



COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Dragana Tomasevic Pilipovic

Type (Academic or Industrial): Academic

Country: Serbia

Leadership position in the COST: Participant

Working Group in which you are involved: WG3

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Laboratory/Company:

Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad

Laboratory/Company info (limited to 400 characters):

The Environmental Protection Research Group at Faculty of Sciences the has more than 40 years of experience in the field of environmental science and technology with expertise in wastewater monitoring and treatment technologies, drinking water treatment technologies, environmental monitoring and chemistry (transport processes and physical-chemical interactions of organic and inorganic contaminants and microplastic), remediation technologies and risk assessment.

Link to the home page of the Laboratory/Company:

<https://www.dh.uns.ac.rs/department/>

Fields of expertise:

- development of wastewater treatment methods,
- application of advanced oxidation processes using low-cost and nano materials,
- development of methods for the analysis of pollutants in the environment (environmental chemistry) and green chemistry
- remediation of sediment-water system with conventional materials and green nanomaterials.

5 Main publications or patents:

- Tomašević Pilipović D., Kerkez Đ., Dalmacija B., Bečelić-Tomin M., Došić A. (2017) Potential Application of Nano Zero Valent Iron in Environmental Protection, chapter in the book: *Advances in Applications of Industrial Biomaterials*, Springer International Publishing, Page:179-199. eBook ISBN: 978-3-319-62767-0. DOI: 10.1007/978-3-319-62767-0. Hardcover ISBN: 978-3-319-62766-3.
- Kecić V., Kerkez Đ., Prica M., Lužan O., Bečelić-Tomin M., Tomašević Pilipović D., Dalmacija B. (2018) Optimization of azo printing dye removal with oak leaves-nZVI/H₂O₂ system using statistically designed experiment, *Journal of Cleaner Production*, 202:65-80.



- Dubovina M., Kremer D., Grba N., Watson M., Radenović D., Tomasevic-Pilipovic D., Dalmacija B. (2018) Distribution and ecological risk assessment of organic and inorganic pollutants in the sediments of the transnational Begej canal (Serbia-Romania), *Environmental Pollution*, 236:773-784.
- Radenović D., Kerkez Đ., Tomašević Pilipović D., Dubovina M., Grba N., Krčmar D., Dalmacija B. (2019) Long-term application of stabilization/solidification technique on highly contaminated sediments with environment risk assessment, *Science of the Total Environment* 684:186–195.
- Tomašević D., Kozma G., Kerkez Dj., Dalmacija B., Dalmacija M., Bečelić-Tomin M., Kukovec Á., Kónya Z., Rončević S. (2014) Toxic metal immobilization in contaminated sediment using bentonite- and kaolinite-supported nano zero-valent iron, *Journal of Nanoparticle Research*, 16:2548.

Collaborations:

- University of Szeged, Hungary,
- Fraunhofer-Gesellschaft, Germany and
- National water management and water supply companies.

Facilities:

- GC/MSD – Hewlett Packard 5890 Series II/MSD 5971A
- GC/μECD/FID – Agilent technologies 6890N
- Purge & trap Tekmar Dohrmann 3100 Sample Concentrator
- GC/MSD – Agilent technologies 7890A/MSD 5975C
- Microwave digestion and extraction unit – Milestone Star E
- TOC analyzer, Elementar vario toc select
- ICP/MS – Perkin Elmer ELAN 5000
- AA spectrometer Perkin Elmer Analyst 400
- IC – ICS 3000, Dionex
- UV/VIS spectrophotometer 1800, Shimadzu
- UV/VIS spectrophotometer Cintra 1010, GBC Scientific Equipment
- Automated gas sorption analyser (Quantachrom IQ2)
- ICP/MS 7700, Agilent technologies
- LC 1260 Infinity, Agilent technologies
- ASE – A device for the rapid extraction of solid samples, Thermo Scientific Dionex ASE 350
- Thermostat mixer, IKA KS 4000i control
- Evaporator, Biotage TurboVapII
- Sediment sampler, type Beaker sampler for undisturbed sediment sampling, Eijkelkamp 04.20.SA
- Submersible pump sets, suitable for purging and sampling monitoring wells, Eijkelkamp 12.27
- Bailer sampler, Eijkelkamp 12.16
- Portable pump ISCO PTP-150
- Automatic wastewater sampler ISCO 3700FR/3720
- Portable ultrasonic flow meter, PCM 4 Nivus
- Piezometer drilling and installation kit for quick quality assessment