp.2311-2336.
1620. Serini, S., Trombino, S., Curcio, F., Sole, R., Cassano, R. and Calviello, G., Hyaluronic Acid-Mediated Phenolic Compound Nanodelivery for Cancer Therapy. *Pharmaceutics*, 2023, 15(6), p.1751.
1621. Ji, C., Khan, M.A., Chen, K. and Liang, L., Coating of DNA and DNA complexes on zein particles for the encapsulation and protection of kaempferol and  $\alpha$ -tocopherol. *Journal of Food Engineering*, 2023, 352, p.111520.
1622. Maha, H.L., Fidrianny, I. and Suciati, T., An updated review of Typhonium flagelliforme: phytochemical compound, pharmacological activities and the use of vitexin and isovitexin as flavonoid compound in cosmetics development. *Pharmacia*, 2023, 70(3), pp.673-680.
- Bozova N., Petrov P.D., *Highly elastic super-macroporous cryogels fabricated by thermally induced crosslinking of 2-hydroxyethylcellulose with citric acid in solid state*, *Molecules*, 2021, 26(21), 6370
1623. Tyshkunova, I.V., Poshina, D.N., Skorik, Y.A., Cellulose Cryogels as Promising Materials for Biomedical Applications, *International Journal of Molecular Sciences*, 2022, 23 (4), art. no. 2037.
1624. El-Wakil, N., Kamel, R., Mahmoud, A.A., Dufresne, A., Abouzeid, R.E., Abo El-Fadl, M.T. and Maged, A., 2023. Risedronate-loaded aerogel scaffolds for bone regeneration. *Drug Delivery*, 30(1), pp.51-63.
1625. Ciptawati, E., Takase, H., Watanabe, N.M., Okamoto, Y., Nur, H. and Umakoshi, H., 2024. Preparation and Characterization of Biodegradable Sponge-like Cryogel Particles of Chitosan via the Inverse Leidenfrost (iLF) Effect. *ACS omega*, 9(2), pp.2383-2390.

Gospodinova A., Nankov V., Tomov S., Redzheb M., Petrov P.D. *Extrusion bioprinting of hydroxyethylcellulose-based bioink for cervical tumor model*, *Carbohydrate Polymers*, **2021**, 260, 117793

1626. dos Santos, B.C., Noritomi, P.Y., da Silva, J.V.L., Maia, I.A., Manzini, B.M., Biological multiscale computational modeling: A promising tool for 3D bioprinting and tissue engineering, *Bioprinting*, 2022, 28, art. no. e00234, .
1627. Dai, X., Shao, Y., Tian, X., Cao, X., Ye, L., Gao, P., Cheng, H., Wang, X., Fusion between Glioma Stem Cells and Mesenchymal Stem Cells Promotes Malignant Progression in 3D-Bioprinted Models, *ACS Applied Materials and Interfaces*, 2022, 14 (31), pp. 35344-35356.
1628. Safhi, A.Y., Three-Dimensional (3D) Printing in Cancer Therapy and Diagnostics: Current Status and Future Perspectives, *Pharmaceuticals*, 2022, 15 (6), art. no. 678.
1629. Germain, N., Dhayer, M., Dekioui, S., Marchetti, P., Current Advances in 3D Bioprinting for Cancer Modeling and Personalized Medicine, *International Journal of Molecular Sciences*, 2022, 23 (7), art. no. 3432, .
1630. Fatimi, A., Okoro, O.V., Podstawczyk, D., Siminska-Stanny, J., Shavandi, A., Natural Hydrogel-Based Bio-Inks for 3D Bioprinting in Tissue Engineering: A Review, *Gels*, 2022, 8 (3), art. no. 179.
1631. Pinos, R., Sbrana, F.V., Scielzo, C., Bioprinting functional tissues: cell types and a focus on cancer modeling, In *Bioprinting: From Multidisciplinary Design to Emerging Opportunities*, 2022, pp. 247-269.
1632. Varghese, R., Sood, P., Salvi, S., Karsiya, J., Kumar, D., 3D printing in the pharmaceutical sector: Advances and evidences, *Sensors International*, 2022, 3, art. no. 100177, .
1633. Kurmyshkina, O.V., Bogdanova, A.A., Kovchur, P.I., Fetyukov, A.I., Volkova, T.O., RNA Sequencing and Cell Models of Virus-Associated Cancer (Review), *Sovremennye Tehnologii v Medicine*, 2022, 14 (1), pp. 64-82.
1634. Frances-Herrero, E., Lopez, R., Hellström, M., de Miguel-Gómez, L., Herraiz, S., Brännström, M., Pellicer, A. and Cervello, L., 2022. Bioengineering trends in female reproduction: a systematic review. *Human Reproduction Update*, 28(6), pp.798-837.
1635. Varghese, R., Salvi, S., Sood, P., Karsiya, J. and Kumar, D., 2022. 3D printed medicine for the management of chronic diseases: The road less travelled. *Annals of 3D Printed Medicine*, 5, p.100043.
1636. Raees, S., Ullah, F., Javed, F., Akil, H.M., Jadoon, M., Safdar, M., Din, I.U., Alotaibi, M.A., Alharthi, A.I., Bakht, M.A. and Ahmad, A., 2023. Classification, processing, and applications of bioink and 3D bioprinting: A detailed review. *International journal of biological macromolecules*, p.123476.
1637. Frankowski, J., Kurzątkowska, M., Sobczak, M. and Piotrowska, U., 2023. Utilization of 3D bioprinting technology in creating human tissue and organoid models for preclinical drug research-state-of-the-art. *International Journal of Pharmaceutics*, p.123313.
1638. Elhadad, A.A., Rosa-Sainz, A., Canete, R., Peralta, E., Begines, B., Balbuena, M., Alcudia, A. and Torres, Y., 2023. Applications and multidisciplinary perspective on 3D printing techniques: Recent developments and future trends. *Materials Science and Engineering: R: Reports*, 156, p.100760.
1639. Xiaorui, L., Fuyin, Z., Xudong, W., Xuezheng, G., Shudong, Z., Hui, L., Dandan, D., Yubing, L., Lizhen, W. and Yubo, F., 2023. 1Biomaterial inks for extrusion-based 3D bioprinting: Property, classification, modification, and selection. *International journal of bioprinting*, 9(2).
1640. Mi, X., Su, Z., Yue, X., Ren, Y., Yang, X., Qiang, L., Kong, W., Ma, Z., Zhang, C. and Wang, J., 2023. 3D bioprinting tumor models mimic the tumor microenvironment for drug screening. *Biomaterials Science*. 2023,11, 3813-3827
1641. Hojabri, M., Tayebi, T., Kasravi, M., Aghdaee, A., Ahmadi, A., Mazloomnejad, R., Tarasi, R., Shaabani, A., Bahrami, S. and Niknejad, H., 2023. Wet-spinnability and crosslinked Fiber properties of alginate/hydroxyethyl cellulose with varied proportion for potential use in tendon tissue engineering. *International Journal of Biological Macromolecules*, 240, p.124492.
1642. Wang, J., Cui, Z. and Maniruzzaman, M., 2023. Bioprinting: A focus on improving bioink printability and cell performance based on different process parameters. *International Journal of Pharmaceutics*, 640, p.123020.
1643. Parodi, I., Di Lisa, D., Pastorino, L., Scaglione, S. and Fato, M.M., 2023. 3D Bioprinting as a Powerful Technique for Recreating the Tumor Microenvironment. *Gels*, 9(6), p.482.
1644. Wang, Y., Ding, C., Wu, S., Liu, Y., Guo, Y., Wen, G. and Zhang, L., 2023. The study of near-net shape lithium aluminosilicate glass-ceramics by direct ink writing. *Journal of the European Ceramic Society*, 43(13), pp.5662-5670.
1645. Datta, S., 2023. Advantage of Alginate Bioinks in Biofabrication for Various Tissue Engineering Applications. *International Journal of Polymer Science*, 2023. Article ID 6661452.
1646. Muehlenfeld, C., Duffy, P., Yang, F., Zermeño-Pérez, D. and Durig, T., 2023. Polymers for Pharmaceutical 3D Printing: Printability and Critical Insight into Material Properties. In *3D Printing: Emerging Technologies and Functionality of Polymeric Excipients in Drug Product Development* (pp. 97-137). Cham: Springer International Publishing.

1647. Ji, Y., Wang, L., Xue, Q., Luo, Z. and Zhang, B., 2023. 3D Bioprinting Technology and its Application to Bladder Tumor Models: A Review. *Systematic Reviews in Pharmacy*, 14(10).
1648. Kartal, Y. and Daş, M.T., 2023. Derleme: Algılayıcı ve biyomalzeme üretiminde eklemeli imalat. *Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi*, 38(4), pp.2191-2204.
1649. Diaz-Rodriguez, P. and Diaz-Gomez, L., 2023. Polymers for Bioinks Development. In *3D Printing and Bioprinting for Pharmaceutical and Medical Applications* (pp. 101-122). CRC Press.
1650. Kartal, Y. and Daş, M.T., 2023. Algılayıcı ve biyomalzeme üretiminde eklemeli imalatın gelişimine genel bir bakış. *Journal of the Faculty of Engineering & Architecture of Gazi University/Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi*, 38(4).
1651. Kafili, G., Tamjid, E., Niknejad, H. and Simchi, A., 2024. Development of bioinspired nanocomposite bioinks based on decellularized amniotic membrane and hydroxyethyl cellulose for skin tissue engineering. *Cellulose*, pp.1-25.
1652. Muehlenfeld, C., Duffy, P., Yang, F., Zermeno Pérez, D., El-Saleh, F. and Durig, T., 2024. Excipients in Pharmaceutical Additive Manufacturing: A Comprehensive Exploration of Polymeric Material Selection for Enhanced 3D Printing. *Pharmaceutics*, 16(3), p.317.
1653. Sun, Q., Yao, J., Wei, S., Li, X. and Wang, W., 2024. The Value of Near-Infrared Multifunctional Nanoprobe Combined with Artificial Intelligence Microsensor Technology in Molecular Diagnosis for Gastric Cancer. *Journal of Biomedical Nanotechnology*, 20(2), pp.351-358.
- Kamenova K., Grancharov G., Tzankov B., Aluani D., Tzankova V., Tzankov S., Yoncheva K., Petrov P.D., *Mixed micellar system for codelivery of doxorubicin and caffeic acid phenethyl ester: design and enhanced antitumor activity*, *Polymer Journal*, 2021, (3) 471-479
1654. Du, K., Xia, Q.-S., Zhang, L.-H., Wen, J., Huang, Z., Zhu, Z.-S., Copolymers induced co-assembly for constructing novel micellar carriers by computer simulations, *Chemical Physics Letters*, 2022, 803, art. no. 139874,
- Y Danov, D Georgieva, R Mihaylova, B Kostova, PD Petrov, *Cryogel Carriers Comprising  $\beta$ -Cyclodextrin Moieties for Improved Solubilization and Delivery of Aripiprazole*, *Macromolecular Chemistry and Physics*, 2021, 2100004
1655. Jones, Luke O., Leah Williams, Tasmin Boam, Martin Kalmet, Chidubem Oguike, and Fiona L. Hatton. "Cryogels: recent applications in 3D-bioprinting, injectable cryogels, drug delivery, and wound healing." *Beilstein Journal of Organic Chemistry* 17, no. 1 (2021): 2553-2569.
1656. Ari, B., Demirci, S., Ayyala, R.S., Salih, B., Sahiner, N., Superporous poly( $\beta$ -Cyclodextrin) cryogels as promising materials for simultaneous delivery of both hydrophilic and hydrophobic drugs *European Polymer Journal*, 2022, 176, art. no. 111399, .
1657. Bergonzi, M.C., Bilia, A.R., Landucci, E., Applications of innovative technologies to the delivery of antipsychotics, *Drug Discovery Today*, 2022, 27 (2), pp. 401-421.
1658. Upadhayay, V.K., Naitam, M.G., Ghosh, S., Patel, V.K., Sharma, A., Chandra, A.K. and Taj, G., 2023. Techniques for Integrating Nanotechnology in Agriculture. In *Advances in Nanotechnology for Smart Agriculture* (pp. 19-40). CRC Press.
- Velikova V., Petrova N., Kovacs L., Petrova A., Koleva D., Tsonev T., Taneva S., (...), Krumova S., *Single-walled carbon nanotubes modify leaf micromorphology, chloroplast ultrastructure and photosynthetic activity of pea plants*, *International Journal of Molecular Sciences*, 2021, 22(9), 4878.
1659. Mousavi, S.F., Roein, Z., Hekmatara, S.H., Multi-walled carbon nanotubes wrapped with polyvinylpyrrolidone can control the leaf yellowing of *Alstroemeria* cut flowers, *Scientific Reports*, 2022, 12 (1), art. no. 14232, .
1660. Gieczewska, K.B., Myśliwa-Kurczel, B., Grzyb, J., Photosynthetic Reactions: From Molecules to Function, and from Simple Models to Complex Systems, *International Journal of Molecular Sciences*, 2022, 23 (19), art. no. 11180,
1661. Talreja N, Chauhan D, Mangalaraja RV, Rizvi PQ, Ashfaq M. Polymeric Composites: A Promising Tool for Enhancing Photosynthetic Efficiency of Crops. In *Metabolic Engineering in Plants 2022* (pp. 341-357). Springer
1662. Irsad NT, Chauhan D, Mangalaraja RV, Rizvi PQ, Ashfaq M. Polymeric Composites: A Promising Tool for Enhancing Photosynthetic Efficiency of Crops. In *Metabolic Engineering in Plants*, 2022, p 341-357. Springer
1663. Wu, Q., Fan, C., Wang, H., Han, Y., Tai, F., Wu, J., Li, H. and He, R., 2023. Biphasic impacts of graphite-derived engineering carbon-based nanomaterials on plant performance: Effectiveness vs. nanotoxicity. *Advanced Agrochem.* 2023, 2(2), 113-126.
1664. Lei, Y., Huang, D., Zhou, W., Wang, G., Xiao, R., Xu, W., Huang, H., Li, S., Shen, L. and Ren, Y., 2023. Combining phytoremediation with carbon-based materials under carbon neutral background: Is it a close step to sustainable restoration?. *Critical Reviews in Environmental Science and Technology*, pp.1-22.
1665. Wu, M., Su, H., Li, C., Fu, Z., Wu, F., Yang, J. and Wang, L., 2023. Effects of foliar application of single-walled carbon nanotubes on carbohydrate metabolism in crabapple plants. *Plant Physiology and Biochemistry*, 194, pp.214-222.
1666. Cheng, J., Li, X., Ding, C., Feng, Y., Hou, P., Xue, L., Yang, L. and He, S., 2023. gC 3 N 4 promotes agro-ecosystem productivity: a case study for rice. *Environmental Science: Nano*, 10(8), pp.2132-2140.

1667. Dehghanian, Z., Lajayer, B.A., Atigh, Z.B.Q., Nayeri, S., Ahmadabadi, M., Taghipour, L., Senapathi, V., Astatkie, T. and Price, G.W., 2023. Micro (nano) plastics uptake, toxicity and detoxification in plants: Challenges and prospects. *Ecotoxicology and Environmental Safety*, 268, p.115676.
1668. Oliveira, H.C., Seabra, A.B., Kondak, S., Adedokun, O.P. and Kolbert, Z., 2023. Multilevel approach to plant–nanomaterial relationships: from cells to living ecosystems. *Journal of Experimental Botany*, 2023, 74(12), 3406–3424.
1669. Komarova, T., Ilina, I., Taliansky, M. and Ershova, N., 2023. Nanoplatforms for the Delivery of Nucleic Acids into Plant Cells. *International Journal of Molecular Sciences*, 24(23), p.16665.
1670. Roy, I., 2023. Interactions of Nanoparticles with Plants: Accumulation and Effects. *Bioinspired and Green Synthesis of Nanostructures: A Sustainable Approach*, pp.157-188.
1671. Sławski, J., Maciejewski, J., Szukiewicz, R., Gieczewska, K. and Grzyb, J., 2023. Quantum Dots Assembled with Photosynthetic Antennae on a Carbon Nanotube Platform-a Nanohybrid for Enhancement of Light Energy Harvesting. Available at SSRN 4418787.
1672. Upadhayay, V.K., Naitam, M.G., Ghosh, S., Patel, V.K., Sharma, A., Chandra, A.K. and Taj, G., 2023. 2 Techniques for Integrating Nanotechnology. *Advances in Nanotechnology for Smart Agriculture: Techniques and Applications*, p.19.
1673. Sadak, M.S., Al Ashkar, N.M. and Bakry, B.A., 2023. Role of carbon nano tubes for improving drought tolerance via upregulation of physiological attributes processes of peanut plant grown in sandy soils. *Research Square*, <https://doi.org/10.21203/rs.3.rs-3225693/v1>
1674. Chen, J., Zhu, Y., Song, K. and Ding, W., 2023. Research Progress on Effects of Engineered Nanomaterials on Higher Plant Growth. *Chinese Bulletin of Botany*, 2023, 58(5): 813-830.
1675. Upadhayay, V.K., Naitam, M.G., Ghosh, S., Patel, V.K., Sharma, A., Chandra, A.K. and Taj, G., 2023. Techniques for Integrating Nanotechnology in Agriculture. In *Advances in Nanotechnology for Smart Agriculture* (pp. 19-40). CRC Press.
1676. Sigala-Aguilar, N.A., López, M.G. and Fernández-Luqueño, F., 2024. Carbon-based nanomaterials as inducers of biocompounds in plants: Potential risks and perspectives. *Plant Physiology and Biochemistry*, p.108753.
1677. Wani, A.K., Khan, Z., Sena, S., Akhtar, N., Alreshdi, M.A., Yadav, K.K., Alkahtani, A.M., Rahayu, F., Tafakresnanto, C., Latifah, E. and Hariyono, B., 2024. Carbon nanotubes in plant dynamics: unravelling multifaceted roles and phytotoxic implications. *Plant Physiology and Biochemistry*, p.108628.
1678. Cota-Ungson, D., González-García, Y., Pérez-Alvarez, M., Cadenas-Pliego, G., Alpuche-Solís, Á.G. and Juárez-Maldonado, A., 2024. Graphene-copper nanocomposites improve fruit quality and the content of bioactive compounds in tomato. *Scientia Horticulturae*, 330, p.113080.
1679. Bakry, B.A., Sadak, M.S., Al Ashkar, N.M., Ibrahim, O.M., Okla, M.K. and El-Tahan, A.M., 2024. The Role of Carbon Nanotubes in Improving Drought Tolerance via Upregulation of the Physiological Processes of Peanut Plants Grown in Sandy Soils. *Agronomy*, 14(3), p.611.
1680. Pal, A.K., Aggrawal, K., Chaubey, K.K., Yadav, S., Sharma, S., Kumari, A., Saxena, V., Shivu, S. and Sharma, L.K., 2024. Smart Carbon Nanomaterials and Their Effect on the Antioxidant System of Plants. In *Carbon-Based Nanomaterials: Synthesis, Agricultural, Biomedical, and Environmental Interventions* (pp. 83-103). Singapore: Springer Nature Singapore.
- Petrova N., Paunov M., Petrov P., Velikova V., Goltsev V., Krumova S., *Polymer-modified single-walled carbon nanotubes affect photosystem II photochemistry, intersystem electron transport carriers and photosystem i end acceptors in pea plants*, *Molecules* **2021**, 26(19), 5958
1681. Shanker, A.K., Amirineni, S., Bhanu, D., Yadav, S.K., Jyothilakshmi, N., Vanaja, M., Singh, J., Sarkar, B., Maheswari, M., Singh, V.K., High-resolution dissection of photosystem II electron transport reveals differential response to water deficit and heat stress in isolation and combination in pearl millet [*Pennisetum glaucum* (L.) R. Br.], *Frontiers in Plant Science*, 2022, 13, art. no. 892676.
1682. Wu, M., Su, H., Li, C., Fu, Z., Wu, F., Yang, J. and Wang, L., 2023. Effects of foliar application of single-walled carbon nanotubes on carbohydrate metabolism in crabapple plants. *Plant Physiology and Biochemistry*, 194, pp.214-222.
1683. Zharmukhamedov, S.K., Shabanova, M.S., Huseynova, I.M., Karacan, M.S., Karacan, N., Akar, H., Kreslavski, V.D., Alharby, H.F., Bruce, B.D. and Allakhverdiev, S.I., 2023. Probing the Influence of Novel Organometallic Copper (II) Complexes on Spinach PSII Photochemistry Using OJIP Fluorescence Transient Measurements. *Biomolecules*, 13(7), p.1058.
- Momekova D., Danov Y., Momekov G., Ivanov E., Petrov P., *Polysaccharide cryogels containing  $\beta$ -cyclodextrin for the delivery of cannabidiol*, *Pharmaceutics*, **2021**, 13(11), 1774
1684. Ari, B., Demirci, S., Ayyala, R.S., Salih, B., Sahiner, N., Superporous poly( $\beta$ -Cyclodextrin) cryogels as promising materials for simultaneous delivery of both hydrophilic and hydrophobic drugs, *European Polymer Journal*, 2022, 176, art. no. 111399, .



1685. Tannous, M., Lucia Appleton, S., Hoti, G., Caldera, F., Argenziano, M., Monfared, Y.K., Matencio, A., Trotta, F., Cavalli, R., Dextrin-Based Nanohydrogels for Rokitamycin Prolonged Topical Delivery, *Gels*, 2022, 8 (8), art. no. 490.
1686. Mahmoudinoodezh, H., Telukutla, S.R., Bhangu, S.K., Bachari, A., Cavalieri, F., Mantri, N., The Transdermal Delivery of Therapeutic Cannabinoids, *Pharmaceutics*, 2022, 14 (2), art. no. 438.
1687. Ferreira, B.P., Costa, G., Mascarenhas-Melo, F., Pires, P.C., Heidarizadeh, F., Giram, P.S., Mazzola, P.G., Cabral, C., Veiga, F. and Paiva-Santos, A.C., 2023. Skin applications of cannabidiol: sources, effects, delivery systems, marketed formulations and safety. *Phytochemistry Reviews*, pp.1-48.
1688. Assadpour, E., Rezaei, A., Das, S.S., Krishna Rao, B.V., Singh, S.K., Kharazmi, M.S., Jha, N.K., Jha, S.K., Prieto, M.A. and Jafari, S.M., 2023. Cannabidiol-Loaded Nanocarriers and Their Therapeutic Applications. *Pharmaceutics*, 16(4), p.487.
1689. Zagni, C., Coco, A., Mecca, T., Curcuruto, G., Patamia, V., Mangano, K., Rescifina, A. and Carroccio, S.C., 2023. Sponge-like macroporous cyclodextrin-based cryogels for controlled drug delivery. *Materials Chemistry Frontiers*. 2023, 7, 2693-2705
1690. Yilmaz, A.S. and Sahiner, N., 2023. Super porous  $\alpha$ -,  $\beta$ -,  $\gamma$ -cyclodextrin cryogels with high active agent loading and controllable release profiles. *Journal of Applied Polymer Science*, p.e54822.
1691. Omidian, H., Dey Chowdhury, S. and Babanejad, N., 2023. Cryogels: Advancing biomaterials for transformative biomedical applications. *Pharmaceutics*, 15(7), p.1836.
1692. Yang, T.X., Li, H., Zhu, Y., Gao, Y., Lv, H.N., Zha, S.H., Sun, X.L. and Zhao, Q.S., 2024. Preparation and characterisation of wheat starch-based aerogels for procyanidin encapsulation to enhance stability. *New Journal of Chemistry*, 48(1), pp.79-88.
1693. David, C., de Souza, J.F., Silva, A.F., Grazioli, G., Barboza, A.S., Lund, R.G., Fajardo, A.R. and Moraes, R.R., 2024. Cannabidiol-loaded microparticles embedded in a porous hydrogel matrix for biomedical applications. *Journal of Materials Science: Materials in Medicine*, 35(1), pp.1-16.
1694. Yilmaz, A.S. and Sahiner, N., 2024. Super porous  $\alpha$ -,  $\beta$ -,  $\gamma$ -cyclodextrin cryogels with high active agent loading and controllable release profiles. *Journal of Applied Polymer Science*, 141(3), p.e54822.
1695. Júnior, J.A.C.N., Frank, L.A., Santos, A.B., Santos, A.M., de Araújo Andrade, T., dos Passos Menezes, P., Contri, R.V. and Serafini, M.R., 2024. A Patent Review on the Use of Cyclodextrin Inclusion Complexes to Enhance Physicochemical and Pharmacological Properties in Antidepressant Drugs. *Critical Reviews™ in Therapeutic Drug Carrier Systems*, 41(6).
- Momekova D.B., Gugleva V.E., Petrov P.D., *Nanoarchitectonics of Multifunctional Niosomes for Advanced Drug Delivery*, *ACS Omega*, 2021, (49) 33265-33273
1696. Shinu, P., Nair, A.B., Kumari, B., Jacob, S., Kumar, M., Tiwari, A., Tiwari, V., Venugopala, K.N., Attimarad, M., Nagaraja, S., Recent Advances and Appropriate use of Niosomes for the Treatment of Skin Cancer, *Indian Journal of Pharmaceutical Education and Research*, 2022, 56 (4), pp. 1-14.
1697. Das, B., Nayak, A.K., Mallick, S., Lipid-based nanocarriers for ocular drug delivery: An updated review, *Journal of Drug Delivery Science and Technology*, 2022, 76, art. no. 103780, .
1698. Yasamineh, S., Yasamineh, P., Ghafouri Kalajahi, H., Gholizadeh, O., Yekanipour, Z., Afkhami, H., Eslami, M., Hossein Kheirkhah, A., Taghizadeh, M., Yazdani, Y., Dadashpour, M., A state-of-the-art review on the recent advances of niosomes as a targeted drug delivery system, *International Journal of Pharmaceutics*, 2022, 624, art. no. 121878, .
1699. Shen, X., Song, J., Kawakami, K., Ariga, K., Molecule-to-Material-to-Bio Nanoarchitectonics with Biomedical Fullerene Nanoparticles, *Materials*, 2022, 15 (15), art. no. 5404, .
1700. Oviedo, L.R., Oviedo, V.R., Martins, M.O., Fagan, S.B., da Silva, W.L., Nanoarchitectonics: the role of artificial intelligence in the design and application of nanoarchitectures, *Journal of Nanoparticle Research*, 2022, 24 (8), art. no. 157, .
1701. Kuznetsova, D.A., Vasilieva, E.A., Kuznetsov, D.M., Lenina, O.A., Filippov, S.K., Petrov, K.A., Zakharova, L.Y., Sinyashin, O.G., Enhancement of the Transdermal Delivery of Nonsteroidal Anti-inflammatory Drugs Using Liposomes Containing Cationic Surfactants, *ACS Omega*, 2022, 7 (29), pp. 25741-25750.
1702. Patel, K.D., Barrios Silva, L., Park, Y., Shakouri, T., Keskin-Erdogan, Z., Sawadkar, P., Cho, K.J., Knowles, J.C., Chau, D.Y.S., Kim, H.-W., Recent advances in drug delivery systems for glaucoma treatment, *Materials Today Nano*, 2022, 18, art. no. 100178, .
1703. Ariga, K., Biomimetic and Biological Nanoarchitectonics, *International Journal of Molecular Sciences*, 2022, 23 (7), art. no. 3577, .
1704. Sargazi S, Barani M, Zargari F, Arshad R, K Sharma R. Preparation of pH-Responsive Vesicular Doxorubicin: Evidence from In-Vitro and In-Silico Evaluations. *Current Applied Sciences*. 2022, 2(1), 31-48.



1705. Miatmoko A, Faradisa AA, Jauhari AA, Hariawan BS, Cahyani DM, Plumeriastuti H, Sari R, Hendradi E. The effectiveness of ursolic acid niosomes with chitosan coating for prevention of liver damage in mice induced by n-nitrosodiethylamine. *Scientific Reports*. 2022, 12, 21397.
1706. Wei, T., 2022. Oral Delivery of Glutathione: the Antioxidant Function, the Barriers and the Strategies, Doctoral dissertation, The University of Auckland. <https://researchspace.auckland.ac.nz/bitstream/handle/2292/63880/Wei-2022-thesis.pdf?sequence=4&isAllowed=y>
1707. Das, C.A., Kumar, V.G., Dhas, T.S., Karthick, V. and Kumar, C.V., 2023. Nanomaterials in anticancer applications and their mechanism of action-A review. *Nanomedicine: Nanotechnology, Biology and Medicine*, 47, p.102613.
1708. Barani, M., Paknia, F., Roostaei, M., Kavyani, B., Kalantar-Neyestanaki, D., Ajalli, N. and Amirbeigi, A., 2023. Niosome as an effective nanoscale solution for the treatment of microbial infections. *BioMed Research International*, 2023. Article ID 9933283
1709. Zaer, M., Moeinzadeh, A., Abolhassani, H., Rostami, N., Yarak, M.T., Seyedi, S.A., Nabipoorashrafi, S.A., Bashiri, Z., Moeinabadi-Bidgoli, K., Moradbeygi, F. and Farmani, A.R., 2023. Doxorubicin-loaded Niosomes functionalized with gelatine and alginate as pH-responsive drug delivery system: a 3D printing approach. *International Journal of Biological Macromolecules*, 253, p.126808.
1710. Asghari Lalami, Z., Tafvizi, F., Naseh, V. and Salehipour, M., 2023. Fabrication, optimization, and characterization of pH-responsive PEGylated nanoniosomes containing gingerol for enhanced treatment of breast cancer. *Naunyn-Schmiedeberg's Archives of Pharmacology*, 396(12), pp.3867-3886.
1711. Shafiei, G., Jafari-Gharabaghlo, D., Farhoudi-Sefidan-Jadid, M., Alizadeh, E., Fathi, M. and Zarghami, N., 2023. Targeted delivery of silibinin via magnetic niosomal nanoparticles: potential application in treatment of colon cancer cells. *Frontiers in Pharmacology*, 2023; 14: 1174120.
1712. Sharafshadeh, M.S., Tafvizi, F., Khodarahmi, P. and Ehteshami, S., 2023. Preparation and physicochemical properties of cisplatin and doxorubicin encapsulated by niosome alginate nanocarrier for cancer therapy. *International Journal of Biological Macromolecules*, 235, p.123686.
1713. Firouzi Amandi, A., Jokar, E., Eslami, M., Dadashpour, M., Rezaie, M., Yazdani, Y. and Nejati, B., 2023. Enhanced anti-cancer effect of artemisinin and curcumin-loaded niosomal nanoparticles against human colon cancer cells. *Medical Oncology*, 40(6), p.170.
1714. Al Jayoush, A.R., Hassan, H.A., Asiri, H., Jafar, M., Saeed, R., Harati, R. and Haider, M., 2023. Niosomes for nose-to-brain delivery: a non-invasive versatile carrier system for drug delivery in neurodegenerative diseases. *Journal of Drug Delivery Science and Technology*, p.105007.
1715. Shrestha, L.K., Shrestha, R.G., Shahi, S., Gnawali, C.L., Adhikari, M.P., Bhadra, B.N. and Ariga, K., 2023. Biomass nanoarchitectonics for supercapacitor applications. *Journal of Oleo Science*, 72(1), pp.11-32.
1716. Saeidi, Z., Giti, R., Rostami, M. and Mohammadi, F., 2023. Nanotechnology-Based Drug Delivery Systems in the Transdermal Treatment of Melanoma. *Advanced Pharmaceutical Bulletin*, 13(4), p.646.
1717. Roostaei, M., Derakhshani, A., Mirhosseini, H., Mofakham, E.B., Fathi-Karkan, S., Mirinejad, S., Sargazi, S. and Barani, M., 2023. Composition, Preparation Methods, and Applications of Nanoniosomes as Codelivery Systems: A Review of Emerging Therapies with Emphasis on Cancer. *Nanoscale*.
1718. Bakand, A., Moghaddam, S.V., Naseriolsami, M., André, H., Mousavi-Niri, N. and Alizadeh, E., 2023. Efficient targeting of HIF-1 $\alpha$  mediated by YC-1 and PX-12 encapsulated niosomes: potential application in colon cancer therapy. *Journal of Biological Engineering*, 17(1), p.58.
1719. Fahmy, S.A., Nasr, S., Ramzy, A., Dawood, A.S., Abdelnaser, A. and Azzazy, H.M.E.S., 2023. Cytotoxic and Antioxidative Effects of Geranium Oil and Ascorbic Acid Coloaded in Niosomes against MCF-7 Breast Cancer Cells. *ACS Omega*. 2023, 8, 25, 22774–22782
1720. Paun, R.A., Jurchuk, S. and Tabrizian, M., 2023. A landscape of recent advances in lipid nanoparticles and their translational potential for the treatment of solid tumors. *Bioengineering & Translational Medicine*, p.e10601.
1721. Arslanov, V.V., Ermakova, E.V., Krylov, D.I. and Popova, O.O., 2023. On the relationship between the properties of planar structures of non-ionic surfactants and their vesicular analogues–Niosomes. *Journal of Colloid and Interface Science*, 640, pp.281-295.
1722. Burrini, N., D'Ambrosio, M., Gentili, M., Giaquinto, R., Settimelli, V., Luceri, C., Cirri, M. and Francesconi, O., 2023. Niosomes Functionalized with a Synthetic Carbohydrate Binding Agent for Mannose-Targeted Doxorubicin Delivery. *Pharmaceutics*, 15(1), p.235.

1723. Abu-Huwaij, R., Alkarawi, A., Salman, D. and Alkarawi, F., 2023. Exploring the use of niosomes in cosmetics for efficient dermal drug delivery. *Pharmaceutical Development and Technology*, 28(7), pp.708-718.
1724. Izhar, M.P., Hafeez, A., Kushwaha, P. and Simrah, 2023. Drug Delivery Through Niosomes: A Comprehensive Review with Therapeutic Applications. *Journal of Cluster Science*, pp.1-17.
1725. Tyagi, R., Waheed, A., Kumar, N., Ahad, A., Bin Jordan, Y.A., Mujeeb, M., Kumar, A., Naved, T. and Madan, S., 2023. Formulation and Evaluation of Plumbagin-Loaded Niosomes for an Antidiabetic Study: Optimization and In Vitro Evaluation. *Pharmaceuticals*, 16(8), p.1169.
1726. Zakharova, L.Y., Maganova, F.I., Sinyashin, K.O., Gaynanova, G.A., Mirgorodskaya, A.B., Vasilieva, E.A. and Sinyashin, O.G., 2023. Supramolecular Strategy for the Design of Nanocarriers for Drugs and Natural Bioactives: Current State of the Art (A Review). *Russian Journal of General Chemistry*, 93(7), pp.1867-1899.
1727. Kulkarni, N.S., 2023. A Concise Literature Review on Niosome Drug Delivery from Ancient to Recent. *Asian Journal of Pharmaceutics (AJP)*, 17(1).
1728. Liu, D., Duhamel, J. and Gauthier, M., Synthesis and Characterization of Furan-Based Non-Ionic Surfactants (fbnios). *Langmuir*. 2023, 39, 26, 8974–8983
1729. Datta, D., Bandi, S.P., Colaco, V., Dhas, N., Reddy, D.S. and Vora, L.K., 2024. Fostering the unleashing potential of nanocarriers-mediated delivery of ocular therapeutics. *International Journal of Pharmaceutics*, p.124192.
1730. Ariga, K., Song, J. and Kawakami, K., 2024. Molecular machines working at interfaces: physics, chemistry, evolution and nanoarchitectonics. *Physical Chemistry Chemical Physics*, 26(18), pp.13532-13560.
1731. Xu, X., Tang, Q., Gao, Y., Chen, S., Yu, Y., Qian, H., McClements, D.J., Cao, C. and Yuan, B., 2024. Recent developments in the fabrication of food microparticles and nanoparticles using microfluidic systems. *Critical Reviews in Food Science and Nutrition*, pp.1-15.
1732. Baldino, L., Riccardi, D. and Reverchon, E., 2024. Production of PEGylated Vancomycin-Loaded Niosomes by a Continuous Supercritical CO<sub>2</sub> Assisted Process. *Nanomaterials*, 14(10), p.846.
1733. Paun, R.A., Jurchuk, S. and Tabrizian, M., 2024. A landscape of recent advances in lipid nanoparticles and their translational potential for the treatment of solid tumors. *Bioengineering & Translational Medicine*, 9(2), p.e10601.
1734. Hajinezhad, M.R., Roostaei, M., Nikfarjam, Z., Rastegar, S., Sargazi, G., Barani, M. and Sargazi, S., 2024. Exploring the potential of silymarin-loaded nanovesicles as an effective drug delivery system for cancer therapy: in vivo, in vitro, and in silico experiments. *Naunyn-Schmiedeberg's Archives of Pharmacology*, pp.1-20.
1735. Albakr, L., Du, H., Zhang, X., Kathuria, H., Fahmi Anwar-Fadzil, A., Wheate, N.J. and Kang, L., 2024. Progress in Lipid and Inorganic Nanocarriers for Enhanced Skin Drug Delivery. *Advanced NanoBiomed Research*, p.2400003.
1736. Singh, S., Tiwary, N., Sharma, N., Behl, T., Antil, A., Anwer, M.K., Ramniwas, S., Sachdeva, M., Elossaily, G.M., Gulati, M. and Ohja, S., 2024. Integrating Nanotechnological Advancements of Disease-Modifying Anti-Rheumatic Drugs into Rheumatoid Arthritis Management. *Pharmaceuticals*, 17(2), p.248.
- K Kamenova, G Grancharov, V Kortenova, PD Petrov, Redox-Responsive Crosslinked Mixed Micelles for Controllable Release of Caffeic Acid Phenethyl Ester, *Pharmaceutics* 2022, 14 (3), 679
1737. Zandieh, M.A., Farahani, M.H., Daryab, M., Motahari, A., Gholami, S., Salmani, F., Karimi, F., Samaei, S.S., Rezaee, A., Rahmanian, P. and Khorrami, R., 2023. Stimuli-responsive (nano) architectures for phytochemical delivery in cancer therapy. *Biomedicine & Pharmacotherapy*, 166, p.115283.
1738. Hughes, K.A., Misra, B., Maghareh, M. and Bobbala, S., 2023. Use of stimulatory responsive soft nanoparticles for intracellular drug delivery. *Nano Research*, pp.1-17.
1739. Kumar, S.S., Harikrishnan, K.K., Urmila, S.P., Gauri, V., Saritha, A. and Gangopadhyay, M., 2023. Comprehensive review of Pluronic® polymers of different shapes with prominent applications in photodynamic therapy. *European Polymer Journal*, 200, p.112534.
1740. Szewczyk-Łagodzińska, M., Plichta, A., Dębowski, M., Kowalczyk, S., Iuliano, A. and Florjańczyk, Z., 2023. Recent Advances in the Application of ATRP in the Synthesis of Drug Delivery Systems. *Polymers*, 15(5), p.1234.
1741. Gerardos, A.M., Balafouti, A. and Pispas, S., 2023. Mixed Copolymer Micelles for Nanomedicine. *Nanomanufacturing*, 3(2), pp.233-247.
1742. Maboudi, A.H., Lotfipour, M.H., Rasouli, M., Azhdari, M.H., MacLoughlin, R., Bekeschus, S. and Doroudian, M., 2024. Micelle-based nanoparticles with stimuli-responsive properties for drug delivery. *Nanotechnology Reviews*, 13(1), p.20230218.

Gugleva, V., Michailova, V., Mihaylova, R., Momekov, G., Zaharieva, M.M., Najdenski, H., Petrov, P., Rangelov, S., Forys, A., Trzebicka, B., Momekova, D., Formulation and Evaluation of Hybrid Niosomal In Situ Gel for Intravesical Co-Delivery of Curcumin and Gentamicin Sulfate, *Pharmaceutics*, 2022, 14 (4), art. no. 747

1743. Pourmadadi, M., Abbasi, P., Eshaghi, M.M., Bakhshi, A., Ezra Manicum, A.-L., Rahdar, A., Pandey, S., Jadoun, S., Díez-Pascual, A.M. Curcumin delivery and co-delivery based on nanomaterials as an effective approach for cancer therapy (2022) *Journal of Drug Delivery Science and Technology*, 78, art. no. 103982, .
1744. Yasamineh, S., Yasamineh, P., Ghafouri Kalajahi, H., Gholizadeh, O., Yekanipour, Z., Afkhami, H., Eslami, M., Hossein Kheirkhah, A., Taghizadeh, M., Yazdani, Y., Dadashpour, M. A state-of-the-art review on the recent advances of niosomes as a targeted drug delivery system, (2022) *International Journal of Pharmaceutics*, 624, art. no. 121878, .
1745. Fahmy, S.A., Ramzy, A., Sawy, A.M., Nabil, M., Gad, M.Z., El-Shazly, M., Aboul-Soud, M.A.M., Azzazy, H.M.E.-S. Ozonated Olive Oil: Enhanced Cutaneous Delivery via Niosomal Nanovesicles for Melanoma Treatment, (2022) *Antioxidants*, 11 (7), art. no. 1318, .
1746. Vyas, D., Mukhopadhyay, S. and Tamta, B., Divalproex Sodium Niosomes: Formulation and Evaluation for the Treatment of Epilepsy. *NeuroQuantology*, 2022, 20(10), p.3514.
1747. Rajak, P., Patra, E., Karmakar, A., Bhuyan, B. Xanthium strumarium L. Extract Loaded Phyto-Niosome Gel: Development and In Vitro Assessment for the Treatment of Tinea corporis *Biointerface Research in Applied Chemistry*, 2023, 13 (3), art. no. 273 .
1748. Omidian, H., Wilson, R.L. and Chowdhury, S.D., 2023. Enhancing Therapeutic Efficacy of Curcumin: Advances in Delivery Systems and Clinical Applications. *Gels*, 9(8), p.596.
1749. Eldehna, W.M., El Hassab, M.A., Abdelshafi, N.A., Eissa, R.A., Diab, N.H., Mohamed, E.H., Oraby, M.A., Al-Rashood, S.T., Eissa, R.G., Elsayed, Z.M. and Nocentini, A., 2023. Development of potent nanosized carbonic anhydrase inhibitor for targeted therapy of hypoxic solid tumors. *International Journal of Pharmaceutics*, 631, p.122537.
1750. Uboldi, M., Perrotta, C., Moscheni, C., Zecchini, S., Napoli, A., Castiglioni, C., Gazzaniga, A., Melocchi, A. and Zema, L., 2023. Insights into the Safety and Versatility of 4D Printed Intravesical Drug Delivery Systems. *Pharmaceutics*, 15(3), p.757.
1751. Gopalakrishna, P.K., Jayaramu, R.A., Boregowda, S.S., Eshwar, S., Suresh, N.V., Abu Lila, A.S., Moin, A., Alotaibi, H.F., Obaidullah, A.J. and Khafagy, E.S., 2023. Piperine-Loaded In Situ Gel: Formulation, In Vitro Characterization, and Clinical Evaluation against Periodontitis. *Gels*, 9(7), p.577.
1752. Fahmy, S.A., Nasr, S., Ramzy, A., Dawood, A.S., Abdelnaser, A. and Azzazy, H.M.E.S., 2023. Cytotoxic and Antioxidative Effects of Geranium Oil and Ascorbic Acid Coloaded in Niosomes against MCF-7 Breast Cancer Cells. *ACS Omega*. 2023, 8, 25, 22774–22782
1753. Hemmati, J., Chegini, Z. and Arabestani, M.R., 2023. Niosomal-Based Drug Delivery Platforms: A Promising Therapeutic Approach to Fight Staphylococcus aureus Drug Resistance. *Journal of Nanomaterials*, 2023. Article ID 5298565
1754. Fernandes, S.C. and Aguirre, G., 2023. Biopolymer Micro/Nanogel Particles as Smart Drug Delivery and Theranostic Systems. *Pharmaceutics*, 15(8), p.2060.
1755. Gopalakrishna, P.K., Jayaramu, R.A., Boregowda, S.S., Eshwar, S., Suresh, N.V., Abu Lila, A.S., Moin, A., Alotaibi, H.F., Obaidullah, A.J. and Khafagy, E.S., 2023. Piperine-Loaded In Situ Gel: Formulation, In Vitro Characterization, and Clinical Evaluation against Periodontitis. *Gels*, 9(7), p.577.
1756. Xu, Z., Gao, J., Zhang, H., Zheng, G., Hu, J., Li, J., Xu, L. and Kong, Y., 2024. A thermosensitive hydrogel based arginine grafted chitosan and poloxamer 407 for wound healing. *European Polymer Journal*, p.113129.
1757. Roostaei, M., Derakhshani, A., Mirhosseini, H., Mofakham, E.B., Fathi-Karkan, S., Mirinejad, S., Sargazi, S. and Barani, M., Composition, preparation methods, and applications of nanoniosomes as codelivery systems: a review of emerging therapies with emphasis on cancer. *Nanoscale*, 2024,16, 2713-2746
1758. Faheem, S., Hameed, H., Paiva-Santos, A. C., Zaman, M., Sarwar, H. S., & Majeed, I. (2024). Niosome-based gels: a smart nano-carrier for effective and advanced transdermal drug delivery. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 1–19.
1759. Salem, H.F., Nafady, M.M., Eissa, E.M., Abdel-Sattar, H.H. and Khallaf, R.A., 2024. Assembly of In-Situ Gel Containing Nano-Spanlastics of an Angiotensin II Inhibitor as a Novel Epitome for Hypertension Management: Factorial Design Optimization, In-vitro Gauging, Pharmacokinetics, and Pharmacodynamics Appraisal. *AAPS PharmSciTech*, 25(5), p.115.

K. Kamenova, L. Radeva, K. Yoncheva, F. Ublekov, M.A. Ravutsov, M.K. Marinova, S.P. Simeonov, A. Forys, B. Trzebicka, P.D. Petrov, *Functional Nanogel from Natural Substances for Delivery of Doxorubicin*, *Polymers* 2022, 14 (17), 3694

1760. Sam, R., Divanbeigi Kermani, M., Ohadi, M., Salarpour, S. and Dehghannoudeh, G., 2023. Different Applications of Temperature responsive nanogels as a new drug delivery system mini review. *Pharmaceutical Development and Technology*, 28(5), pp.492-500.
1761. Alotaibi, G., Alharthi, S., Basu, B., Ash, D., Dutta, S., Singh, S., Prajapati, B.G., Bhattacharya, S., Chidrawar, V.R. and Chitme, H., 2023. Nano-Gels: Recent Advancement in Fabrication Methods for Mitigation of Skin Cancer. *Gels*, 9(4), p.331.
1762. Oleshchuk, D., 2023. Biodegradable Nanogels from Biocompatible Polymer Precursors. Doctoral thesis, Univerzita Karlova, <http://hdl.handle.net/20.500.11956/186343>
1763. Lu, Z., Zhang, P., Li, J., Zhou, Y., Wang, B. and Lu, X., Doxorubicin Loaded Nano-Gel Preoperative Application Effect as Adjuvant Chemotherapy on Osteosarcoma. *Journal of Biomedical Nanotechnology*, 2024, 20(6), pp.968-975.
1764. Stuart, M.C., Morphological assessment of liposomes by microscopy. In *Liposomes in Drug Delivery 2024*, pp. 71-87. Academic Press.
- N. Petrova, S. Todinova, P. Petrov, V. Velikova, S. Krumova, *Foliar application of Pluronic P85-grafted single-walled carbon nanotubes induces thylakoid membrane structural remodeling*, *Acta Physiologiae Plantarum* **2023**, 45 (12), 133
1765. Wani, A.K., Khan, Z., Sena, S., Akhtar, N., Alreshdi, M.A., Yadav, K.K., Alkahtani, A.M., Rahayu, F., Tafakresnanto, C., Latifah, E. and Hariyono, B., Carbon nanotubes in plant dynamics: unravelling multifaceted roles and phytotoxic implications. *Plant Physiology and Biochemistry*, 2024. p.108628.
- K Kamenova, L Radeva, S Konstantinov, PD Petrov, K Yoncheva, *Copolymeric micelles of poly ( $\epsilon$ -caprolactone) and poly (methacrylic acid) as carriers for the oral delivery of resveratrol*, *Polymers* **2023**, 15 (18), 3769
1766. Badparvar, F., Marjani, A.P., Salehi, R. and Ramezani, F., pH/redox responsive size-switchable intelligent nanovehicle for tumor microenvironment targeted DOX release. *Scientific Reports*, 2023, 13(1), p.22475.
1767. Salla, M., Karaki, N., El Kaderi, B., Ayoub, A.J., Younes, S., Abou Chahla, M.N., Baksh, S. and El Khatib, S., Enhancing the Bioavailability of Resveratrol: Combine It, Derivatize It, or Encapsulate It?. *Pharmaceutics*, 2024, 16(4), p.569.
1768. Kalinova, R.G., Dimitrov, I.V., Ivanova, D.I., Ilieva, Y.E., Tashev, A.N., Zaharieva, M.M., Angelov, G. and Najdenski, H.M., 2024. Polycarbonate-Based Copolymer Micelles as Biodegradable Carriers of Anticancer Podophyllotoxin or Juniper Extracts. *Journal of Functional Biomaterials*, 15(3), p.53.
- Toncheva-Moncheva, N.; Dimitrov, E.; Grancharov, G.; Momekova, D.; Petrov, P.; Rangelov, S. *Cinnamyl-Modified Polyglycidol/Poly( $\epsilon$ -Caprolactone) Block Copolymer Nanocarriers for Enhanced Encapsulation and Prolonged Release of Cannabidiol*. *Pharmaceutics* **2023**, 15, 2128.
1769. Sobieraj, J., Strzelecka, K., Sobczak, M. and Oledzka, E., How Biodegradable Polymers Can be Effective Drug Delivery Systems for Cannabinoids? Prospectives and Challenges. *International Journal of Nanomedicine*, 2024, pp.4607-4649.
- S Krumova, A Petrova, N Petrova, S Stoichev, D Ilkov, T Tsonev, P Petrov, D Koleva, V Velikova, *Seed Priming with Single-Walled Carbon Nanotubes Grafted with Pluronic P85 Preserves the Functional and Structural Characteristics of Pea Plants*, *Nanomaterials* **2023**, 13 (8), 1332
1770. Liang, L., Veksha, A. and Lisak, G., 2023. Nanoprimering Using Plastic-Derived Carbon Nanomaterials: Boosting Growth and Salt Tolerance of PEA (*Pisum sativum* L.). *ACS Agricultural Science & Technology*. 2023, 3, 11, 1081–1091
1771. Liang, L., 2023. Plastic-derived carbon dots for sustainable environmental applications. PhD Thesis, Nanyang Technological University, Singapore.
1772. Wani, A.K., Khan, Z., Sena, S., Akhtar, N., Alreshdi, M.A., Yadav, K.K., Alkahtani, A.M., Rahayu, F., Tafakresnanto, C., Latifah, E. and Hariyono, B., Carbon nanotubes in plant dynamics: unravelling multifaceted roles and phytotoxic implications. *Plant Physiology and Biochemistry*, 2024, p.108628.
1773. Kim, D.Y., Kim, M., Sung, J.S., Koduru, J.R., Nile, S.H., Syed, A., Bahkali, A.H., Seth, C.S. and Ghodake, G.S., Extracellular synthesis of silver nanoparticle using yeast extracts: antibacterial and seed priming applications. *Applied Microbiology and Biotechnology*, 2024, 108(1), p.150.
1774. Prokisch, J., Törös, G., Nguyen, D.H., Neji, C., Ferroudj, A., Sári, D., Muthu, A., Brevik, E.C. and El-Ramady, H., 2024. Nano-Food Farming: Toward Sustainable Applications of Proteins, Mushrooms, Nano-Nutrients, and Nanofibers. *Agronomy*, 2024, 14(3), p.606.
1775. Thiruvengadam, M., Chi, H.Y. and Kim, S.H., Impact of nanopollution on plant growth, photosynthesis, toxicity, and metabolism in the agricultural sector: An updated review. *Plant Physiology and Biochemistry*, 2024, p.108370.
- Schröder, M.; Petrova, M.; Dobrikov, G.M.; Grancharov, G.; Momekova, D.; Petrov, P.D.; Ugrinova, I. *Micellar Form of a Ferrocene-Containing Camphor Sulfonamide with Improved Aqueous Solubility and Tumor Curing Potential*. *Pharmaceutics*, **2023**, 15, 791.
1776. Sinani, G., Durgun, M.E., Cevher, E. and Özsoy, Y., Polymeric-Micelle-Based delivery systems for nucleic acids. *Pharmaceutics*, 2023, 15(8), p.2021.
1777. Haladjova, E. and Rangelov, S., Application of Polymeric Micelles for Drug and Gene Delivery. *Pharmaceutics*, 2024, 16(5), p.646.

1778. McMaster, E.C., 2024. Ferrocene-sulfonamide derivatives as antimycobacterials. Thesis for the degree of Master of Science in Molecular Biology, Faculty of Medicine and Health Sciences at Stellenbosch University.

Stancheva, R.; Paunova-Krasteva, T.; Topouzova-Hristova, T.; Stoitsova, S.; Petrov, P.; Haladjova, E. *Ciprofloxacin-Loaded Mixed Polymeric Micelles as Antibiofilm Agents*. *Pharmaceutics* **2023**, *15*, 1147.

1779. Sinani, G., Durgun, M.E., Cevher, E. and Özsoy, Y., Polymeric-Micelle-Based delivery systems for nucleic acids. *Pharmaceutics*, 2023, 15(8), p.2021.

1780. Panthi, V.K., Fairfull-Smith, K.E. and Islam, N., Ciprofloxacin-Loaded Inhalable Formulations against Lower Respiratory Tract Infections: Challenges, Recent Advances, and Future Perspectives. *Pharmaceutics*, 2024, 16(5), p.648.

Krumova, S. , Petrova, A., Koleva, D., Petrova, S., Stoichev, S., Zlatkova Petrova, Nia, Tsonev, T., Petrov, P. ,Velikova, V. *Priming of Pisum sativum seeds with stabilized Pluronic P85 nanomicelles: effects on seedling development and photosynthetic function*. *Photosynthetica*, **2023**, *61* (4). pp. 432-440.

1781. Lambrev, P. and Janda, T., Special issue in honor of Prof. Győző Garab. *Photosynthetica*, 2023, 61 (SI): 398-404

A Tosheva, P Petrov, G Grancharov, K Yoncheva, D Tzankova, V Tzankova, D Aluani, *In vitro evaluation of antioxidant activity and biocompatibility of caffeic acid phenethyl ester loaded in polymeric micelles*, *Molecular & Cellular Toxicology* **2023**, *19*, 89-98

1782. Stasiłowicz-Krzemiń, A., Rosiak, N., Miklaszewski, A. and Cielecka-Piontek, J., 2023. Screening of the Anti-Neurodegenerative Activity of Caffeic Acid after Introduction into Inorganic Metal Delivery Systems to Increase Its Solubility as the Result of a Mechanochemical Approach. *International Journal of Molecular Sciences*, 24(11), p.9218.

1783. Bahrami, A., Farasat, A., Zolghadr, L., Sabaghi, Y., PourFarzad, F. and Gheibi, N., The anticancer impacts of free and liposomal caffeic acid phenethyl ester (CAPE) on melanoma cell line (A375). *Cell Biochemistry and Function*, 2024, 42(1), p.e3900.

S. Stoilova, D. Georgieva, R. Mihaylova, P.D. Petrov, B. Kostova, *Nanogels Based on N, N-Dimethylacrylamide and  $\beta$ -Cyclodextrin Triacrylate for Enhanced Solubility and Therapeutic Efficacy of Aripiprazole*, *Gels* **2024**, *10*(4), 217

1784. El Bejjaji, S., Ramos-Yacasi, G., Suñer-Carbó, J., Mallandrich, M., Goršek, L., Quilchez, C., & Calpena, A. C. Nanocomposite Gels Loaded with Flurbiprofen: Characterization and Skin Permeability Assessment in Different Skin Species. *Gels*, 2024,10(6), 362.