

Списък на публикациите на професор дбн Яна Топалова
за 2012-2016 г. /последните пет години/

A. Статии в списания с импакт фактор или импакт ранг

1. Beluhova M, Schneider I, Topalova Y. (2012) **Effect of nanodiamonds on model biphasic azo-detoxification process applied in the critical technological situations.** *Bulgarian Journal of Agricultural Science*, 19 (2) 2013, 128–131(SJR=0.164)
2. Schneider I., Beluhova M., Topalova Y. (2012) **Stabilizing Role of Nanodiamonds on the Amaranth Transformation in Model Biofilters.** *Journal of Bioremediation and Biodegradation*, S3, Open Access: <http://dx.doi.org/10.4172/2155-6199.S3-001> (IF 3.5)
3. Lincheva S., I. Schneider, Y. Topalova (2013) **Dynamics of the functional structure of the sediment microflora during the model process of phenol biodegradation,** *Bulgarian Journal of Agricultural Science*, 19 (2 supplement), 139-142 (SJR=0.164)
4. Schneider I., Y. Topalova (2013) **Enzyme activities as a tool for biological control in dairy wastewater treatment,** *Bulgarian Journal of Agricultural Science*, 19 (2 supplement), 132 – 134 (SJR=0.164)
5. Schneider I., Y. Topalova (2013) **Microbial structure and functions of biofilm during wastewater treatment in the dairy industry,** *Biotechnology and Biotechnological Equipment*, 27 (3), 3782-3786 (IF = 0.379; SJR=0.216)
6. Topalova Y., I. Schneider, Y. Todorova, A. Panova (2013) **Analogous modeling of nutrient transformation in Iskar River sediments at different moisture content: microbiological and enzymological indicators,** *Biotechnology and Biotechnological Equipment*, 27 (4), 3923-3931 (IF = 0.379; SJR=0.216)
7. Todorova Y., Y. Topalova. (2013) **Short-time effect of heavy metals stress on key enzyme indicators in river sediments.** *Bulgarian Journal of Agricultural Science*, 19 (2), 282–285 (SJR=0.164)
8. Yotinov I., S. Lincheva, L. Kenderov, I. Schneider, Y. Topalova (2013) **Evaluation of the self-purification in the waters of the micro-dams in the small hydro electric power plants (HEPPs) Lakatnik and Svrazhen: potential of the bioalgorithms,** *Bulgarian Journal of Agricultural Science*, 19 (2 supplement), 135-138 (SJR=0.164)
9. Topalova Y., I. Schneider, Y. Todorova, A. Panova-Karadzhova. (2013) **Analogous modeling of nutrient transformation in Iskar River sediments at different moisture content: microbiological and enzymological indicators.** *Biotechnology & Biotechnological Equipment*, 27 (4): 3923-3931 (IF = 0.379; SJR=0.216)

10. Todorova Y., St. Lincheva, Y. Topalova. (2014) **Risk management scenario for multiple heavy metal contamination at river sediments in the Middle Iskar cascade.** *Bulgarian Journal of Agricultural Science*, 20 (1), 100-104 (SJR=0.164)
11. Lincheva S., I. Schneider, E. Daskalova, Y. Topalova (2014) **Modelling of risk effect of mercury on nutrient transformation in lake sediments**, *Biotechnology and Biotechnological Equipment*, 28 (4), 650-658 (IF = 0.300; SJR=0.162)
12. Lincheva S., Y. Todorova, Y. Topalova. (2014) **Long-term assessment of the self-purification potential of technologically managed ecosystem: The Middle Iskar cascade.** *Biotechnology & Biotechnological Equipment*, 28 (3), pp. 455-462 (IF = 0.300; SJR=0.162)
13. Belouhova M., Schneider I., Chakarov S., Ivanova I., Topalova Y. (2014). **Microbial Community Development of Biofilm in Amaranth Decolorization Technology Analysed by FISH** , *Biotechnology&Biotechnology Equipment* 28(4):635-642.
14. Schneider I., Y. Topalova (2014) **Kinetic parameters of protease activity of *Peptostreptococcus sp.* as a tool for regulation of dairy wastewater treatment**, *Bulgarian Journal of Agricultural Science*, 20 (supplement 1), 74-77 (SJR=0.196)
15. Todorova Y., I. Yotinov, St. Lincheva, Y. Topalova. (2015) **A large-scale identification of sediment-associated risks of contamination with heavy metals and organics: indicators and algorithms.** *Journal of Water Resource and Protection*, 7, 101-110, doi: 10.4236/jwarp.2015.72008. (Journal Impact =0.620, based on Research gate)
16. Schneider I., Y. Topalova (2016) **Approaches for acceleration of wastewater treatment in dairy industry**, *Environmental Engineering and Management Journal*, in press (IF = 0.443; SJR=0.311)
17. Yotinov I., Y. Todorova, I. Schneider, E. Daskalova, Y. Topalova (2016) **The effect of nanodiamonds on phenol biodegradation by *Pseudomonas sp.* strain isolated from polluted sediments**, *Journal of Nanoscience and Nanotechnology*, 16 (7), 7696-7706 (IF = 1.338; SJR=0.358)
18. Yotinov I., Y. Todorova, I. Schneider, E. Daskalova, Y. Topalova (2016) **Comparison of The Influence of Nanodiamonds and Single-Walled Nanotubes on Phenol Biotoxification by *Pseudomonas sp.*** *Journal of Nanoscience and Nanotechnology*, in press (IF = 1.338; SJR=0.358)
19. Todorova Y., St. Lincheva, I. Yotinov, Y. Topalova. (2016) **Contamination and Ecological Risk Assessment of Long-Term Polluted Sediments with Heavy Metals in Small Hydropower Cascade.** *Water Resources Management*, DOI 10.1007/s11269-016-1413-8 (IF=2.437)

Б. Статии в списания без импакт фактор и без импакт ранг

1. Линчева Ст., Й. Тодорова, Л. Кендеров, Я. Топалова. 2012. **Оценка на пречиствателния потенциал на река Искър в района на каскадата минивецове „Среден Искър” през пролетното пълноводие на 2010/2011 г.**, *Екологично инженерство и опазване на околната среда*, 1, 26-34.
2. Todorova Y., Kirilova M., Dimkov R., Topalova Y. (2012). **The Comparison of Amaranth Decolorization Ability for Two Types of Biological Consortia**. *Journal of Life Sciences* 6: 454-459 (Global IF=0.599)
3. Топалова Я., И. Шнайдер (2013) **Ключови проблеми в управлението на водите в България в контекста на Европейските екологични политики**, *Екология и човещина: Хуманитарни измерения и аспекти на екологическите проблеми*, ISBN978-954-9865-15-8, Изд. „Авангард Прима”, София, 212 – 222
4. Todorova Y., Y. Topalova. (2014) **Importance of Main Stream/Tributary interface for nutrient dynamics and microbial communities in upper river subcatchment**. *Annual Research & Review in Biology*, 4 (2): 399-411.
5. Yotinov I., Belouhova M., Schneider I., Topalova Y., (2014) **Application of nanodiamonds in wastewater treatment Technologies**. *Ecological Engineering and Environment Protection*, No 1, 2014, p. 50-61
6. Dinova N., Belouhova M., Schneider I., Topalova Y. (2016). **Functional control of the technologies for biogas production**. *Ecological Engineering and Environment Protection*. 1:52-65.
7. Schneider I., M. Ducheва, I. Yotinov, Y. Todorova, E. Daskalova, Y. Topalova, V. Stefanova (2016) **Effect of mazut on structural and functional indicators of activated sludge in Sofia Wastewater Treatment Plant “Kubratovo”**, *Ecological Engineering and Environment Protection*, N 2, pp. 27-35 /on line/
8. Belouhova M., Topalova Y. (2016). **Investigating the Functional and Structural Adaptation Changes of Biofilm Communities Toward Better Azo-dye Wastewater Treatment**. *British Journal of Environment and Climate Change*, *in press*
9. Schneider I., Y. Topalova (2016) **Risk modelling of organic pollution in lake sediments**, *Journal of Environmental Protection*, 7, 591-601
10. Todorova Y., I. Yotinov, St. Lincheva, Y. Topalova. 2016. **Heavy metals impact on sediment microbial communities in river-dam sequence of small hydropower plant cascade**. *Bulgarian Journal of Soil Science*, 1(1), 51-63.

В. Статии в сборници с пълен текст

1. Lincheva S., L. Kenderov, I. Schneider, I. Yotinov, Y. Topalova (2012) **Influence of exploitation of hydroelectric power plants Lakatnik and Svrazhen on self-purification potential of Iskar River in 2011 year**, *Proceedings of International Conference on Ecology – Interdisciplinary Science and Practice: Part II*, 454 – 460
2. Schneider I., S. Lincheva, L. Ivanova, Y. Topalova (2012) **Modelling of biodegradation process of trivial organic matter in sediments of Lakatnik HEPP**, *Proceedings of International Conference on Ecology – Interdisciplinary Science and Practice: Part I*, 55-60

3. Yotinov I., S. Lincheva, L. Kenderov, I. Schneider, Y. Topalova (2012) **Functional structure of microbial communities – mechanism for management of biotransformation processes in sediments**, Proceedings of International Conference on Ecology – Interdisciplinary Science and Practice: Part I, 100 – 107

Г. Пленарни, бизнес и научни доклади

1. Topalova Y., (2012) „**Ecoinnovations, Bioeconomics, Sustainable Development – Perimeter, Connections, Problems**”, WORLD FORUM FOR A SUSTAINABLE SOCIETY ,15th Annual Conference on Social Sustainability through Competitiveness with Qualitative Growth, 12 - 13 October 2012, Sofia University, Sofia, Bulgaria
1. Топалова Я., И. Шнайдер, Й. Тодорова (2013) **Управлението на водите – екологични, технологични, бизнес измерения в Европейските добри политики**, III Национална конференция с международно участие „Екологично инженерство и опазване на околната среда”, 13-14 юни 2013, София – пленарен доклад
2. Топалова Я., И. Шнайдер (2013) **Ключови проблеми в управлението на водите в България в контекста на Европейските екологични политики**, Конференция „Хуманитарни измерения на екологическите проблеми”, 11 януари 2013 год., София – доклад
3. Топалова Я. 2013, „**Устойчиви иновации в БИОИКОНОМИКАТА**”, (2013) Бизнес форума на сп.“Мениджър” и GLOBUL 2013, Зеленият потенциал на България – Технологии и иновации. София, 2013
4. Topalova Y., R. Dimkov, Y. Todorova, I. Schneider (2014) **Advances in science and education of ecobiotechnologies: bringing the academics and industry together**, Proc. of First National Conference on Biotechnology: 30 Years Biotechnology in Bulgaria, 17-18 October 2014, Sofia, Bulgaria – пленарен доклад с публикувано резюме, р.14-15
5. Topalova Y., Schneider I., Y. Todorova, Belouhova M., Lincheva S., Yotinov I. (2015). **How scientific achievements walk fast to the practice of environmental technologies?** Fourth National Conference with International Participation and Youth Scientific Session EEEP'2015. 3-6 June 2015, Burgas, Bulgaria, plenary report.
6. Топалова Я., Савов Н., (2015) „**Съвместният БИЗНЕС ИНКУБАТОР между СУ“Св.“Климент Охридски“ , Софийско предприятие за третиране на отпадъци – иновации и алгоритми за развитие на технологично предприемачество у младите специалисти**”, 2015
7. Топалова Я. (2015) „**Силата на водата – екологични, образователни и здравно-възпитателни аспекти**”, Юлска лектория Съвременни проблеми на природните науки, 1-4 юли, 2015, Съвместно организиран от СУ „Св.Климент Охридски и Съюз на физиците в България.
8. Топалова Я., (2016) **«Как иновациите в образователната технология на Екологична биотехнология носят икономическа полза на фирмите-партньори и СУ «Св.Климент Охридски», доклад на кръгла маса в Българката търговско-промишлена палата «Иновациите в изследователските университети» май-2016 г. София**

9. Topalova Y., Y. Todorova, I. Schneider, I. Yotinov, V. Stefanova (2016) **Detoxification potential and rehabilitation of activated sludge after shock loading of Sofia's Wastewater Treatment Plant "Kubratovo" with mazut**, Abstract Book of IV International Conference on Water, Energy and Environment (ICWEE), 1-3 June 2016, Burgas, Bulgaria– доклад с публикувано резюме, р. 14-15

Д. Участия в конференции

1. Lincheva S., L. Kenderov, I. Schneider, I. Yotinov, Y. Topalova (2012) **Influence of exploitation of hydroelectric power plants Lakatnik and Svrazhen on self-purification potential of Iskar River in 2011 year**, International Conference on Ecology – Interdisciplinary Science and Practice, 24-26 October 2012, Sofia, Bulgaria – постер
2. Schneider I., S. Lincheva, L. Ivanova, Y. Topalova (2012) **Modelling of biodegradation process of trivial organic matter in sediments of HEPP "Lakatnik"**, International Conference on Ecology – Interdisciplinary Science and Practice, 24-26 October 2012, Sofia, Bulgaria – доклад
3. Schneider I., Y. Topalova (2012) **Dairy wastewater management: basic principles and innovative ecological decisions for problem-solving**, Proc. of 14th International Conference on Sustainable Development and Eco-innovation, 6-8 September 2012, Krakow, Poland – постер с публикувано резюме, р. 97
4. Yotinov I., S. Lincheva, L. Kenderov, I. Schneider, Y. Topalova (2012) **Functional structure of microbial communities – mechanism for management of biotransformation processes in the sediments**, International Conference on Ecology – Interdisciplinary Science and Practice, 24-26 October 2012, Sofia, Bulgaria – доклад
5. Belouhova M., Topalova Y., (2012) **Influence of Nanodiamonds on Key Enzyme Activities of Transformation of Azo-dye Amarant in Model Sand Biofilters**, International conference "Ecology – Interdisciplinary Science and Practice", Sofia 25 – 26 October 2012.
6. Beluhova M, Schneider I, Topalova Y. (2012) **Effect of nanodiamonds on model biphasicazo-detoxification process applied in the critical technological situations**. Младежка научна конференция „Климентови дни“22 – 23 Ноември, 2012 г.
7. Lincheva S., I. Schneider, Y. Topalova (2012) **Dynamics of the functional structure of the sediment microflora during the model process of phenol biodegradation**, Proc. of Youth Conference "Kliment`s days" 2012 (ISSN: 1314-4960), 22-23 November 2012, Sofia, Bulgaria – постер с публикувано резюме, р. 70-71
8. Schneider I., Y. Topalova (2012) **Enzyme activities as a tool for biological control in dairy wastewater treatment**, Proc. of Youth Conference "Kliment`s days" 2012 (ISSN: 1314-4960), 22-23 November 2012, Sofia, Bulgaria – постер с публикувано резюме, р. 71-72
9. Yotinov I., S. Lincheva, L. Kenderov, I. Schneider, Y. Topalova (2012) **Evaluation of the self-purification in the waters of the micro-dams in the small hydro electric power plants (HEPPs) Lakatnik and Svrazhen: potential of the bioalgorithms**, Proc. of Youth Conference "Kliment`s days" 2012 (ISSN: 1314-4960), 22-23 November 2012, Sofia, Bulgaria – постер с публикувано резюме, р. 69-70
10. Todorova Y., Y. Topalova. (2012) **Short-time effect of heavy metals stress on key enzyme indicators in river sediments**. Proc. of Scientific Conference for Young Researchers "Kliment`s days", 22-23 November, 2012, Sofia – постер

11. Schneider I., Y. Topalova (2013) **Kinetic parameters of protease activity of *Peptostreptococcus sp.* as a tool for regulation of dairy wastewater treatment**, Book of Abstracts from International Conference “Bioscience-development and new opportunities” (KLIMENT'S DAYS 2013), 20-22 November 2013, Sofia, Bulgaria – постер с публикувано резюме, p. 96
12. Lincheva S., Y. Todorova, Y. Topalova. (2013) **Long-term assessment of the self-purification potential of technologically influenced ecosystem: the Middle Iskar cascade**. *Proceedings of International Conference “Bioscience - development and new opportunities”, 20-22 November, Sofia – постер*
13. Todorova Y., Y. Topalova. (2013) **Risk management scenario for multiple heavy metal contamination at river sediments in the Middle Iskar cascade**. *Proceedings of International Conference “Bioscience - development and new opportunities”, 20-22 November, Sofia – доклад*
14. Belouhova M., Schneider I., Topalova Y. (2014) **Role of the biofilm microstructuring and the microorganisms' relationships for azo-degradation potential studied by FISH**. “First national conference of Biotechnology – 30 years of Biotechnology in Bulgaria” 17 – 18 October 2014, Sofia, Bulgaria.
15. Schneider I., Y. Topalova (2014) **Risk modelling of organic pollution of lake sediments**, Proc. of First National Conference on Biotechnology: 30 Years Biotechnology in Bulgaria, 17-18 October 2014, Sofia, Bulgaria – доклад с публикувано резюме, p. 25
16. Yotinov I., Y. Todorova, I. Schneider, E. Daskalova, Y. Topalova (2014) **Regulation of phenol biodegradation by *Pseudomonas sp.* with carbon nanoparticles**, Proc. of First National Conference on Biotechnology: 30 Years Biotechnology in Bulgaria, 17-18 October 2014, Sofia, Bulgaria – доклад с публикувано резюме, p. 24
17. Lincheva St., Y. Todorova, Y. Topalova. (2014) **Dynamics of heavy metals in sediments of newly-constructed Middle Iskar Cascade**. *1st National Biotechnology Conference – 30 years biotechnology in Bulgaria, 17 – 18 October 2014, Sofia – постер*
18. Todorova Y., I. Yotinov, St. Lincheva, Y. Topalova. (2014) **Dehydrogenase and phosphatase activities as tools for regulation of bioremediation in sediments**. *1st National Biotechnology Conference – 30 years biotechnology in Bulgaria, 17 – 18 October 2014, Sofia – доклад*
19. Belouhova M., Schneider I., Ivanova I. Topalova Y. (2015). **Does the presence of nanodiamonds applied in azodegradation process affect the biofilm community?** Fourth National Conference with International Participation and Youth Scientific Session EEEP'2015. 3-6 June 2015, Burgas, Bulgaria.
20. Schneider I., N. Dinova, I. Yotinov, E. Daskalova, Y. Topalova (2015) **Comparative assessment of Denitrification / Nitrification processes in water treatment technologies in WWTP “Sadinata” and WWTP “Kubratovo”**, Proc. from IV National Conference with International Participation and Youth Scientific Session "Ecological Engineering and Environment Protection" (EEEEP'2015), 3-6 June 2015, Burgas, Bulgaria – доклад с публикувано резюме, p. 8-9. Работата е отличена с Грамота от НД „ЕИООС” и с Награда от Фондация „Еврика”.
21. Todorova Y., I. Schneider, I. Yotinov, S. Lincheva, Y. Topalova (2015) **Express enzymological indicators for self-purification effectiveness at different types of pollution in lotic ecosystems**, Proc. from IV National Conference with International Participation and Youth Scientific Session "Ecological Engineering and Environment Protection" (EEEEP'2015), 3-6 June 2015, Burgas, Bulgaria – доклад с публикувано резюме, p. 18-20

22. Тодорова Й., И. Шнайдер, И. Йотинов, С. Линчева, Я. Топалова. (2015) **Експресни ензимологични индикатори за ефективността на самопречистване при различни типове замърсяване в лотични екосистеми.** *IV Национална конференция с международно участие и младежка научна сесия „Екологично инженерство и опазване на околната среда” (ЕИООС`2015)*, 3-6 юни 2015, Бургас, България – доклад
23. Йотинов И., А. Фотева, М. Белухова, Й. Тодорова, Я. Топалова. (2015) **Изменение в структурата и функциите на микробните съобщества при биоремедиация на седименти, замърсени с фенол: класическа и молекулярна диагностика.** *IV Национална конференция с международно участие и младежка научна сесия „Екологично инженерство и опазване на околната среда” (ЕИООС`2015)*, 3-6 юни 2015, Бургас, България – доклад
24. Benova E., M. Atanasova, T. Bogdanov, Pl. Marinova, Y. Topalova, Y. Todorova, I. Yotinov, F. Krcma, V. Mazankova, L. Dostal. (2016) **Surface-Wave-Sustained plasma for biomedical and agriculture applications.** *Workshop on Application of Advanced Plasma Technologies in CE Agriculture*, Ljubljana, 17-21 April.
25. Schneider I., M. Ducheва, I. Yotinov, Y. Todorova, E. Daskalova, Y. Topalova, V. Stefanova (2016) **Effect of mazut on structural and functional indicators of activated sludge in Sofia WWTP “Kubratovo”**, ECOLOGY AND HEALTH 2016, 9-10 June 2016, Plovdiv, Bulgaria – доклад
26. Benova E., Y. Topalova, Pl. Marinova, Y. Todorova, M. Atanasova, T. Bogdanov, I. Yotinov, F. Krcma, L. Dostal. (2016) **Surface-Wave-Sustained plasma torch for biomedical applications.** *7th International Workshop and Summer School on Plasma Physics*, 26 June – 02 July, Kiten, Bulgaria.
27. Todorova Y., St. Lincheva, I. Yotinov, Y. Topalova. (2016) **How the risk hydrological events affect the nutrient dynamics in modified river ecosystem?** *XI-th NATIONAL SCIENTIFIC CONFERENCE WITH INTERNATIONAL PARTICIPATION “Ecology and Health”, 09-10 June, Plovdiv – доклад*
28. Йотинов И., Белухова М., Тодорова Й., Топалова Я. (2016) **Метахроматинът – индикатор за микробния детоксикационен потенциал при биоремедиационните технологии.** *Екология и здраве 2016*, 09-10 Юни 2016г.
29. Belouhova M., Yotinov I., Topalova Y. (2016) **Adaptation Mechanisms of the Biofilm Communities in Technologies with Gradually and Shock Concentration Increase of Xenobiotic Pollutants – Functional and FISH analysis**, *The Fourth International Conference on Water, Energy and Environment (ICWEE)* 01-02 June 2016, Burgas.
30. Belouhova M., Topalova Y. (2016) **Biofilm communities’ development in the course of azo-biodegradation of amaranth: FISH and digital diagnostics**, *Ecology and Health*, 09-10 June 2016, Plovdiv.