Списък на научните публикации за участие в конкурса

Номер	Научна публикация	Импакт фактор	Квар-тил*
1.	Mateva, R; Petrov, P. *On the activating anionic polymerization of ε-caprolactam in bulk caused by bis carbamyl derivatives.* **European Polymer Journal** 1999, *35(2),* 325-333.	**0.72**	**Q1**
2.	Mateva, R; Petrov, P; Rousseva, S; Dimitrov, R; Zolova, G. *On the structure of poly-ε-caprolactams, obtained with bifunctional N-carbamyl derivatives of lactams.* **European Polymer Journal** 2000, *36(4),* 813-821.	**0.745**	**Q1**
3.	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.	**1.711**	**Q1**
4.	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.	**0.927**	**Q1**
5.	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.	**1.838**	**Q1**
6.	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.	**1.017**	**Q1**
7.	Petrov, P; Stassin, F; Pagnoulle, C; Jerome, R. *Noncovalent functionalization of multi-walled carbon nanotubes by pyrene containing polymers.* **Chemical Communications** 2003, *(23),* 2904-2905.	**4.031**	**Q1**
8.	Petrov, P; Lou, X; Pagnoulle, 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.	**3.366**	**Q1**
9.	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** 2004, *52(2),* 155-161.	**0.937**	**Q1**
10. Petrov, P; Bozukov, M; Tsvetanov, Ch 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.	**3.688**	**Q1**
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**
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.	**2.773**	**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**
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**	**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**
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**	**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**	**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**
19. Petrov, P; Tsvetanov, Ch B; Jérôme, R. *Two-component "Onionlike" micelles with a PPO core, a PDMAEMA shell and a PEO corona: formation and crosslinking* **Polymer International** 2008, *57(11),* 1258-1264.	**2.029**	**Q1**
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**
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**	**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**	**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**	**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**
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**
26. Petrov, P; Momekova, D; Kostova, B; Momekov, G; Toncheva-Moncheva, N; Tsvetanov, C.B.; Lambov, N *Super-macroporous poly(ethoxytriethyleneglycol acrylate) hydrogels for*	**7.164**	**Q1**

sustained delivery of hydrophilic drugs **Journal of Controlled Release** 2010, *148(1),* e81-e82.		
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**
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**
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**
30. Donev, R., Koseva, N., Petrov, P., Kowalczuk, 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**	**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**	**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**	**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**	**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–	**3.112**	**Q1**

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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**
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**
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**
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**
39. 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),* 3508-3511.	**3.708**	**Q1**
40. Gröschel, A.H., Löbling, 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.	**11.336**	**Q1**
41. Petrov, P.D., Yoncheva, K., Mokreva, P., Konstantinov, S., Irache, J.M., Müller, A.H.E. *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.	**4.151**	**Q1**
42. 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, *68C(1-2),* 47-52.	**0.569**	**Q3**
43. 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.	**4.074**	**Q1**
44. Petrov, PD, Tsvetanov, ChB *Cryogels via UV Irradiation*		

Technique (in Polymeric Cryogels: Macroporous Gels with Remarkable Properties) **Advances in Polymer Science**, 2014, *263,* 199-222.	**1.992**	**Q1**
45. Haladjova,E., Toncheva-Moncheva,N., Apostolova,M., Trzebicka,B., Dworak,A., Petrov,P., Dimitrov,I., Rangelov,S., Tsvetanov,Ch. *Polymeric Nanoparticle Engineering: From Temperature-Responsive Polymer Mesoglobules to Gene Delivery Systems* **Biomacromolecules,** 2014, *15(12),* 4377–4395.	**5.75**	**Q1**
46. 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(6),* 867–881.	**1.988**	**Q2**
47. 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.	**1.631**	**Q2**
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Momekov, G, Petrov, P. *Functional multilayered polymeric nanocarriers for delivery of mitochondrial targeted anticancer drug curcumin.* **Polymer**, 2016, *84,* 27-37.	**3.684**	**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**
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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**	**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**	**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 and enhanced efficacy against tumor cells.* **European Polymer Journal**, 2016, *81,* 24-33.	**3.531**	**Q1**
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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**	**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**
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**
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**	**Q1**
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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**
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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**
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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 for enhanced solubilization of caffeic acid phenethyl ester.* **Polymer Journal**, 2020, *52,* 435–447	**3.08**	**Q1**
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temperature-responsive poly (N-isopropylacrylamide). **Journal of Applied Polymer Science** 2020, *137(42),* 49301		
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	**3.209**	**Q1**
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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	**0.326**	**Q3**
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*Разпределението по категории (квартили), е направено по метриките SJR и JCR, като при разлика е приет по-високия квартил, съгласно Правилника за прилагане на ЗРАСРБ за ПН 4.2 Химически науки.