

TIJANA MILIĆEVIĆ

RESEARCH ASSISTANT PROFESSOR



CONTACT

Phone +381 64 23 29 827
E-mail tijana.milicevic@ipb.ac.rs
Website www.envpl.ipb.ac.rs;
https://www.researchgate.net/profile/Tijana_Milicevic
Date and place of birth January 23, 1989, Kruševac, Serbia
Nationality Serbian

RESEARCH INTEREST

- Monitoring and chemical analyses of different samples from the environment (soil, plants, mosses, agricultural products, food supplements, air, water etc.)
- Analytical methods for identification of pollutants in the samples
- Assessment of mobility and bioavailability of the pollutants in the soil-plant-air system
- Biomonitoring for studying and protection of the environment (moss bag technique)
- Environmental risk assessment
- Human health risk assessment
- Environmental law

WORKING EXPERIENCE

- September 2019 - Research Assistant Professor**
Environmental Physics Laboratory
Institute of Physics Belgrade,
A national Institute of Republic of Serbia,
University of Belgrade
- September 2017 - Research Assistant**
September 2019 Environmental Physics Laboratory,
Institute of Physics Belgrade,
University of Belgrade
- June 2015 -**
September 2017 **Research Trainee**
Environmental Physics Laboratory,
Institute of Physics Belgrade,
University of Belgrade
- 2013-2015** **General Project Coordinator**
Foundation Fund Ecotopia, First environmental Serbian
Foundation, Belgrade, Serbia

EDUCATION

- 2014 - 2018** **Doctoral academic studies (PhD)**
Faculty of Chemistry, University of Belgrade, Serbia;
final thesis: *An integrated approach to the investigation of potentially toxic elements and magnetic particles in the soil-plant-air system: bioavailability and biomonitoring*; written and defended in English; (score of the final thesis 10/10)
- January 2017 - April 2017** Department of Bioengineering, Campus Groenenborger, University of Antwerpen, Antwerpen, Belgium, Erasmus+ exchange program during the doctoral dissertation investigations
- 2013 - 2014** **Specialization in the field of Ecological law**, Faculty of Law, University of Belgrade, Serbia;
final thesis: *Legal aspects of the forests protection and their impact on climate changes in Serbia*; (score of the final thesis 10/10)
- 2013 - 2014** **Master academic studies (MSc) in Chemistry**
Faculty of Chemistry, University of Belgrade, Serbia;
final thesis: *Comparison of different extraction procedures for isolating the elements that are bioavailable to plants*; (score of the final thesis 10/10)
- 2008 - 2012** **Bachelor academic studies (BSc) in Environmental Chemistry**, Faculty of Chemistry, University of Belgrade, Serbia; final thesis: *Bioindicators of environmental pollution from the territory of Serbia - possible experiments*; (score of the final thesis 10/10)
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PROJECTS

- 2015 - 2019** **National project** *Investigation of climate change and its influences on environment - Monitoring the Influences, Adaptations, and Offsets*, III43007; Ministry of Education, Science and Technological Development
- 2019 -** **COST project** *Action European Network FOR Chemical Elemental Analysis by Total reflection X-Ray Fluorescence*, CA18130; The European Cooperation in Science and Technology (COST)
- 2019 -** **Project** *Pollution state of soils and food samples in Serbia and Slovakia - bioaccessibility fraction of elements and health risk assessment*, (337-00-107/2019-09/17); Bilateral cooperation with Department of Chemistry, Faculty of Biotechnology and Food Sciences, Slovak University of Agriculture
- 2019 -** **Project** *Persistent organochlorine compounds in human milk and their potential effect on the level of primary DNA damage in human cells*; Bilateral cooperation with Institute for Medical Research and Occupational Health, Zagreb, Croatia
- 2018.** External Associate on the preparation of materials for the modernization of teaching at faculties; project NetChem-ICT Networking for Overcoming Technical and Social Barriers in Instrumental Analytical Chemistry Education; Erasmus+ project; European Union

PROJECTS

- 2017 -** **Project** *Neutron activation analysis of environmental samples and new materials*; Bilateral cooperation with Joint Institute for Nuclear Research, Dubna, Russia
- 2014 -** Expert Associate, corporate and production process presenter on the **project** *Plant Tour*, Coca - Cola Hellenic Bottling Company, Belgrade, Serbia
- 2015 - 2016** **Project** *Atmospheric deposition study in street canyon of Belgrade and Moscow*; Bilateral cooperation with Joint Institute for Nuclear Research, Dubna, Russia
- 2014.** **Project** *Biomonitoring of heavy metals in the air along the main roads of the Belgrade city*; supported by the company NIS Novi Sad and the City of Belgrade
- 2014.** Coordinator on the **project** *My city - Green city*; supported by the Secretariat for Environmental Protection, Belgrade
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GRANTS AWARDS

- 2019.** **Award** *Special Acknowledgment Dr Milena Dalmacija for Doctoral Dissertation which has given the largest scientific contribution in the field of environmental protection at universities in the Republic of Serbia*
- 2017.** **Scientific award** for attending the 14th International Conference on the Biogeochemistry of Trace Elements ICOBTE sponsored by specific program of the Swiss National Science Foundation for conference grants for researchers working in Eastern European countries (SCOPES Grant)
- 2017.** **Erasmus+ grant** for student mobility supported by European Commission
- 2013 - 2014** **Scholarship** for the studies of innovation (specialization) of knowledge in the field of environmental law; Environmental fund Ecotopia and Faculty of law, Belgrade
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TEACHING EXPERIENCE

- 2018 - 2019** Teaching Associate in the experimental design for graduate and master theses at the Department of Applied Chemistry, Faculty of Chemistry, University of Belgrade; co-supervisor on three MSc theses and commission member of the defense of one MSc and two BSc thesis
- 2017.** Associate in the experimental setup for part of MSc thesis, realized in Serbia, of Lodewijk Lefevre *Magnetic monitoring of the impact of atmospheric pollution on vineyards in Serbia* Department of Bioscience Engineering, University of Antwerp, Belgium
- 2014 - 2018** Teaching Associate in the experimental setup and design for graduate and master theses at the Department of Applied Chemistry, Faculty of Chemistry, University of Belgrade (7 MSc and 10 BSc theses)

TECHNICAL SKILLS

- Analytical techniques:
- ICP-OES (inductively coupled plasma atomic emission spectrometry)
 - ICP-MS (inductively coupled plasma mass spectrometry)
 - WD-XRF spectroscopy
 - Magnetic Susceptibility-meter
- Magnetizer and magnetometer for Saturation Isothermal Remanent Magnetization - SIRM analysis
- Programmes:
- Project Manager,
 - SPSS software
 - Statistica
 - OriginPro 9.0
 - R Statistics
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WORKSHOPS

- 2019.** **Speaker** at the workshop Finding the job in the profession - exchange of experience with alumni students of the Environmental Chemistry Program, organized by the Department of Applied Chemistry, Faculty of Chemistry, University of Belgrade
- April 22 - 28, 2018** **International School** on Nuclear Methods for Environmental and Life Science, Budva, Montenegro; organiser: Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research (JINR), Dubna, Russia
- June 1, 2017** **Training day** on building standardized soil spectral libraries; Task 4.2 the H2020 GEO CRADLE project organised by Department of Electrical Engineering and Computer Science Faculty of Engineering Aristotle University of Thessaloniki.
- 2015.** **Project management** - School *Obuke i kursevi* (<http://www.obukeikursevi.com/>)
- 2014.** JEOL SEM and TEM microscopes - **Workshop** SCAN d.o.o., Kranj, Slovenia and JEOL S.A.S. (Europe)
- 2013.** **Development of business competence** - The Youth Offices Belgrade, Serbia 2013. Corporate communication - O&M Consulting (<http://www.odmconsulting.com/>)
- 2013.** **Presentation skills** - Hart Consulting (<http://www.hart.rs/>)
- 2012.** **Business networking** - PWC Consulting (<http://www.pwc.com/>)
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OTHER ACTIVITIES

- 2019 - 2020** **Member** of the organizing committee of *21. European Meeting on Environmental Chemistry*, Novi Sad, Serbia, December 2020
- 2018.** **Member** of the executive committee for organizing the *8. Scientific Symposium Chemistry and Environmental protection EnviroChem2018*, Kruševac, May 30 - June 1, 2018
- 2013.** **Trainee**, Coca-Cola Hellenic Bottling Company, Production sector (project Determination of physicochemical parameters before and after wastewater treatment)
- 2012 - 2013** **Trainee**, Foundation Fund Ecotopia, The first environmental Serbian foundation
- 2015.** **Member** of Serbian Chemical Society
- 2015.** **Member** of European Geoscience Union
- 2015 -** **Member** of Scientific and professional association ECOLOGOS, Belgrade, Serbia
- 1997 - 2004** English language course Language centre (English school) Summerhill (<http://www.summerhill.rs/>)

BIBLIOGRAPHY

Scientific papers in international journals

1. **Milićević T.**, Aničić Urošević M., Relić D., Vuković G., Škrivanj S., Popović A., Integrated approach to environmental pollution investigation - spatial and temporal patterns of potentially toxic elements and magnetic particles in vineyard through entire grapevine season, *Ecotoxicology and Environmental Safety*, 163, 245-254.
2. **Milićević T.**, Aničić Urošević M., Relić D., Vuković G., Škrivanj S., Popović A., Bioavailability of potentially toxic elements in soil-grapevine (leaf, skin, pulp and seed) system and environmental and health risk assessment, *Science of the Total Environment*, 626, 528-545.
3. **Milićević T.**, Aničić Urošević M., Vuković G., Škrivanj S., Relić D., Frontasyeva M. V., Popović A., Assessment of species-specific and temporal variations of major, trace and rare earth elements in vineyard ambient using moss bags, *Ecotoxicology and Environmental Safety*, 2017, 144, 208-215.
4. **Milićević T.**, Relić D., Škrivanj S., Tešić Ž., Popović A., Assessment of major and trace element bioavailability in vineyard soil applying different single extraction procedures and pseudo-total digestion, *Chemosphere*, 2017, 171, 282-293.
5. Vuković G., Aničić Urošević M., Škrivanj S., **Milićević T.**, Dimitrijević D., Tomašević M., Popović A., Moss bag biomonitoring of airborne toxic element decrease on a small scale: a street study in Belgrade, Serbia, *Science of the Total Environment*, 2015, 542, 394 - 403.

Books (Chapters)

1. Aničić Urošević M., **Milićević T.**, Moss bag biomonitoring of airborne pollutants as an ecosustainable tool for air protection management: Urban vs. agricultural scenario, Editors: Vertika Shukla and Narendra Kumar, Springer, 29 - 60.
2. **Milicević T.**, Legal aspects of forest protection and their impact on climate change in the Republic of Serbia in Environmental protection in legislation and practice, Editor: Dr. Mirjana Drenovak Ivanovic, Missions of the OSCE in Serbia, 51 - 60.

International meetings (Proceedings):

1. Stojić A., Perišić A., Jovanović G., Stanišić S., Stanić N., **Milićević T.**, Parsing environmental factors which shape particulate matter pollution using explainable artificial intelligence (oral presentation), The 7. International WeBIOPATR Workshop & Conference, October, 2019, In press.
2. Jovanović G., Stojić A., Perišić M., Stanišić S., Stanić N., **Milićević T.**, Explainable relationships of particulate matter and environmental factors in an urban area (poster presentation), The 7. International WeBIOPATR Workshop & Conference, October, 2019, In press.
3. **Milićević T.**, Aničić Urošević M., Relić D., Škrivanj S., Vuković G., Popović A., Investigation of macro- and microelements in soil, grapevine and air in organic vineyard: biomonitoring, ecological implications and health risk assessment (oral presentation), 14. Regional Conference Environment to Europe - EnE18, 05.06.2018. Belgrade, 2018, 65- 69.
4. Vuković G., Janković M., Aničić Urošević M., **Milićević T.**, Popović A., Convergence chromatography as an emerging technique for determination of PAHs in biomonitors (poster presentation), The 6. International WeBIOPATR Workshop & Conference, September 6-8, 2017, 43.

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International meetings (Proceedings):

5. **Milićević T.**, Relić D., Aničić Urošević M., Vuković G, Škrivanj S., Popović A., Grapevine accumulation of potentially toxic elements from soil; Implications and health risk assessment (oral presentation), 15. International Conference on Environmental Science and Technology (CEST2017), August 31 - September 2, 2017, Rhodes, Greece, 1-5, CEST2017_00469.
 6. **Milićević T.**, Relić D., Vuković G., Perišić M., Majstorović D., Aničić Urošević M., Popović A., Survey of potentially toxic element pollution of the vineyard soil (poster presentation), 13. International Conference on Fundamental and Applied Aspects of Physical Chemistry, Physical Chemistry 2016, September 26 - 30, 2016, Belgrade, Serbia, Proceedings, 739 - 742.
 7. Vuković G., Aničić Urošević M., Škrivanj S., **Milićević T.**, Dimitrijević D, Tomašević M., Popović A., Upgrade of micro-scale siting of airborne toxic elements by moss bag Technique: crossroad, two- and one-lane street study (poster presentation), The 5. International WeBIOPATR Workshop & Conference, October 14 - 16, 2015, Belgrade, Serbia, Proceedings, 48 - 53.
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International meetings (Book of abstracts):

1. **Milićević T.**, Relić D., Orlić J., Chastaneiro A, Aničić Urošević M., Samson R., Popović A., Non-destructive techniques (WD-XRF and magnetic measurements) for investigation of the pollution in different vineyards in Serbia (oral presentation), 20. European Meeting on Environmental Chemistry, December 2-5 2019, Lodz, Poland, Book of abstracts, 63.
2. **Milicević T.**, Stanišić S. , Jovanović G., Perišić M., Šošćarić A., Stojić A., Explainable benzo[a]pyrene in an indoor environment (poster presentation), 20. European Meeting on Environmental Chemistry, December 2-5 2019, Lodz, Poland, Book of abstracts, 98.
3. Cerović J., **Milićević T.**, Relić D., Determination of bioaccessible fraction of elements in the soil and the concentration of elements in tap and well water; risk assessment for children and people (poster presentation), 7. Conference of the Young Chemists of Serbia, 2 November, 2019, Belgrade, Book of abstracts.
4. **Milićević T.**, Relić D., Aničić Urošević M., Sandra Š., Popović A., Assessment of major and trace element content in two grapevine species and wine (poster presentation), UNIFOOD Conference, 210. Anniversary of University of Belgrade, October 5-6, 2018, Book of abstracts, 196.
5. **Milićević T.**, Aničić Urošević M., Relić D., Vuković G., Škrivanj S., Samson, R., Popović A., The grapevine leaves as bioindicators of air pollution by toxic elements and magnetic particles in experimental, commercial and organic vineyards (oral presentation), The 8. International Workshop on Biomonitoring of Atmospheric Pollution (BIOMAP 8), July 2-7, 2018, Dubna, Russia, Book of abstracts, 37.
6. Aničić Urošević M., **Milićević T.**, Vuković G., Relić D., Frontasyeva M. V., Popović A., Moss bag biomonitoring of air pollution: urban versus agricultural scenario (oral presentation), The 8. International Workshop on Biomonitoring of Atmospheric Pollution (BIOMAP 8), July 2-7, 2018, Dubna, Russia, Book of abstracts, 17.
7. Aničić Urošević M., Vuković G., **Milićević T.**, Deljanin I., Nikolić M., Stević N., Samson R., Magnetic fingerprint of particle and particle-bound air pollution on deciduous tree leaves in urban area (poster presentation), The 8. International Workshop on Biomonitoring of Atmospheric Pollution (BIOMAP 8), July 2-7, 2018, Dubna, Russia, Book of abstracts, 53.

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International meetings (Book of abstracts):

8. Vuković G., Aničić Urošević M., Herceg Romanić S., Mendaš G., Ilić M., **Milićević T.**, Frontasyeva M.V., Organochlorine pesticides and polychlorinated biphenyls in the moss *Hypnum cupressiforme* and topsoil sampled in Serbia (poster presentation), 31. ICP Vegetation Task Force Meeting, March 5-8, 2018, Dessau-Roßlau, Germany, Book of abstracts, 84.
9. **Milićević T.**, Aničić Urošević M., Relić D., Vuković G., Orlić J., Škrivanj S., Popović A., Monitoring, environmental and health risk assessment of potentially toxic elements in the soil-plant system in vineyard area (oral and poster presentations), The International Conference on the Biogeochemistry of Trace Elements ICOBTE, ETH Zurich, Switzerland, July 16-20, 2017, 395.
10. **Milićević T.**, Relić D., Vuković G., Škrivanj S., Popović A., Aničić Urošević M., Grapevine accumulation of potentially toxic elements from vineyard soil (poster presentation), 18. International Conference on Heavy Metals in the Environment, September 12 - 15, 2016, Ghent, Belgium, Book of abstracts, 415.
11. Aničić Urošević M., Vuković G., **Milićević T.**, Vergel K., Frontasyeva M., Tomašević M., Popović A., Moss bag biomonitoring of airborne toxic element decrease on a small scale: crossroad and two - and one - lane street study (poster presentation), 29. ICP Vegetation Task Force Meeting, February 29 - March 4, 2016, Dubna, Russian Federation, Book of abstract, 40.
12. **Milićević T.**, Relić D., Popović A., Determination of bioavailable macro- and microelements from agricultural soil using different extractants (poster presentation), Book of Abstracts, European Geoscience Union General Assembly, April 12 - 17, 2015, Vienna, Austria, Geophysical Research Abstracts, Vol. 17, EGU2015 - 1138.

National meetings (Book of abstracts):

1. **Milićević T.**, Aničić Urošević M., Relić D., Vuković G., Škrivanj S., Popović A., Assessment of potentially toxic elements bioavailability in the soil-plant-air system in different vineyard ambients in Serbia: biomonitoring, environmental and health risk implications (oral presentation), 8. Symposium Chemistry and Environmental Protection, Kruševac 29.05.-01.06.2018, Book of abstracts, 67-68.
2. Vuković G., **Milićević T.**, Aničić Urošević M., Herceg Romanić S., Mendaš G., Ilić M., Popović A., Persistent organic compound across Serbia - Indications of soil and vegetation (moss) pollution (poster presentation), 8. Symposium Chemistry and Environmental Protection, Kruševac 29.05.-01.06.2018, Book of abstracts, 153-154.
3. Radulović K., **Milićević T.**, Orlić J., Lolić A., Relić D., *Određivanje elemenata u uzorcima umetničkih glina i glazura: procena rizika za ispitivane elemente po ljudsko zdravlje* (poster presentation), in Serbian, VI Memorial Scientific Meeting of Environmental Protection *Docent dr Milena Dalmacija*, Novi Sad, Srbija, 29.03.-30.3.2018, Book of abstracts, Z01.
4. **Milićević T.**, Relić D., Popović A., Correlation between macro- and microelements isolated from the vineyard soil by different extractant methods (poster presentation), 7th Symposium Chemistry and Environmental Protection, June 12 - 15, 2015, Palić, Serbia, Book of Abstracts, 229 - 230.
5. **Milićević T.**, Relić D., Popović A., Assesment of CH₃COOH, Na₂EDTA, CaCl₂, NH₄NO₃ and distilled water extraction procedures and microwave digestion for leaching of macro- and microelements from vineyard soil (poster presentation), 7.Symposium Chemistry and Environmental Protection, June 12 - 15, 2015, Palić, Serbia, Book of Abstracts, 252 - 253.
6. Vuković G., Aničić M., **Milićević T.**, Tomašević M., Škrivanj S., Popović A, Moss-bag biomonitoring of small-scale decline in toxic element content: crossroad, two- and one-lane street study (poster presentation), 7. Symposium Chemistry and Environmental Protection, June 12 - 15, 2015, Palić, Serbia, Book of Abstracts, 192 - 193.