СПИСЪК НА ПУБЛИКАЦИИТЕ

на гл. ас. д-р Стойко Петрин, представени за участие в конкурс за „Доцент“ по научна специалност 5.11. Биотехнологии (Технология на биологично активните вещества), обявен от ХТМУ в ДВ, брой 71 / 07.08.2026 г.

I. Списък на научни публикации (не по-малко от 10) в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (показател 4):

1. G. Radeva, I. Valchev, **S. Petrin**, Study of the adsorption equilibrium in cellulase- pulp system, J Univ Chem Tech Met, 46(2), 2011, 197- 202
2. G. Radeva, I. Valchev, **S. Petrin**, E. Valcheva, P. Tsekova, Kinetic model of enzymatic hydrolysis of steam–exploded wheat straw, Carbohydrate Polymers, 87, 2012, 1280-1285
3. G. Radeva, I. Valchev, **S. Petrin**, E. Valcheva, P. Tsekova, Kinetics study of the enzyme conversion of steam exploded Paulownia Tomentosa to glucose, BioResources, 7 (1), 2012, 412-421
4. V. Savov, V.; P. Antov, C. Panchev, M.A.R Lubis, S.H. Lee, H.R. Taghiyari, M. Todorova, **S. Petrin**, Effect of Hydrolysis Regime on the Properties of Fibers Obtained from Recycling Medium-Density Fiberboards. Fibers 11(7), 2023, 64
5. D. Danalev, I. Iliev, S. Dobrev, S. Angelova, **S. Petrin**, T. Dzimbova, E. Ivanova, D. Borisova, E. Naydenova, Synthesis, Antiproliferative Effect and In Silico LogP Prediction of BIM-23052 Analogs Containing Tyr Instead of Phe, Pharmaceutics 15(4), 2023,1123
6. B. Borisova, H. Nocheva, S. Gérard, M. Laronze-Cochard, S. Dobrev, S. Angelova, **S. Petrin**, D. Danalev, Synthesis, In Silico Logp Study, and In Vivo Analgesic Activity of Analogs of Tetrapeptide FELL, Pharmaceuticals, 16(8), 2023, 1183
7. B. Borisova, S. Vladimirova, H. Nocheva, M. Laronze-Cochard, S. Gérard, **S. Petrin**, D. Danalev, Synthesis, Hydrolytic Stability and In Vivo Biological Study of Bioconjugates of the Tetrapeptides FELL Containing Pyrrole Moiety. Biomedicines , 11(12), 2023, 3265
8. I. Valchev, V. Savov, I. Yordanov, **S. Petrin**, P. Antov, Effect of Hot-Pressing Temperature on the Properties of Eco-Friendly Fiberboard Panels Bonded with Hydrolysis Lignin and Phenol–Formaldehyde Resin. Polymers, 16(8), 2024, 1059.
9. B. Borisova, H. Nocheva, I. Iliev, M. Laronze-Cochard, S. Gérard, **S. Petrin**, D. Danalev, Synthesis and analgesic activity of new analogs of FELL tetrapeptide containing D-Phe in the first position, Current Research in Biotechnology, Volume 8, 2024, 100249

10. D. Dimitrova, V. Nemska, I. Iliev, **S. Petrin**, N. Georgieva, D. Danalev, New Temporin A Analogues Modified in Positions 1 and 10—Synthesis and Biological Studies. Pharmaceutics, 17(4), 2025, 396.

II. Списък на научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (показател Г-7):

1. **S. Petrin**, I. Valchev, T. Radoykova, S. Nenkova, Application of peroxides for bioethanol production from lignocellulosic materials, Proceedings of the 9th International conference on polysaccharides-glycoscience, Prague, Czesh Republic, 6-8 November, 2013, 178-180
2. N. Yavorov, **S. Petrin**, I. Valchev, S. Nenkova, Potential of fast growing poplar, willow and paulownia for bioenergy production, Bulgarian Chemical Communications, Vol. 47, Special issue A, 2015, 5-9, Web of science
3. I. Valchev, N. Yavorov, **S. Petrin**, Topochemical kinetic mechanism of cellulose hydrolysis on fast-growing tree species. COST Action FP1105, Holzforschung 70(12), 2016; 1147–1153, Scopus
4. N. Yavorov, **S. Petrin**, P. Velichkova, D. Todorova, I. Valchev and I. Lalov, Effect of parameters of mild acid hardwood pulp hydrolysis on the released wastewater sugars and methane production potential, Proceedings of the 13th International conference on polysaccharides-glycoscience, Prague, Czesh Republic, 8-10 November, 2017, pp. 311-314. Publisher: Czech Chemical Society, ISBN: 978-80-86238-74-6, ISSN: 2336-6796, Web of science
5. N. Yotov, I. Valchev, **S. Petrin**, V. Savov, Lignosulphonate and waste technical hydrolysis lignin as adhesives for eco-friendly fiberboard, Bulgarian Chemical Communications, Volume 49, Special Issue L, 2017, 92 – 97, Web of science
6. M. Nedkova-Shtipska, S. Jaber, **S. Petrin**, V. Karadjova, D. Danalev, Study of transformation of p-aminophenol in liquid phase with infrared scpectroscopy, Journal of Chemical Technology and Metallurgy, 57(5), 2022, 992-997, Scopus
7. T. Ivanov, **S. Petrin**, I. Lalov, Pyegrass as a feedstock for bioethanol production, Journal of Chemical Technology and Metallurgy, Vol.: 58(5), 2023, 840-844, Scopus
8. **S. Petrin**, I. Valchev, V. Toteva, Temperature dependence in CO2 steam explosion pretreatment for sugars production of industrial hemp, European Biomass Conference and Exhibition Proceedings, 2024, pp. 621-624, Scopus
9. V. Toteva, I. Valchev, **S. Petrin**, Polymers from renewable resources: Glucose from enzymatic hydrolysis of hemp biomass. Polymers from Renewable Resources, 15(3), 2024, 381-388, Scopus
10. V. Savov, P. Antov, A. Kostadinova-Slaveva, J. Yusein, V. Dudeva, E. Todorova, **S. Petrin**, Development and Characterization of Sustainable Biocomposites from Wood Fibers, Spent Coffee Grounds, and Ammonium Lignosulfonate, Polymers, 17, 2025, 2589, https://doi.org/10.3390/polym17192589 -Scopus

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12. V. Dudeva, G. Ivanov, V. Savov, P. Antov, K. Ninikas, **S. Petrin**, A. Kostadinova-Slaveva, Ammonium Bisulfite and Urea–Metabisulfite as Formaldehyde Scavengers in Low-Molar-Ratio Urea–Formaldehyde Resin for Medium-Density Fiberboard: Curing Behavior and Panel Performance. Polymers, 18, 2026, 786, https://doi.org/10.3390/polym18070786 -
13. Y. Stoyanova, N. Lazarova-Zdravkova, S. Pietsch-Braune, **S. Petrin**, A. Stefanova, S. Heinrich, D. Peshev, Integrated Membrane Filtration for the Recovery of Antioxidants from Lavender Spent Plant Material. Membranes. 16(2), 2026, 76, https://doi.org/10.3390/membranes16020076 - Scopus
14. C. Chilev, N. Lazarova-Zdravkova, Y. Stoyanova, **S. Petrin**, D. Peshev, Optimization of clove oil hydro-distillation: Effects of process parameters on yield and bioactive compound recovery, Current Research in Biotechnology, Volume 11, 2026, 100373, https://doi.org/10.1016/j.crbiot.2026.100373 - - Scopus
15. **S. Petrin**, S. Kuzeva, I. Gavrilov, G. Radeva, P. Mileva-Petrova, I. Valchev, Kinetic study of softwood cooking for bleached pulp production, Bulgarian Chemical Communications, Volume 58(2), pp. 185-188, 2026, DOI: 10.34049/bcc.58.2.NCC01 - Scopus
16. I. Gavrilov, **S. Petrin**, P. Mileva-Petrova, G. Radeva, I. Valchev, Temperature-time and concentration dependences of mild dilute acid hydrolysis, Bulgarian Chemical Communications, Volume 58(2), pp. 189-192, 2026, DOI: 10.34049/bcc.58.2.NCC02 - Scopus
17. **S. Petrin**, G. Ivanov, Alkenyl succinic anhydride as a compound to reduce water absorption in the production of fiberboard with phenol formaldehyde resin, Journal of Chemical Technology and Metallurgy, 61(4), pp. 589-594, 2026, DOI: 10.59957/jctm.v61.i4.2026.2 – Scopus

III. Списък на научни публикации в нереферирани списания с научно рецензиране или в редактирани колективни томове (показател 8):

1. **S. Petrin**, P. Tsekova, I. Valchev, S. Nenkova, G. Radeva, Paulownia biomass as a promising source of reducing sugars, Italic 6, Science&Technology of Biomass: Advances and Challenges, Viterbo, Italy, 5-8 Sept., 2011, 335 - 338
2. P. Tsekova, **S. Petrin**, I. Valchev, S. Nenkova, V. Blyahovski, G. Radeva, Comparative consideration of the pretreatment methods used in bioethanol production on the basis of wheat straw and maize stalks, Italic 6, Science&Technology of Biomass: Advances and Challenges, Viterbo, Italy, 5-8 Sept., 2011, 311 – 314
3. I. Valchev, S. Petrin, Application of an exponential rate law to enzyme hydrolysis of maize stalks, COST Action FP 0901 Tulln, Austria, 25 March, 2013, 22-23

4. P. Tsekova, **S. Petrin**, I. Valchev, Effect of pretreatment methods and enzyme complexes on sugar yield from maize stalks, COST Action FP 0901 Tulln, Austria, 25 March 2013, 24-25
5. I. Valchev, **S. Petrin**, Comparative kinetic investigation of cellulase hydrolysis of hydrothermal treated wheat straw and maize stalks, Proceeding of 21st European Biomass Conference and Exhibition, Copenhagen, Denmark, 3 – 7 June, 2013, 1547 -1551
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7. N. Yotov, V. Savov, I. Valchev, **S. Petrin**, V. Karatotev, Study on possibility for the utilization of technical, hydrolysis, lignin in composition of medium density fiberboard, Innovation in woodworking industry and engineering design. Vol. 6(2), 2017, 69-74
8. V. Blyahovski, **S. Petrin**, I. Valchev, V. Toteva, Optimal pretreatment conditions of industrial hemp residues to glucose, Innovation in woodworking industry and engineering design, Vol. 14(1), 2025, 20–25
9. I. Gavrilov, P. Mileva-Petrova, **S. Petrin**, I. Valchev, G. Radeva Investigation of dilute acid hydrolysis of bleached pulp to MCC and pulp for MFC, 26th International symposium on pulp, paper, packaging and graphics - CPAG25, 23-24 June, 2025, p. 11-17, DOI: 10.46793/CPAG25.011G