

## PERSONAL INFORMATION



## Maja Turk Sekulic

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Sex Female | Date of birth 15/02/1976 | Nationality Serbian

## POSITION

Associate professor, Department of Environmental Engineering and Occupational Safety and Health, Faculty of Technical Sciences, University of Novi, Trg Dositeja Obradovića 6, 21000, Novi Sad, Serbia

## WORK EXPERIENCE

01.05.2015 – present

Associate Professor  
Faculty of Technical Sciences, University of Novi Sad

17.09.2009 – 30.04.2015

Assistant Professor  
Faculty of Technical Sciences, University of Novi Sad

24.10.2006 – 16.09.2009

Teaching Assistant (MSc)  
Faculty of Technical Sciences, University of Novi Sad

28.12.2004 – 23.10.2006

Teaching Assistant  
Faculty of Technical Sciences, University of Novi Sad

## EDUCATION AND TRAINING

Doctoral Academic  
Studies (2009)

Doctor of Science (PhD)  
Faculty of Technical Sciences, University of Novi Sad

- Study program: Environmental Engineering
- Study field: Environmental and Occupational Safety Engineering
- Title of Doctoral Thesis: *Distribution, deposition and partition processes of polychlorinated biphenyls in heterogeneous multicompartment system*

Master Academic Studies  
(2003 - 2006)

Master of Science (MSc)  
University of Novi Sad, Association of Centres for Interdisciplinary and Multidisciplinary Studies and Research

- Study program: Environmental Engineering

- Study field: Interdisciplinary, Multidisciplinary, Transdisciplinary Studies
  - Title of Master Thesis: *Residual quantities of PCB congeners generated during the war period in former Yugoslavia*
- Bachelor studies (1995 - 2003) Bachelor of Science (BSc)  
Faculty of Technology, University of Novi Sad
- Study program: Chemical Engineering
  - Study field: Technology Engineering
  - Title of Bachelor Thesis: *Investigation of dispersed phase concentration influence on coalescence in porous packed bed of polyurethane*
- 20.03.2006 - 31.03.2006 Workshop Role Of Vulnerability in (Disaster) Risk Reduction  
United Nations University, Institute for Environment and Human Security (UNU-EHS), Bonn, Germany
- 08.07.2007 - 15.07.2007 Summer School of Environmental Chemistry and Ecotoxicology  
Research Centre for Environmental Chemistry and EcoTOXicology, Masaryk University, Brno, Czech Republic
- July / September 2014 Learning courses: Sampling of environmental pollutants and Sample treatment of environmental matrices  
Research Centre for Environmental Chemistry and EcoTOXicology, Masaryk University
- 13.06.2016 - 17.06.2016 Summer School on Toxic Compounds in the Environment  
Research Centre for Environmental Chemistry and EcoTOXicology, Masaryk University, Brno, Czech Republic
- 08.11 -12.11.2016 CEEPUS teacher mobility  
Faculty of Health Sciences, University of Ljubljana, Slovenia
- 28.11.2016 - 02.12.2016 CEEPUS teacher mobility  
Faculty of Pharmacy, University of Sarajevo, Bosnia and Herzegovina
- 27.05.2018 - 01.06.2018 Lecturer in summer school: "Training and research in environmental chemistry and toxicology"  
Faculty of Health Sciences, University of Ljubljana, Slovenia
- 25.03.2019 - 29.03.2019 ERASMUS+ Staff Mobility Facilitation and Teaching Programme  
Environmental Research Institute, North Highland College, University of the Highlands and Islands, Thurso, Scotland
- 03.07.2019 –09.07.2019 ERASMUS mobility for training

SRH Heidelberg University, Heidelberg, Germany

PERSONAL SKILLS

Mother tongue Serbian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1

Organisational/  
managerial skills

- Chair of master academic studies program *Water Treatment and Safety Engineering - TEMPUS*, Department of Environmental Engineering and Occupational Safety and Health, Faculty of Technical Sciences, University of Novi Sad, (2018-present)
- Coordinator of the project for Serbia: *Oasis Innovation Hub for Catastrophe and Climate Extremes Risk Assessment (H2020\_Insurance)*, European Commission's Horizon 2020 Research and Innovation Programme (ID: H2020-SC5-2016-TwoStag, GA: 730381 – H2020\_Insurance, <https://h2020insurance.oasishub.co/>), (2017 – present).
- Project leader: *The use of modern analytical methods for characterization of pollution of drinking water sources in Novi Sad Municipality*, Ministry of Education, Science and Technological Development, Intergovernmental program of bilateral scientific and technological cooperation between the Republic of Serbia and the Slovak Republic (GA: 680-00-140/2012-09/13), (2012-2013).
- MC Member for Serbia: *Sewage biomarker analysis for community health assessment (SCORE)*, ESSEM COST Action ES1307, <https://www.cost.eu/actions/ES1307/#tabs|Name:overview> (2014 – 2018).
- Project leader for Serbia: *Democratia - Aqua – Technica*, DAAD: Ost-West-Dialog: Hochschuldialog mit den Ländern des westlichen Balkans 2020, (01.01.2020 -31.12.2020.)
- Project coordinator for Faculty of Technical Sciences: *New ecological commercial coagulant for water and wastewater treatment*, Proof of Concept, Innovation Fund (ID: 5156)(01.01.2020 -31.12.2020.)
- Serbian Chemical Society:
  - Vice President of the Section for Environmental Chemistry
  - Member of the Board of Directors

Driving licence B category

## ADDITIONAL INFORMATION

## Publications

Pap, S., Kirk, C., Bremner, B., **Turk Sekulic, M.**, Shearer, L., Gibb, S., Taggart, M. (2020). Low-cost chitosan-calcite adsorbent development for potential phosphate removal and recovery from wastewater effluent. *Water Research*, Volume 173, 15 April 2020, 115573.

Pap, S., Kirk, C., Bremner, B., **Turk Sekulic, M.**, Gibb, S., Maletic S., Taggart, M. (2020). Synthesis optimisation and characterisation of chitosan-calcite adsorbent from fishery-food waste for phosphorus removal. *Environmental Science and Pollution Research*: <https://doi.org/10.1007/s11356-019-07570-0>.

**Turk Sekulić, M.**, Boskovic, N., Milanović, M., Grujić-Letić, N., Gligorić, E., Pap, S. (2019). An insight into the adsorption of three emerging pharmaceutical contaminants on multifunctional carbonous adsorbent: Mechanisms, modelling and metal coadsorption.

Journal of Molecular Liquids: Vol. 284, pp. 372–382.

Paunović, O., Pap, S., Maletić, S., Taggart, M. A., Boskovic, N., **Turk Sekulic, M. (2019)**. Ionisable emerging pharmaceutical adsorption onto microwave functionalised biochar derived from novel lignocellulosic waste biomass. *Journal of Colloid and Interface Science*: Vol. 547, pp. 350-360.

**Turk Sekulic, M.**, Boskovic, N., Slavković, A., Garunović, J., Kolaković, S., Pap, S. (2019). Surface functionalised adsorbent for emerging pharmaceutical removal: Adsorption performance and mechanisms. *Process Safety and Environmental Protection*: Vol. 125, pp. 50–63.

Brborić, M., Vrana, B., Radonić, J., Vojinović Miloradov, M., **Turk Sekulić, M. (2019)**. Spatial distribution of PAHs in riverbed sediments of the Danube River in Serbia: Anthropogenic and natural sources. *Journal of the Serbian Chemical Society*: <https://doi.org/10.2298/JSC190129056B>

Gligorić, E., Igić, R., Suvajdžić, Lj., Teoflović, B., **Turk Sekulić, M.**, Grujić-Letić, N. (2019). Methodological Aspects of Extraction, Phytochemical Characterization and Molecular Docking Studies of *Salix caprea* L. Bark and Leaves. *Acta Chimica Slovenica*: DOI: 10.17344/acsi.2018.4829.

Vukelic, Dj., Boskovic, N., Agarski, B., Radonic, J., Budak I., Pap, S., **Turk Sekulic, M. (2018)**: Eco-design of a low-cost adsorbent produced from waste cherry kernels. *Journal of Cleaner Production*, Volume 174: 1620-1628

**Turk Sekulić, M.**, Pap, S., Stojanović, Z., Bošković, N., Radonić, J., Šolević Knudsen, T. (2018): Efficient removal of priority, hazardous and emerging pollutants with *Prunus armeniaca* functionalized biochar from aqueous wastes: Experimental optimization and modeling. *Science of the Total Environment*, Volume 613: 736–750

Adamović, D., Dorić, J., Vojinović Miloradov, M., Adamović, S., Pap, S., Radonić, J., **Turk Sekulić, M. (2018)**: The emission of BTEX compounds during movement of passenger car in accordance with the NEDC. *Science of the Total Environment*, Volume 639: 339-349

Pap, S., Bezanovic, V., Radonic, J., Babic, A., Saric, S., Adamovic, D., **Turk Sekulic, M. (2018)**: Synthesis of highly-efficient functionalized biochars from fruit industry waste biomass for the removal of chromium and lead. *Journal of Molecular Liquids*, Volume 268: 315-325

Milić, N., Milanović, M., Radonić, J., **Turk Sekulić, M.**, Mandić, A., Orčić, D., Mišan, A., Milovanović, I., Grujić-Letić, N., Vojinović Miloradov, M. (2018): The occurrence of selected xenobiotics in the Danube river via LC-MS/MS. *Environmental Science and Pollution Research*, Volume 25: 11074-11083

Radonić, J., Jovčić Gavanski, N., Ilić, M., Popov, S., Batić Očovaj, S., Vojinović Miloradov, M., **Turk Sekulić, M. (2017)**. Emission sources and health risk assessment of polycyclic aromatic hydrocarbons in ambient air during heating and non-heating periods in the city of Novi Sad, Serbia. *Stochastic Environmental Research and Risk Assessment*, Volume 31: 2201–2213

Radonić, J., Kocić Tanackov, S., Mihalović, I., Grujić, Z., Vojinović Miloradov, M., **Turk Sekulić, M. (2017)**: Occurrence of aflatoxin M<sub>1</sub> in human milk samples in Vojvodina, Serbia: Estimation of average daily intake by babies. *Journal of Environmental Science & Health, Part B - Pesticides, Food Contaminants, & Agricultural Wastes*, Volume 52, Issue 1: 59-63

Pap, S., Šolević Knudsen, T., Radonić, J., Maletić, S., Igić, S., **Turk Sekulić, M. (2017)**: Utilization of fruit processing industry waste as green activated carbon for the treatment of heavy metals and chlorophenols contaminated water. *Journal of Cleaner Production*, Volume 162: 958-972

Đogo, M., Radonić, J., Mihajlović, I., Obrovski, B., Ubavin, D., **Turk Sekulić, M.**, Vojinović Miloradov, M. (2017): Selection of optimal parameters for future research monitoring programmes on MSW landfill in Novi Sad, Serbia. *Fresenius Environmental Bulletin*, Volume 26, No. 7: 4867-4875

Pap, S., Radonic, J., Trifunovic, S., Adamovic, D., Mihajlovic, I., Vojinovic Miloradov, M., **Turk Sekulic, M. (2016)**: Evaluation of the adsorption potential of eco-friendly activated carbon prepared from cherry kernels for the removal of Pb<sup>2+</sup>, Cd<sup>2+</sup> and Ni<sup>2+</sup> from aqueous wastes. *Journal of Environmental Management*, Volume 184: 297-306

Stošić, M., Čučak, D., Kovačević, S., Perović, M., Radonić, J., **Turk Sekulić, M.**, Vojinović Miloradov, M., Radnović, D. (2016): Meat industry wastewater: microbiological quality and antimicrobial susceptibility of *E. Coli* and *Salmonella* sp. Isolates, case study in Vojvodina, Serbia. *Water Science and Technology*, Volume 73, No. 10: 2509-2517

Ilić, M., Putnik, S., Prvulović Bunović, N., Vojinović Miloradov, M., Mihajlović, I., **Turk Sekulić, M.**, Radonić, J. (2016): Hepatocellular Carcinoma and Impact of sflatoxin difuranocoumarin derivative system – Case Report. *Srp Arh Celok Lek*, Volume 144(11-12): 661-663

Sremački, M., Milanović, M., Mihajlović, I., Spanik, I., Radonić, J., **Turk Sekulić, M.**, Milić, N., Vojinović Miloradov, M. (2016): Adaptation of screening analysis method for key pollutants in wastewater of meat industry. *Fresenius Environmental Bulletin*, Volume 25, No. 11: 5008-5013

Milanović, M., Sudji, J., Grujić Letić, N., Radonić, J., **Turk Sekulić, M.**, Vojinović Miloradov, M., Milić, N. (2015): Seasonal variations of bisphenol A in the Danube by the Novi Sad municipality, Serbia. *Journal of the Serbian Chemical Society*, Volume 81, No. 3: 333-345

Vojinović-Miloradov M., **Turk Sekulić M.**, Radonić J., Milić N., Grujić-Letić N., Mihajlović I., Milanović M. (2014): Industrial emerging chemicals in the environment. *Hemijska industrija*, Volume 68, No. 1: 51-62

Milić, N., Spanik, I., Radonić, J., **Turk Sekulić, M.**, Grujić, N., Vyviurska, O., Milanović, M., Sremački, M., Vojinović Miloradov, M. (2014): Screening analyses of wastewater and Danube surface water in Novi Sad locality, Serbia. *Fresenius Environmental Bulletin*, Volume 23, No. 2: 372-377

Jovčić, N., Radonić, J., **Turk Sekulić, M.**, Vojinović Miloradov, M., Popov, S. (2013): Identifikacija izvora emisije čestične frakcije policikličnih aromatičnih ugljovodonika u neposrednoj blizini industrijske zone Novog Sada. *Hemijska industrija*, Volume 67, No. 2: 337-348

Milić, N., Milanović, M., Grujić Letić, N., **Turk Sekulić, M.**, Radonić, J., Mihajlović, I., Vojinović Miloradov, M. (2013): Occurrence of antibiotics as emerging contaminant substances in aquatic environment. *International Journal of Environmental Health Research*, Volume 23, No. 4: 296-310

**Turk Sekulić, M.**, Okuka, M., Šenk, N., Radonić, J., Vojinović Miloradov, M., Vidicki, B. (2013): Assessment of atmospheric distribution of polycyclic aromatic hydrocarbons using a molecular structure model. *Atmospheric Research*, Volume 128: 111-119

Radonić, J., Vojinović Miloradov, M., **Turk Sekulić, M.**, Kiurski, J., Djogo, M., Milovanović, D. (2011): The octanol-air partition coefficient, KOA, as a predictor of gas-particle partitioning of polycyclic aromatic hydrocarbons and polychlorinated biphenyls at industrial and urban sites. *Journal of the Serbian Chemical Society*, Volume 76, No. 3: 447-458

Radonić, J., Čulibrk, D., Vojinović Miloradov, M., Kukić, B., **Turk Sekulić, M.** (2011): Prediction of Gas-Particle Partitioning of Polycyclic Aromatic Hydrocarbons Based on M5' Model Trees. *Thermal Science*, Volume 15, No. 1: 105-114

**Turk Sekulić, M.**, Radonić, J., Vojinović-Miloradov, M., Šenk, N., Okuka, M. (2011): Procena atmosfereke raspodele polihlorovanih bifenila i policikličnih aromatičnih ugljovodonika primenom poliparametarskog modela. *Hemijska industrija*, Volume 65, No. 4: 371-380

Radonic, J., **Turk Sekulic, M.**, Vojinovic Miloradov, M., Čupr, P., Klánová, J. (2009): Gas-particle partitioning of persistent organic pollutants in the Western Balkan countries affected by war conflicts. Environmental Science and Pollution Research, Volume 16, Issue 1: 65-72

**Turk, M.**, Jakšić, J., Vojinović Miloradov, M., Klanova, J. (2007): Post-war levels of persistent organic pollutants (POPs) in air from Serbia determined by active and passive sampling methods. Environmental Chemistry Letters (ECL), Journal 5: 109-113

#### Projects

Oasis Innovation Hub for Catastrophe and Climate Extremes Risk Assessment, H2020\_Insurance, H2020-IA-730381, European Commission, H2020 (2017 – present)

Democratia - Aqua – Technica, DAAD: Ost-West-Dialog:Hochschuldialog mit den Ländern des westlichen Balkans 2020, (01.01.2020 -31.12.2020.)

New ecological commercial coagulant for water and wastewater treatment, Proof of concept, Innovation Fund (ID: 5156)(01.01.2020 -31.12.2020.)

ICT Networking for Overcoming Technical and Social Barriers in Instrumental Analytical Chemistry Education, NETCHEM, EAC-A04-2015, Erasmus+ (2016 – present)

Diagnosis, Monitoring and Prevention of Exposure-Related Noncommunicable Diseases, DiMoPEX, COST Action CA15129 (2016 – present)

Training and research in environmental chemistry and toxicology, CIII-SI-0905-02, CEEPUS (2015 – present)

Sewage biomarker analysis for community health assessment, SCORE, COST Action ES1307 (2014 – 2018)

Network for education and training for public environmental laboratories, NETREL, 530554-TEMPUS-1-2012-SK-JPHES, TEMPUS (2012 – 2016)

Improvement and development of hygienic and technological procedures in production of animal originating foodstuffs with the aim of producing high-quality and safe products competitive on the global market, III46009, Ministry of Education, Science and Technological Development, Republic of Serbia (2011 – present)

Characterization of the kinetics and impact of the highly hazardous (emerging) pollutants of the waste streams of the graphic industry, TR34014, Ministry of Education, Science and Technological Development, Republic of Serbia (2011 – present)

Drinking Water Quality Risk Assessment and Prevention in Novi Sad municipality, Serbia, North Atlantic Treaty Organization (ESP.EAP.SFP 984087, The NATO Science for Peace and Security Programme (2011 – 2015)

POPs concentrations in ambient air of the Europe: Application of the passive air sampling technique as a tool for trend determination, and effectiveness evaluation of international conventions, MONET Europe, RECETOX, Masaryk University, Brno, Czech Republic (2009 – present)

Strengthening the Capacity for Implementation of the Directive 76/464/EEC in Vojvodina Region, SAMRS/2007/01/36, Slovak AID (2008 – 2009)

Institutional support of integrated water pollution control and management in

Vojvodina region with application of EU directives, NPOA/G32/2004, Slovak AID (2006 - 2007)

Determination of trends in the ambient air POPs concentrations in the Central and Eastern European Region using the polyurethane foam based passive air samplers, PAS\_CEECs, RECETOX, Masaryk University, Brno, Czech Republic (2006 – 2007)

Floods and human security – Tamis river, April-May 2005, ICA No. JB-2006-ICA-0-0002, United Nations University, Institute for Environment and Human Security, Germany (2005 – 2007)

Assessment of the selected POPs (PCBs, PCDDs/Fs, OCPs) in the atmosphere and water ecosystems from the waste materials generated by warfare in former Yugoslavia, APOPSBAL, ICA2-CT2002-10007, European Commission, The fifth framework Programme (2002 - 2005)

CA COST Action CA15121: Advancing marine conservation in the European and contiguous seas (MarCons), 01.06.2016 – 31.05.2020.

#### Memberships

Serbian Chemical Society

Society of Environmental Toxicology and Chemistry (SETAC)

#### Citations

In total: 437 (h – index 11)

(<https://scholar.google.com/citations?user=mpXJUOoAAAAJ>)