

СПИСЪК НА НАУЧНИ ПРУДОВЕ И УЧЕБНИ ПОМАГАЛА

на гл. ас. д-р инж. Райна Георгиева Бряскова

представен за участие в конкурс за доцент по научна специалност 4.2. Химически науки (Химия на високомолекулярните съединения), обявен от ХПМУ в ДВ, брой 62/14.08.2015г.

НАУЧНИ ПРУДОВЕ И УЧЕБНИ ПОМАГАЛА	ОБЩО
Учебник	1
Глава от книга	1
Публикации представени за участие в конкурс за доцент	27
• В списания с импакт фактор (сумарен импакт фактор – 62.91)	20
• В индексирани списания без импакт фактор	4
• Доклади в пълен текст с редактор	3
Публикации по дисертационния труд за образователна и научна степен «доктор»	4

I. Учебници

1. Райна Бряскова „Особености и закономерности при получаването на полимери”, София, 2014г.

II. Глава от книга

1. Debuigne, A., Detrembleur, C., **Bryaskova, R.**, Caille, J.-R., Jérôme, R.; *Cobalt-mediated radical polymerization of vinyl acetate: A new tool for macromolecular engineering*; **ACS Symposium Series** 944, pp. 372-386; 2006, Editor: Krzysztof Matyjaszewski.

III. ПУБЛИКАЦИИ

В списания с импакт фактор (20)

1. Ivanova, Y.Y., Dimitriev, Y.B., Gerganova, T.I., **Bryaskova, R.G.**, Fernandes, M.H.V., Miranda Salvado, I.M.; *Organic-inorganic hybrid materials based on N=C=O functionalised silan modified with titanium and zirconium*; **Central European Journal of Chemistry** 3 (3), pp. 452-469, 2005 (IF-1.329).
2. Detrembleur, C., Debuigne, A., **Bryaskova, R.**, Charleux, B., Jérôme, R.; *Cobalt-mediated radical polymerization of vinyl acetate in miniemulsion: Very fast formation of stable poly(vinyl acetate) latexes at low temperature*; **Macromolecular Rapid Communications** 27 (1), pp. 37-41; 2006 (IF-4.608).
3. Detrembleur, C., Stoilova, O., **Bryaskova, R.**, Debuigne, A., Mouithy-Mickalad, A., Jérôme, R.; *Preparation of well-defined PVOH/C60 nanohybrids by cobalt-mediated radical polymerization of vinyl acetate*; **Macromolecular Rapid Communications** 27 (7), pp. 498-504; 2006 (IF-4.608).
4. **Bryaskova, R.**, Detrembleur, C., Debuigne, A., Jérôme, R.; *Cobalt-Mediated Radical Polymerization (CMRP) of vinyl acetate initiated by redox systems: Toward the scale-up of CMRP*; **Macromolecules** 39 (24), pp. 8263-8268; 2006 (IF-5.927).
5. **Bryaskova, R.**, Willet, N., Debuicne, A., Jérôme, R., Detrembleur, C.; *Synthesis of poly(vinyl acetate)-b-polystyrene and poly(vinyl alcohol)-b-polystyrene copolymers by cobalt-mediated radical polymerization*; **Journal of Polymer Science, Part A: Polymer Chemistry** 45 (1), pp. 81-89; 2007 (IF-3.245).
6. **Bryaskova, R.**, Willet, N., Degée, P., Dubois, P., Jérôme, R., Detrembleur, C.; *Copolymerization of vinyl acetate with 1-octene and ethylene by cobalt-mediated radical polymerization*; **Journal of Polymer Science, Part A: Polymer Chemistry** 45 (12), pp. 2532-2542; 2007 (IF-3.245).
7. **Bryaskova, R.**, N. Willet, A-S. Duwez, A. Debuigne, L. Lepot, B. Gilbert, Jérôme, C., C. Detrembleur, *Gold-loaded carbon nanoparticles from poly(vinyl*

alcohol)-b- *poly(acrylonitrile) non-shell-cross-linked micelles*; **Chemistry - An Asian Journal** 4, 8 (2009) 1338-1345 (IF-3.935).

8. **Bryaskova, R.**, Pencheva, D., Kyulavska, M., Bozukova, D., Debuigne, A., Detrembleur, C., *Antibacterial activity of poly(vinyl alcohol)-b-poly(acrylonitrile) based micelles loaded with silver nanoparticles*; **Journal of Colloid and Interface Science** 344, 2 (2010) 424-428 (IF-3.552).
9. Georgieva, N., **Bryaskova, R.**, Debuigne, A., Detrembleur, C., *Cadmium and copper absorption mediated by a poly(vinyl alcohol)-b-polyacrylonitrile based micelle/trichosporon cutaneum cell system*; **Journal of Applied Polymer Science** 116, 5 (2010) 2970-2975 (IF-1.395).
10. **Bryaskova R.**, Georgieva, N., Peshev, D., *Removal of cadmium and copper ions by Trichosporon cutaneum R57 cells immobilized onto polyvinyl alcohol/tetraethoxysilane hybrid matrices*, **Central European Journal of Chemistry** 8, 5 (2010) 1053-1058 (IF-1.329).
11. **Bryaskova, R.**, Pencheva, D., Kale, G.M., Lad, U., Kantardjiev, T.; *Synthesis, characterisation and antibacterial activity of PVA/TEOS/Ag-Np hybrid thin films*, **Journal of Colloid and Interface Science** 349, 1 (2010) 77-85 (IF-3.552).
12. Pencheva, D., **Bryaskova, R.**, Lad, U., Kale, G.M., Kantardjiev, T., *Sporocidal properties of poly(vinyl alcohol)/silver nanoparticles/TEOS thin hybrid films*, **Journal of Biomedical Nanotechnology** 8, 3 (2012) 465-472 (IF-7.578).
13. Pencheva, D., **Bryaskova, R.**, Kantardjiev, T., *Polyvinyl alcohol/silver nanoparticles (PVA/AgNps) as a model for testing the biological activity of hybrid materials with included silver nanoparticles*, **Materials Science and Engineering C** 32, 7 (2012) 2048-205 (IF-2.736).
14. Georgieva, N., **Bryaskova, R.**, Tzoneva, R., *New Polyvinyl alcohol-based hybrid materials for biomedical application*, **Materials Letters** 88 (2012) 19-22 (IF-2.269).
15. Lad U, Kale G.M., **Bryaskova R.**, *Glucose oxidase encapsulated polyvinyl alcohol-silica hybrid films for an electrochemical glucose sensing electrode*; **Analytical Chemistry** 85,13 (2013) 6349-6355 (IF-5.825).
16. **Bryaskova R.**, Georgieva N., Andreeva T., Tzoneva R., *Cell adhesive behavior of PVA-based hybrid materials with silver nanoparticles*; **Surface and Coatings Technology** 235 (2013) 186-191 (IF-2.199).
17. Georgieva N., **Bryaskova R.**, Lazarova N., Peshev D., Tzoneva R., *PVA-based hybrid materials for immobilization of trichosporon cutaneum R57 efficient in removal of chromium ions*; **Comptes Rendus de L'Academie Bulgare des Sciences**, 66 (2013) 35-44 (IF-0.198).

18. Georgieva N., **Bryaskova R.**, Lazarova N., Ralcheva R., *Immobilization of Trichosporon cutaneum R 57 on PVA/TEOS/MPTEOS hybrid matrices for removal of manganese ions*, **Biotechnology & Biotechnological Equipment**; 27 (2013) 4078 – 4081 (IF- 0.622).
19. Kyulavska, M., **Bryaskova, R.**, Bozukova, D., Mateva, R., *Synthesis, structure and behavior of new polycaprolactam copolymers based on poly (ethylene oxide)-poly (propylene oxide)-poly (ethylene oxide) macroactivators derived from Pluronic block copolymers*, **Journal of Polymer Research**, Vol.21 (6) (2014) 471 (IF-1.897).
20. Lad U., Kale G.M., **Bryaskova R.**, *Sarcosine Oxidase Encapsulated Polyvinyl Alcohol-Silica-AuNP Hybrid Films for Sarcosine Sensing Electrochemical Bioelectrode*, **Journal of the Electrochemical Society**, Vol. 161 (5), B98-B101, 2014 (IF-2.859).

Σ IF = 62,91

В индексирани списания без импакт фактор (4)

21. D. Pencheva, **Bryaskova R.**, Kantardjiev T., *Testing the bactericidal activity of PVA/TEOS/AgNps hybrid thin films onto clinical strains with proven resistance toward one or more antimicrobial agents*, **Problems of Infectious and Parasitic Diseases**, vol. 38, 1 (2010) 28.
22. Pencheva D., **Bryaskova R.**, Kantardjiev, T., *Testing of the control strain escherichia coli O 104 using hybrid materials based on silver nanoparticles*, **Problems of Infectious and Parasitic Diseases** 38, 2 (2010) 37-40.
23. Pencheva, D., **Bryaskova, R.**, Kantardjiev, T., *Is there a presence of synergism by combining of hybrid materials with included silver nanoparticles with antimicrobial substances?* **Problems of Infectious and Parasitic Diseases** 39, 2 (2011) 15-19.
24. **Bryaskova, R.**, Pencheva, D., Nikolov, S., Kantardjiev, T., *Synthesis and comparative study on the antimicrobial activity of hybrid materials based on silver nanoparticles (AgNps) stabilized by polyvinylpyrrolidone (PVP)*, **Journal of Chemical Biology** 4, 4 (2011) 185-191.

Доклади в пълен текст с редактор (3)

25. Debuigne A., Detrembleur Ch., **Bryaskova R.**, Caille Jean-R., Jerome R.; *A new system for the controlled radical polymerization of vinyl acetate*; **Polymer Preprints**, 46(2), (2005) 313-314.
26. Герганова Цв., Иванова Й., Димитриев Я., **Бряскова Р.**, *Механизъм на гелообразуване и структура на гелни хибридни материали от*

системата Si-O-C-n-Ti (Zr), **Balkan conference of Young Scientifics**, 16-18 June, (2005) 205-210.

27. Pencheva D., Kantardjiev T., **Bryaskova R.**, *Possibilities for application of hybrid materials with silver nanoparticles for prevention and treatment of animal*,; DOI: 10.13140/2.1.4519.5841 Conference: The Jubilee Scientific Session “110 years National Diagnostic Science-and-Research Veterinary Medical Institute” (2010) 329-333.

IV. Статии включени в дисертацията

1. R. Mateva, **Rayna Filyanova**, R. Velichkova, V. Gancheva, “*Anionic Copolymerization of Hexanelactam with Functionalized Polyisoprene*”, **Journal of Polymer Science: Part A: Polymer Chemistry**, 41, (2003) 487-496 (IF-3.113).
2. **Rayna Filyanova**, N. Toncheva, R. Mateva, R. Velichkova, *Kinetic study of block copolymers based on Nylon-6 and Functionalized Polyisoprene*, **Journal of the University of Chemical Technology and Metallurgy** – т. XXXVIII, book 1, (2003) 141-150.
3. R. Mateva, **Rayna Filyanova**, R. Dimitrov, R. Velichkova, “*Structure, Mechanical, and Thermal behavior of Nylon 6-Polyisoprene block copolymers obtained via anionic polymerization*”, **Journal of Applied Polymer Science**, Vol.91(5) (2004) 3251-3258 (IF-1.64).
4. **R. Bryaskova**, R. Mateva, N. Djourelov, M. Krasteva, *Study of multiblock polyamide-6/Poly-(isoprene) copolymers by positron annihilation spectroscopy*, **Central European Journal of Chemistry** 6, 4 (2008), 575-580 (IF-1.329).