

## PERSONAL INFORMATION

## Mladenka Novakovic



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## WORK EXPERIENCE

2020 – **Research assistant**

University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety

2017 – 2020 **Junior research assistant**

University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety

**Ministry of education, science and technological development scholarship holder**

2015 - 2017

University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety

## EDUCATION

2014 –2021 **PhD in Environmental Engineering**

University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety

2013 - 2014 **Master in Environmental Engineering**

University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety

**Bachelor in Honours in Environmental Engineering**

2009 - 2013

University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety

## PERSONAL SKILLS

Mother tongue(s) Serbian language

Other language(s)

English language

German language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English language	C1	C1	C1	C1	C1
German language	A2	A2	A2	A2	A2

## Relevant publications

- Štrbac, D., Aggelopoulos, C., Štrbac, G., Dimitropoulos, M., Novaković, M., Ivetić, T., Yannopoulos S.: Photocatalytic degradation of Naproxen and Methylene blue: Comparison between ZnO, TiO<sub>2</sub> and their mixture. *Process Safety and Environmental Protection*, 2018, Vol. 113, pp. 174-183, ISSN: 0957-5820.
- Narevski, A., Novaković, M., Petrović, M., Mihajlović, I., Maoduš, N., Vujić G.: Occurrence of bisphenol A and microplastics in landfill leachate: lessons from South East Europe. *Environmental Science and Pollution Research*, 2021, Vol. 28, pp. 42196–42203, <https://doi.org/10.1007/s11356-021-13705-z>
- Hgeig, A., Novaković, M., Mihajlović I.: Sorption of carbendazim and linuron from aqueous solutions with activated carbon produced from spent coffee grounds: Equilibrium, kinetic and thermodynamic approach. *Journal of Environmental Science and Health, Part B*, 2019, Vol. 54, pp.226-236, ISSN: 0360-1234
- Novaković, M., Štrbac, D., Petrović, M., Štrbac, D., Mihajlović I.: Decomposition of pharmaceutical micropollutant–diclofenac by photocatalytic nanopowder mixtures in aqueous media: effect of optimization parameters, identification of intermediates and economic considerations. *Journal of Environmental Science and Health Part A*, 2020, Vol. 55 No. 4, pp. 483-497 DOI: 10.1080/10934529.2019.1701895.
- Elazabi, M., Draskovic, B., Novakovic, M., Mihajlovic, I., Hgeig A.: Adsorption of linuron and isoproturon pesticides on commercial activated carbon, Norit SA2. *Fresenius Environmental Bulletin*. 2021, Vol. 30, No. 02, pp. 1030-1043, ISSN 1018-4619.
- Bežanović, V., Novaković, M., Štrbac, D., Petrović, M., Ivetić, T., Štrbac, G., Mihajlović I.: Application of zinc tin oxide nanomaterial for adsorption of pharmaceutically active compounds from water. *XI International Symposium on Recycling Technologies and Sustainable Development, Bor, , 2016*, pp. 111-116, ISBN 978-86-6305-051-8.
- Novaković, M., Bežanović, V., Ivetić, T., Štrbac, G., Mihajlović, I., Štrbac, D.: Photodegradation of diclofenac sodium in aqueous solution by ZnO/SnO<sub>2</sub> powder mixture catalyst. *22nd International Symposium on Analytical and Environmental Problems, Segedin*, 10. October 2016, pp. 9-12, ISBN 978-963-306-507-5.
- Hgeig, A., Novaković, M., Vojinović-Miloradov, M., Mihajlović, I.: Separation of pesticide carbendazim from water by activated carbon. *5. International Conference „Ecology of Urban Areas 2016“*, Zrenjanin, 31. September 2016, pp. 151-154, ISBN 978-86-7672-291-4.
- Novaković, M., Bežanović, V., Ivetić, T., Mihajlović, I., Štrbac, G., Štrbac, D., Petrović M.: Efficiency of ZnO/SnO<sub>2</sub> nano powder catalyst for photodegradation of pharmaceutically active water pollutants. *5. International Conference „Ecology of Urban Areas 2016“*, Zrenjanin, 31. September 2016, pp. 138-142, ISBN 978-86-7672-291-4.
- Bežanović, V., Sremački, M., Novaković, M., Štrbac, D., Petrović, M., Mihajlović, I.: Identification of Organic Pollutants in Leachate of MSW Landfill Sites in AP Vojvodina. *9. Eastern European Young Water Professionals Conference, Budapest*, 24-25 May 2017, pp. 573-578.
- Hgeig, A., Novaković, M., Bežanović, V., Mihajlović, I.: Adsorption study of carbendazim pesticide by bentonite clay. *23rd International Symposium on Analytical and Environmental Problems, Szeged*, 9 - 10 October 2017, pp. 203-207, ISBN 978-963-306-563-1.
- Novaković, M., Bežanović, V., Petrović, M., Štrbac, G., Štrbac, D., Mihajlović, I.: Application of nanopowder mixture for photocatalytic decomposition of ibuprofen in aqueous solutions. *1st International Conference the Holistic Approach to Environment, Sisak*, 13-14 September 2018, pp. 530-536, ISBN 2623-677X.
- Novaković, M., Bežanović, V., Petrović, M., Štrbac, G., Štrbac, D., Mihajlović, I.: Application of nanopowder mixture for photocatalytic decomposition of ibuprofen in aqueous solutions, *1st International Conference The Holistic Approach to Environment, Sisak, Republic of Croatia: Association for Promotion of Holistic Approach to Environment*, 13-14 September, 2018, pp. 530-536, ISBN 2623-677X.
- Novaković, M., Petrović, M., Simeunović, U., Mihajlović, I., Sremački, M., Bežanović, V., Štrbac, D.: Heterogenous Photocatalysis with Nano-zinc Oxide as a Possible Solution for Removal of Bisphenol A from Landfill Leachate, *11th Eastern European Young Water Professionals Conference, University of Chemistry and Technology Prague, Prague, Czech Republic*, 1-5 October, 2019, pp.233-234, ISBN: 978-80-7592-054-6. M34
- Petrović, M., Sremački, M., Mihajlović, I., Novaković, M., Milovanović, D., Bežanović, V., Maoduš, N.: Environmental Risk Assessment of Municipal Solid Waste Landfill in the Vicinity of Novi Sad-A Project Review, *11th Eastern European Young Water Professionals Conference, University of Chemistry and Technology Prague, Prague*,
- Štrbac, G., Novaković, M., Štrbac, D., Bubulj, S., Mihajlović, I.: Influence of variation of pH and concentration on efficiency of naproxen removal from mixture of pharmaceuticals by advanced oxidation photocatalysis using ZnO/TiO<sub>2</sub>, *5th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC5) and 14th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta2019)*, Rome, Italy, 27-30 August, 2019, pp. 467-467, ISBN 978-3-940237-59-0.
- Adamov T., Novaković M., Živančev N., Špánik I., Mihajlović I., Petrović M.: Leachate quality assessment of protected water bodies in Serbia and Croatia, *26. International Symposium on Analytical and Environmental Problems, Segedin: University of Szeged, H-6720 Szeged, Dugonics tér 13,Hungary*, 23-24 November, 2020, pp. 80-83, ISBN 978-963-306-771-0.

## Relevant Projects

- Serbian Ministry of education, science and technological development project „Improvement and development of hygienic and technological procedures in the production of animal origin foodstuffs in order to obtain quality and safe products competitive on the world market“, on the subproject „Treatment and quality of waste waters of the meat industry and determination of the presence of emerging substances in order to reduce water contamination“
- Erasmus+ ICT Networking for Overcoming Technical and Social Barriers in Instrumental Analytical Chemistry education, NETCHEM <http://www.netchem.ac.rs/>
- Synthesis and application of new nanostructured materials for the degradation of organic pollutants from municipal landfill leachate in Vojvodina. project number: 142-451-2129/2019-01/02, 2016-2020.
- Risk assessment of environmental ecostatus of Novi Sad in the vicinity of municipal waste landfill, Department for Environmental Protection, City of Novi Sad, project number: VI-501-2/2018-18B-6, 2018-2019.
- Bilateral project Serbia-Slovakia „Development and Implementation of Field and Laboratory Methodologies for Environmental Evaluation of Wetlands“, project number: 337-00-107/2019-09/16, 2019-2020.
- Interreg DTS Tid(y)Up project “F(ol)low the Plastic from source to the sea: Tisza-Danube integrated action plan to eliminate plastic pollution of rivers”, 2020-
- Erasmus+ project “Development of digital approach for occupational health and safety systems in higher education courses – DOHASS”, project no. 2020-1-RS01-KA226-HE-094562, 2021-12-17, 2021-
- Erasmus+ project “Digitalization of laboratory exercises in the classical and instrumental analytical chemistry – DigiLabAC”, 2021-
- Erasmus+ project “Sustainable University Enterprise Cooperation for Improving Graduate Employability (SUCCESS)”, project number: 618975-EPP-1-2020-1-BA-EPPKA2-CBHE-JP, 2020-

## Memberships

2018. International Water Association (IWA)

Courses  
Scholarships  
Certificates

- Learning course on QA/QC, NETREL TEMPUS, University of Novi Sad, from 21 - 24.10.2014.
- Data analysis on chemistry, NETREL TEMPUS, University of Novi Sad, from 26 - 30.01.2015.
- MERLIN Expo training on chemical exposure modelling, Belgrade, Serbia, from 20 - 21.04.2015.
- Waste management as Part of the Urban Metabolism, 15-19.06.2015., University of Novi Sad.
- Estimation of the Measurement Uncertainty in Chemical Analysis, Lifelong Learning Centre of the University of Tartu from 28.03.2016 - 08.05.2016.
- CEEPUS mobility at Faculty of Health Sciences, Ljubljana, Slovenia from 27.01.2017 - 27.02.2017.
- The International Summer School "Instrumental Analytical Techniques in Environmental and Food Safety Control“, University of Nis, Faculty of sciences and Mathematics, Serbia from 18.06.2019.- 21.06.2019.

## Additional information

- Associate in Accredited Laboratory for environmental and occupational monitoring, University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety and Health, Serbia, since 03/2017 – Present
- Member of the organizing committee of the 1<sup>st</sup> DIFENEW International Student Conference - DISC2021 organized within the framework of bilateral cooperation between Serbia and Slovakia, December 2021.