

Списък на научните публикации за участие в конкурса

Номер	Научна публикация	Импакт фактор	Категория (квартил) JCR/SJR
1.	Mateva, R; Petrov, P. <i>On the activating anionic polymerization of ϵ-caprolactam in bulk caused by bis carbamyl derivatives.</i> European Polymer Journal 1999, <u>35</u> (2), 325-333.	0.72*	Q2/Q1
2.	Mateva, R; Petrov, P; Rousseva, S; Dimitrov, R; Zolova, G. <i>On the structure of poly-ϵ-caprolactams, obtained with bifunctional N-carbamyl derivatives of lactams.</i> European Polymer Journal 2000, <u>36</u> (4), 813-821.	0.745	Q2/Q1
3.	Petrov, P; Gancheva, V; Philipova, T; Velichkova, R; Mateva, R. <i>Synthesis of nylon-6 triblock copolymers with bifunctional polymeric activators.</i> Journal of Polymer Science, Part A: Polymer Chemistry 2000, <u>38</u> (22), 4154-4164.	1.711	Q1/Q1
4.	Petrov, P; Mateva, R; Dimitrov, R; Rousseva, S; Velichkova, R; Bourssukova, M. <i>Structure and thermal behavior of nylon-6/poly(tetrahydrofuran) triblock copolymers obtained via anionic polymerization.</i> Journal of Applied Polymer Science 2002, <u>84</u> (7), 1448-1456.	0.927	Q2/Q1
5.	Petrov, P; Rangelov, S; Novakov, Ch; Brown, W; Berlinova, I; Tsvetanov, Ch B. <i>Core-corona nanoparticles formed by high molecular weight poly(ethylene oxide)-b-poly(alkylglycidyl ether) diblock copolymers.</i> Polymer 2002, <u>43</u> (25), 6641-6651.	1.838	Q1/Q1
6.	Petrov, P; Jankova, K; Mateva, R. <i>Polyamide-6-b-polybutadiene block copolymers: Synthesis and properties.</i> Journal of Applied Polymer Science 2003, <u>89</u> (3), 711-717.	1.017	Q2/Q1
7.	Petrov, P; Stassin, F; Pagnoulle, C; Jerome, R. <i>Noncovalent functionalization of multi-walled carbon nanotubes by pyrene containing polymers.</i> Chemical Communications 2003, (23), 2904-2905.	4.031	Q1/Q1
8.	Petrov, P; Lou, X; Pagnoulle, C; Jerome, C; Calberg, C; Jerome, R. <i>Functionalization of multi-walled carbon nanotubes by electrografting of polyacrylonitrile.</i> Macromolecular Rapid Communications 2004, <u>25</u> (10), 987-990.	3.366	Q1/Q1
9.	Rangelov, S; Petrov, P; Berlinova, I; Tsvetanov, Ch. <i>Association properties of a high molecular weight poly(propylene oxide-b-ethylene oxide) diblock copolymer in aqueous solution.</i> Polymer Bulletin 2004, <u>52</u> (2), 155-161.	0.937	Q2/Q1
10.	Petrov, P; Bozukov, M; Tsvetanov, Ch B. <i>Innovative approach for stabilizing poly(ethylene oxide)-b-poly(propylene oxide)-b-</i>	3.688	Q1/Q1

poly(ethylene oxide) micelles by forming nano-sized networks in the micelle. Journal of Materials Chemistry 2005, 15(14), 1481-1486.

11. Petrov, P; Bozukov, M; Burkhardt, M; Muthukrishnan, S; Müller, A.H.E; Tsvetanov, Ch.B. *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 **4.287** **Q1/Q1**
12. Petrov, P; Petrova, E; Stamenova, R; Tsvetanov, Ch B.; Riess, G. *Cryogels of cellulose derivatives prepared via UV irradiation of moderately frozen systems. Polymer* 2006, 47(19), 6481-6484. (IF 2.773) **2.773** **Q1/Q1**
13. Petrov, P; Petrova,E; Tchorbanov,B; Tsvetanov,Ch B. *Synthesis of biodegradable hydroxyethylcellulose cryogels by UV irradiation Polymer* 2007, 48(17), 4943-4949 **3.065** **Q1/Q1**
14. Petrov, P; Berlinova, I; Tsvetanov, Ch. B; Rosselli, S; Schmid, A; Zilaei, A . B; 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. **1.925** **Q2/Q1**
15. Boshkov, N; Tsvetkova, N; Petrov, P; Koleva, D; Petrov, K; Avdeev, G; Tsvetanov, Ch; Raichevsky, G; Raicheff, R *Corrosion Properties of Zn and Zn-Co Composite Coatings Containing Incorporated Polymeric Nanoparticles Applied Surface Science* 2008, 254, 5618–5625 **1.576** **Q1/Q1**
16. Petrov, P; Mokreva, P; Tsvetanov, Ch.B.; Terlemezyan L. *Colloidal aqueous dispersion of polyaniline nanotubes grafted non-covalently with poly(ethylene oxide)-block-poly(acrylic acid) copolymer Colloid and Polymer Science* 2008, 286, 691–697 **1.736** **Q2/Q1**
17. 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* 2008, 57(9), 1075-1078 **2.029** **Q2/Q1**
18. Petrov, P; Yuan, J; Yoncheva, K; Müller, A. H. E.; Tsvetanov, Ch. 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. **4.189** **Q1/Q1**
19. Petrov, P; Tsvetanov, Ch B; Jérôme, R. *Two-component “Onionlike” micelles with a PPO core, a PDMAEMA shell and* **2.029** **Q2/Q1**

- a PEO corona: formation and crosslinking* **Polymer International** 2008, 57(11), 1258-1264.
20. Petrov, P; Petrova, E; Tsvetanov, Ch.B. *UV-assisted synthesis of super-macroporous polymer hydrogels* **Polymer** 2009, 50(5), 1118-1123. 3.573 Q1/Q1
 21. Petrov, P; Drechsler, M; Muller, A.H.E. *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. 3.471 Q2/Q1
 22. Petrov, P; Tsvetanov, Ch B; Jérôme, R. *Stabilized Mixed Micelles with a Temperature-Responsive Core and a Functional Shell* **Journal of Physical Chemistry B** 2009, 113(21), 7527-33. 3.471 Q2/Q1
 23. Satchanska, G; Topalova, Y; Dimkov, R; Petrov, P; Tsvetanov, Ch; Selenska-Pobell, S; Gorbovskaya, 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) 957-64. 0.204 Q4/Q2
 24. Petrov, P; Georgiev, G; Momekova, D; Momekov, G; Tsvetanov, Ch. B. *UV-assisted grafting of polymers: A method towards biocompatible carbon nanotubes* **Polymer** 2010, 51, 2465-2471. 3.828 Q1/Q1
 25. Velickova, E; Petrov, P; Tsvetanov, C; Kuzmanova, S; Cvetkovska, M; Winkelhausen, E. *Entrapment of Saccharomyces cerevisiae cells in u.v. crosslinked hydroxyethylcellulose/poly(ethylene oxide) double-layered gels* **Reactive & Functional Polymers** 2010, 70(11), 908-915. 2.546 Q1/Q1
 26. 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. 7.164 Q1/Q1
 27. Kostova, B; Momekova, D; Petrov, P; Momekov, G; Toncheva-Moncheva, N; Tsvetanov, C. B.; Lambov, N. *Poly(ethoxytriethylene glycol acrylate) cryogels as novel sustained drug release systems for oral application* **Polymer** 2011, 52(5), 1217-1222. 3.438 Q1/Q1
 28. Petrov, P; Utrata-Wesolek, A; Trzebicka, B; Tsvetanov, C. B.; Dworak, A; Aniol, J; Sieron, A. *Biocompatible cryogels of thermosensitive polyglycidol derivatives with ultra-rapid swelling properties* **European Polymer Journal** 2011, 47(5), 981-988. 2.739 Q1/Q1

29. Petrov, P.D., Georgiev, G.L. *Ice-mediated coating of macroporous cryogels by carbon nanotubes: A concept towards electrically conducting nanocomposites* **Chemical Communications** 2011, 47(20), 5768-5770. **6.169** **Q1/Q1**
30. 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, 44-51. **2.385** **Q2/Q1**
31. Petrov, P., Pavlova, S., Tsvetanov, C.B., Topalova, Y., Dimkov, R. *In situ entrapment of urease in cryogels of poly(N-isopropylacrylamide): An effective strategy for noncovalent immobilization of enzymes* **Journal of Applied Polymer Science** 2011, 122 (3), 1742-1748. **1.289** **Q3/Q1**
32. Topalova, Y., Dimkov, R., Todorova, Y., Daskalova, E., Petrov, P. *Biodegradation of phenol by immobilized in peo-cryogel bacillus laterosporus bt-271 in sequencing batch biofilter* **Biotechnology & Biotechnological Equipment** 2011, 25(4), 2613-2619. **0.76** **Q4/Q3**
33. Petrov, P., Jeleva, D., Tsvetanov, C.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. **2.125** **Q2/Q1**
34. Hu, J., Koleva, D.A., Ma, Y., Schlangen, E., Petrov, P., van Breugel, K. *The influence of admixed micelles on the microstructural properties and global performance of cement-based materials* **Cement and Concrete Research** 2012, 42, 1122-1133. **3.112** **Q1/Q1**
35. Petrov, P.D., Georgiev, G.L. *Fabrication of super-macroporous nanocomposites by deposition of carbon nanotubes onto polymer cryogels* **European Polymer Journal** 2012, 48(8), 1366-1373. **2.562** **Q1/Q1**
36. Yoncheva, K., Calleja, P., Agüeros, M., Petrov, P., Miladinova, I., Tsvetanov, Ch., Irache, J.M. *Stabilized micelles as delivery vehicles for paclitaxel*, **International Journal of Pharmaceutics** 2012, 436(1-2), 258-264. **3.458** **Q1/Q1**
37. Hu, J., Koleva, D.A., Petrov, P., van Breugel, K. *Polymeric vesicles for corrosion control in reinforced mortar: Electrochemical behavior, steel surface analysis and bulk matrix properties*, **Corrosion Science** 2012, 65, 414-430. **3.615** **Q1/Q1**
38. Petrov, P., Georgiev, G., Müller, AHE *Dispersion of multi-walled carbon nanotubes with pyrene-functionalized polymeric micelles in aqueous media*, **Polymer** 2012, 53(24), 5502-5506. **3.379** **Q1/Q1**

39. Petrov, P.D., Ivanova, N.I., Apostolova, M.D., Tsvetanov, C.B. **3.708** **Q1/Q1**
Biodegradable polymer network encapsulated polyplex for DNA delivery **RSC Advances** 2013, 3(11), 3508-3511.
40. Gröschel, A.H., Löbbling, T.I., Petrov, P.D., Müllner, M., Kuttner, C., Wieberger, F., Müller, A.H.E. **11.336** **Q1/Q1**
Janus Micelles as effective supracolloidal dispersants for carbon nanotubes **Angewandte Chemie - International Edition** 2013, 52(13), 3602-3606.
41. Petrov, P.D., Yoncheva, K., Mokreva, P., Konstantinov, S., Irache, J.M., Müller, A.H.E. **4.151** **Q1/Q1**
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(36), 8745-8753.
42. Christova, N., Petrov, P., Kabaivanova, L. **0.569** **Q4/Q3**
Biosurfactant production by pseudomonas aeruginosa BN10 cells entrapped in cryogels **Zeitschrift fur Naturforschung - Section C Journal of Biosciences** 2013, 68C(1-2), 47-52.
43. Stoyneva, V., Momekova, D., Kostova, B., Petrov, P. **4.074** **Q1/Q1**
Stimuli sensitive super-macroporous cryogels based on photo-crosslinked 2-hydroxyethylcellulose and chitosan **Carbohydrate Polymers** 2014, 99, 825-830.
44. Petrov, PD, Tsvetanov, ChB **1.992** **Q2/Q1**
Cryogels via UV Irradiation Technique (in Polymeric Cryogels: Macroporous Gels with Remarkable Properties) **Advances in Polymer Science**, 2014, 263, 199-222.
45. Haladjova, E., Toncheva-Moncheva, N., Apostolova, M., Trzebicka, B., Dworak, A., Petrov, P., Dimitrov, I., Rangelov, S., Tsvetanov, Ch. **5.75** **Q1/Q1**
Polymeric Nanoparticle Engineering: From Temperature-Responsive Polymer Mesoglobules to Gene Delivery Systems **Biomacromolecules**, 2014, 15(12), 4377–4395.
46. Djurdjic, B., Dimchevska, S., Geskovski, N., Petrusevska, M., Gancheva, V., Georgiev, G., Petrov, P., Goracinova, K. **1.988** **Q2/Q2**
Synthesis and self-assembly of amphiphilic poly (acrylic acid)–poly (ε-caprolactone)–poly (acrylic acid) block copolymer as novel carrier for 7-ethyl-10-hydroxy camptothecin **Journal of Biomaterials Applications**, 2015, 29(6), 867–881.
47. Yoncheva K, Petrov P, Pencheva I, Konstantinov S, **1.631** **Q2/Q2**
Triblock polymeric micelles as carriers for anti-inflammatory drug delivery, **Journal of Microencapsulation**, 2015, 32(3), 224-230.
48. Ivanova J, Kabaivanova L, Petrov P, Yankova S, **0.229** **Q4/Q4**
Optimization strategies for improved growth, polysaccharide production and

- storage of the red microalga Rhodella reticulata*, **Bulgarian Chemical Communications** 2015, 47, 167 – 174.
49. Satchanska G, Topalova Y, Dimkov R, Groudeva V, Petrov P, Tsvetanov C, Selenska-Pobell S, Golovinsky E, *Phenol degradation by environmental bacteria entrapped in cryogels*, **Biotechnology & Biotechnological Equipment**, 2015, 9(3), 514-521. **0.373** **Q4/Q4**
50. Yoncheva K, Kondeva-Burdina M, Tzankova V, Petrov P, Laouani M, Halacheva S, *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, 259-267. **3.994** **Q1/Q1**
51. 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, 298-307. **3.994** **Q1/Q1**
52. 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. **3.684** **Q1/Q1**
53. 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. **4.811** **Q1/Q1**
54. 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. **3.177** **Q2/Q1**
55. 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. **3.108** **Q2/Q1**
56. 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. **3.108** **Q2/Q1**
57. Petrov, P., Yoncheva, K., Gancheva, V., Konstantinov, S., Trzebicka, B. *Multifunctional block copolymer nanocarriers for co-delivery of silver nanoparticles and curcumin: Synthesis* **3.531** **Q1/Q1**

and enhanced efficacy against tumor cells. European Polymer Journal, 2016, 81, 24-33.

58. 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. 3.778 Q1/Q1
59. 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. 1.43 Q3/Q2
60. 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. 1.595 Q3/Q3
61. 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. 2.07 Q2/Q1
62. 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. 2.145 Q2/Q1
63. 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 3.684 Q1/Q1
64. Slavkova, M.I., Momekova, D.B., Kostova, B.D., Momekov, G.T., Petrov, P.D. *Novel dextran/ β -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 0.238 Q4/Q4
65. 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. 1.723 Q2/Q1
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* 5.158 Q1/Q1

- micelles into polysaccharide cryogel matrix*, **Carbohydrate Polymers** 2018, 183, 165-172.
67. 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. **5.831** **Q1/Q1**
68. 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. **2.385** **Q3**
69. 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. **3.741** **Q1/Q1**
70. 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. **1.186** **Q4/Q3**
71. 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*. **Revista Brasileira de Farmacognosia - Brazilian Journal of Pharmacognosy**, 2019, 29, 364-372. **1.596** **Q4/Q2**
72. Toncheva-Moncheva, N; Bakardzhiev, P; Rangelov, S; Trzebicka, B; Forys, A; Petrov, P. *Linear Amphiphilic Polyglycidol/Poly(ϵ -caprolactone) Block Copolymers Prepared via "Click" Chemistry-based Concept*. **Macromolecules**, 2019, 52(9), 3435-3447. **5.918** **Q1/Q1**
73. K. Yoncheva, D. Galabov, N. Hristova-Avakumova, V. Hadjimitova, P. Petrov *Poly(ϵ -caprolactone) based nanocarriers of kaempferol: A comparative study*. **Comptes rendus de l'Académie bulgare des sciences** 2019, 72(3), 333-340. **0.343** **Q4/Q2**
74. 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. **1.186** **Q4/Q3**
75. G. Grancharov, M.-D. Atanasova, D. Aluani, K. Yoncheva, V. Tzankova, B. Trusheva, A. Forys, B. Trzebicka, P. D. Petrov *Functional block copolymers bearing pendant cinnamyl groups*. **2.826**** **Q2/Q1**

for enhanced solubilization of caffeic acid phenethyl ester.

Polymer Journal, 2020, 52, 435–447

76. 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(42), 49301 2.52 Q2/Q1
77. 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 2.351 Q1/Q2
78. 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 3.426 Q1/Q1
79. K. Kamenova, G. Grancharov, B. Tzankov, D. Aluani, V. Tzankova, S. Tzankov, K. Yoncheva, P. D. Petrov, *Mixed micellar system for codelivery of doxorubicin and caffeic acid phenethyl ester: design and enhanced antitumor activity.* **Polymer Journal** 2021, 53, 471–479 2.826 Q2/Q1
80. M.D. Atanasova, G. Grancharov, P.D. Petrov, *Poly (ethylene oxide)-block-poly (α-cinnamyl-ε-caprolactone-co-ε-caprolactone) diblock copolymer nanocarriers for enhanced solubilization of caffeic acid phenethyl ester,* **Journal of Polymer Science**, 2021, 59(3), 251-260 2.93 Q2/Q1
81. Y Danov, D Georgieva, R Mihaylova, B Kostova, PD Petrov, *Cryogel Carriers Comprising β-Cyclodextrin Moieties for Improved Solubilization and Delivery of Aripiprazole,* **Macromolecular Chemistry and Physics**, 2021, 2100004 2.335 Q2/Q2
82. A Gospodinova, V Nankov, S Tomov, M Redzheb, PD Petrov, *Extrusion bioprinting of hydroxyethylcellulose-based bioink for cervical tumor model,* **Carbohydrate Polymers**, 2021, 117793 7.182 Q1/Q1
83. V Velikova, N Petrova, L Kovács, A Petrova, D Koleva, T Tsonev, S Taneva, P Petrov, S Krumova, *Single-Walled Carbon Nanotubes Modify Leaf Micromorphology, Chloroplast Ultrastructure and Photosynthetic Activity of Pea Plants,* **International Journal of Molecular Sciences** 2021, 22 (9), 4878 4.556 Q1/Q1
84. Petar D. Petrov, *Nanotechnology Developments Against Sars-Cov-2: Current Facts and New Opportunities,* **Comptes rendus de l' Académie bulgare des Sciences**, 2021, 74(5), 631-648 0.343 Q4/Q2

ПРОФ. Д.Н. ПЕТЪР ДИМИТРОВ ПЕТРОВ

КОНКУРС ЗА ЧЛЕН-КОРЕСПОНДЕНТИ НА БАН, КОИТО НЕ СА НАВЪРШИЛИ 50 ГОДИНИ

* - за годината на публикуване

** - за най-близката година