




**PERSONAL
INFORMATION**
Alisa Selović
 Muftije Džabića 4, 71000 Sarajevo, Bosna i Hercegovina

 +387 62 367 611

 alisa.selovic@pmf.unsa.ba


 ORCID 0000-0002-1622-5154

 <https://scholar.google.com/citations?user=wHCtRCgAAAAJ&hl=en&oi=ao>
EMPLOYMENT
University of Sarajevo - Faculty of Science

Department of Chemistry, Division of Analytical Chemistry

 Zmaja od Bosne 35, 71 000 Sarajevo, Bonia and Herzegovina

Room: 136/I

Assistant Professor in the field of Analytical chemistry
 + 387 33 279 880

 alisa.selovic@pmf.unsa.ba
<http://hemija.pmf.unsa.ba/nastavno-osoblje/doc-dr-alisa-selovic/>
WORK EXPERIENCE

2018 – present	Assistant professor in the field of Analytical chemistry at the Department of chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina
2011–2018	Senior teaching assistant in the field of Analytical chemistry at the Department of chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina
2005-2011	Teaching assistant in the field of Analytical chemistry at the Department of chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina
2004-2005	Student assistant at the Department of chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina

EDUCATION

- PhD in Chemistry**, Faculty of Science, University of Sarajevo
2011–2018 Doctoral dissertation: "Remediation of shooting range soil contaminated with Ba, Cr and Pb by chemical and biological methods"
- Master of chemical sciences**, Faculty of Science, University of Sarajevo
2007–2011 Master thesis: "Validation and measurement uncertainty of determination of heavy metals from a shooting range soil using the AAS method after firing small-caliber ammunition"
- Graduated chemical engineer**, Faculty of Science, University of Sarajevo
2000–2004 Diploma thesis: "Determination of metals in animal liver by AAS-flame technique"

PERSONAL SKILLS

Native language	Bosnian				
Foreign languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Participation in projects

- Project title** Application of indicators in the assessment of the state of water courses in the canton of sarajevo and bioremedia as a perspective protection solution
- Project holder** Prof. dr. Renata Bešta-Gajević
- Involvement** Collaborator
- Financier** Ministry of Science, Higher Education and Youth of Sarajevo Canton
- Duration** 2022-2023
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- Project title** Increasing the degree of accumulation of heavy metals in selected hyperaccumulator plant species using the priming method
- Project holder** Prof. dr Erna Karalija
- Involvement** Collaborator
- Financier** Ministry of Science, Higher Education and Youth of Sarajevo Canton
- Duration** 2019-2021

Project title	Preparation of project proposals for Horizon 2020 from the program. ERC - Strating grant
Project holder	Prof. dr Erna Karalija
Involvement	Collaborator
Financier	Ministry of Civil Affairs of Bosnia and Herzegovina
Duration	2020-2021
Project title	Development of batch method for removal of heavy metals from aqueous solutions using lignocellulose waste-based biosorbents
Project holder	Prof. dr Mustafa Memić
Involvement	Collaborator
Financier	Federal Ministry of Education and Science
Duration	2018-2020
Project title	TEMPUS – NETREL project: Network for education and training for public environmental laboratories
Project holder	Prof.dr. Tidža Muhić-Šarac
Involvement	Collaborator
Financier	EU European Community
Duration	2012-2016
Project title	INTERREG-CARDS/PHARE – Adriatic New Neighbourhood Programme – «SIMCA No.38», Prof.dr. Tidža Muhić-Šarac
Project holder	Faculty of Science of the University of Sarajevo as a partner to the Department of Environmental Chemistry, University of Venice, Italy
Involvement	Young researcher
Financier	EU European Community
Duration	2007-2009
Memberships	<p>Bosnian National TrainMiC - European Commission; Joint Research Centre, IRMM – Institute for reference materials and measurement, Geel, Belgija, member of the organizing committee</p> <p>Member of the Technical Committee BAS TC7 of the Institute for Standardization of BiH in the field of environment</p> <p>Member of the Organizing committee of the International congress of chemists and technologists of Bosnia and Herzegovina</p> <p>Member of the Society of chemists and technologists of the Sarajevo Canton</p> <p>Member of the ethics committee at the Faculty of Science, University of Sarajevo</p>

Awards and recognitions Award for scientific work of the academic and scientific research staff of the University of Sarajevo for 2019 year

Seminars and educational gatherings Effective Researcher and Pedagogic Starification in Academics, University of Sarajevo, Faculty of Science, Sarajevo (2021)

Determination of the content of pesticides and pharmaceuticals in surface waters using the HPLC-DAD method, TEMPUS-NETREL (Network for education and training for public environmental laboratories) project, University of Sarajevo, Faculty of Science, Sarajevo (2016)

International training in metrology in chemistry „Principles and applications of metrology in chemistry“, University of Sarajevo, Faculty of Science, Department of Chemistry, Institute of Metrology and European Commission Joint Research Centre, IRMM – Institute for Reference Materials and Measurements, Belgium, Sarajevo, Bosnia and Herzegovina (2013)

International training in metrology in chemistry „Principles and applications of metrology in chemistry“, University of Sarajevo, Faculty of Science, Department of Chemistry, Institute of Metrology and European Commission Joint Research Centre, IRMM – Institute for Reference Materials and Measurements, Belgium, Sarajevo, Bosnia and Herzegovina (2012)

International training in metrology in chemistry „Principles and applications of metrology in chemistry“, University of Sarajevo, Faculty of Science, Department of Chemistry, Institute of Metrology and European Commission Joint Research Centre, IRMM – Institute for Reference Materials and Measurements, Belgium, Sarajevo, Bosnia and Herzegovina (2011)

International training in metrology in chemistry „Principles and applications of metrology in chemistry“, University of Sarajevo, Faculty of Science, Department of Chemistry, Institute of Metrology and European Commission Joint Research Centre, IRMM – Institute for Reference Materials and Measurements, Belgium, Sarajevo, Bosnia and Herzegovina (2010)

International training in metrology in chemistry „Principles and applications of metrology in chemistry“, University of Sarajevo, Faculty of Science, Department of Chemistry, Institute of Metrology and European Commission Joint Research Centre, IRMM – Institute for Reference Materials and Measurements, Belgium, Sarajevo, Bosnia and Herzegovina (2009)

International training in metrology in chemistry „TrainMiC convention“ Celje, Slovenija (2009)

International training in metrology in chemistry „Principles and applications of metrology in chemistry“, University of Sarajevo, Faculty of Science, Department of Chemistry, Institute of Metrology and European Commission Joint Research Centre, IRMM – Institute for Reference Materials and Measurements, Belgium, Sarajevo, Bosnia and Herzegovina (2008)

Quality in South East Europe: Obstacles and opportunities, European Commission, Joint Researches Centre-IRMM, Radovljica, Slovenia (2008)

International training in metrology in chemistry „TrainMiC training of New Trainer“ by IRMM – Institute for Reference Materials and Measurements, Maribor, Slovenija (2007)

International training in metrology in chemistry „Principles and applications of metrology in chemistry“, IRMM – Institute for Reference Materials and Measurements, Belgium, with the SENARC (Slovenian European natural Sciences research Centre), Maribor, Slovenija (2007)

International training in metrology in chemistry „Principles and applications of metrology in chemistry“, University of Sarajevo, Faculty of Science, Department of Chemistry, Institute of Metrology and European Commission Joint Research Centre, IRMM – Institute for Reference Materials and Measurements, Belgium, Sarajevo, Bosnia and Herzegovina (2006)

Scientific papers Šehović, E., Memić, M., Sulejmanović, J., Hameed, M., Begić, S., Ljubijankić, N., **Selović, A.**, Ghfar, A.A. and Sher, F. (2022). Thermodynamic valorisation of lignocellulosic biomass green sorbents for toxic pollutants removal. *Chemosphere*, 307, p.135737.

Karalija, E., **Selović, A.**, Bešta-Gajević, R. and Šamec, D. (2022). Thinking for the future: Phytoextraction of cadmium using primed plants for sustainable soil clean-up. *Physiologia Plantarum*, 174(4), p.e13739.

Subašić, M., Šamec, D., **Selović, A.**, Karalija, E. (2022). Phytoremediation of Cadmium Polluted Soils: Current Status and Approaches for Enhancing. *Soil Systems*, 6(1): 3.

Gradašćević, N., **Selović, A.**, Mujić, N., Smječanin, N., Karaman, N. and Nuhanović, M. (2022). Study of radionuclides and heavy metal migration through soil profiles (0–60 cm) at points near the targets of NATO strikes in 1995: environmental monitoring and assessment. *Environmental Monitoring and Assessment*, 194(8), pp.1-15.

Ismičić-Tanjo, Dž., Huremović, J., **Selović, A.** and Šehović, E. (2021). Human Health Risk Assessment of Mercury in Soil–Plants System. *International Journal of Environmental Research*, 15(5), pp.797-805

Pilić, S., Kalić, E., **Selović, A.** (2021) The content of essential and toxic metals in the hair of children with autistic spectrum disorders, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 56, 13-21.

Sulejmanović J., Jurković J., Ajanović T., **Selović A.**, Nuhanović M., Ajanović A., Kovo K., Durić L., Botonjić M. (2021) Extractability of sodium ions from soil, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 58, 7-18.

Karalija, E., **Selović, A.**, Dahija, S., Demir, A., Samardžić, J., Vrobel, O., Čavar Zeljković, S. and Parić, A. (2021). Use of seed priming to improve Cd accumulation and tolerance in *Silene sendtneri*, novel Cd hyper-accumulator. *Ecotoxicology and Environmental Safety*, 210: 111882

Ibrahimović, E., Pugonja, E., Trako, N., Huremović, J., **Selović, A.**, Sulejmanović, J. Omanović, R. (2021) Heavy metal contamination of street dust of Canton Sarajevo, Bosnia and Herzegovina – health risk assessment, *Human and Ecological Risk Assessment: An International Journal*, 28(1), 100-113

Šabanović, E., Memić, M., Sulejmanović, J., **Selović, A.** (2020) Simultaneous adsorption of heavy metals from water by novel lemon-peel based biomaterial, *Polish Journal of Chemical Technology*, 22(1), 46-53.

Karalija, E. and **Selović, A.** (2018). The effect of hydro and proline seed priming on growth, proline and sugar content, and antioxidant activity of maize under cadmium stress. *Environmental Science and Pollution Research*, 25(33), 33370-33380.

Huremović, J., Muhić-Šarac, T., Memić, M., Žero, S., **Selović, A.** (2015) Multielement and rare earth element composition of soil and lichen from Sarajevo, Bosnia and Herzegovina, *Ekolozi*, 24, 95, 1-9. (*Web of science: Science Citation Index Expanded, Impact factor: 0.84 za 2015*)

Sulejmanović, J., Memić, M., Huremović, J., **Selović, A.** (2015) Simultaneous preconcentration and determination of Co(II), Cr(III), Fe(III), Mn(II), Ni(II) and Pb(II) by FAAS using silica gel modified with niobium(V) oxide, *Chemical Science Review and Letters*, 4(14), 662-670. (CAS, DOAJ)

Huremović, J., Braha, B., Muhić-Šarac, T., **Selović, A.**, Memić, M. (2014) Sadržaj teških metala u začinskom bilju s tržišta u Sarajevu, Bosna i Hercegovina, *Kemija u industriji*, 63 (3-4), 77–81. (*Analytical Abstracts*,

Chemical Abstracts, EBSCO host, SCOPUS, DOAJ)

De Pieri, S., Arruti A., Huremović J., Sulejmanović, J., **Selović, A.**, Đorđević, D., Fernández-Olmo, I., Gambaro, A. (2014) PAHs in the urban air of Sarajevo: levels, sources, day/night variation, and human inhalation risk, *Environmental Monitoring and Assessment*, 186, 1409-1419. (*Web of Science Core Collection: Science Citation Index Expanded, Impact Factor: 1.592 za 2014, Q2*)

Sulejmanović, J., Muhić-Šarac, T., Memić, M., Gambaro, A., **Selović, A.** (2014) Trace metal concentrations in size-fractionated urban atmospheric particles of Sarajevo, Bosnia and Herzegovina, *International Journal of Environmental Research*, 8(3), 711-718. (*Web of Science Core Collection: Science Citation Index Expanded, Impact Factor: 1.105 za 2014, Q2*)

Kurtagić, H., Memić, M., **Selović, A.** (2013) Effect of particle size on the dissolution of glibenclamide. *International Journal of Pharmacy and Pharmaceutical Sciences*, 5, 775-779. (*EBSCO, CAS*)

Bećiragić, S., Huremović, J., Muhić-Šarac, T., Memić, M., **Selović, A.**, Žero, S. (2013) Metal levels in surface soils after different extraction procedures, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 41, 1-5. (*Chemical Abstracts*)

Velispahić, A., Huremović, J., **Selović A.**, Sulejmanović, J. (2012-2013) Određivanje sadržaja kroma u biljnom materijalu, *Radovi - Hrvatsko društvo za znanost i umjetnost*, XIV-XV, 200-206. (*CAB PUBLISHING-UK*)

Delić, E., Huremović, J., Sulejmanović, J., **Selović A.** (2012-2013) Određivanje teških metala u udžbeničkoj hartiji, *Radovi - Hrvatsko društvo za znanost i umjetnost*, XIV-XV, 222-226. (*CAB PUBLISHING-UK*)

Šehbajraktarević, E., Huremović, J., **Selović, A.**, Šehbajraktarević K. (2011) Sezonske varijacije teških metala u oborinama na području Kantona Sarajevo, *Kemija u industriji*, 61 (1) 1-7. (*Analytical Abstracts, Chemical Abstracts, EBSCO host, SCOPUS, DOAJ*)

Memić, M., **Selović, A.** and Sulejmanović, J. (2011) Antifungalna aktivnost odabranih policikličnih aromatičnih ugljovodonika prema ligninolitičkim gljivama. *Hemijska industrija*, 65(5), pp.575-581. (*Journal Citation Reports - Thompson Reuters, SCOPUS*)

Memić, M., **Selović, A.** and Mahmutović, O. (2011) Toxicity of chlorinated phenols against ligninolytic fungi *Hypoxylon Fragiforme* and *Coniophora Puteana*. *Works of the Faculty of Forestry University of Sarajevo*, (2). (*CAB Abstracts, EBSCO*)

Poster and oral presentations

Masleša, A., Sulejmanović, J., Šehović, E., Begić, S., Sher, F. and **Selović, A.** (2022) Biosorption removal study of Methylene blue dye from aqueous solution on a Citrus limon peel, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, 30.06-02.07, Knjiga sažetaka, PP-ENC-04, p.104.

Subašić, M., Šamec, D., **Selović, A.** and Karalija, E. (2021). Phytoremediation of cadmium polluted soils. 1st International conference „Food & Climate Change“, 15-16. October, Koprivnica, Croatia.

Konjević, I, **Selović, A.**, Sulejmanović, J., Ostojić, J. (2019) Ultrasound-assisted extraction of heavy metals from different particle size fractions of soil, 7th *Conference of the Young Chemists of Serbia*, Beograd, Serbia, 02.11., Knjiga sažetaka, CA PP 18

Kevilj-Olovčić, A., Memić, M., **Selović, A.** (2016) Verification of standard method BAS ISO 7890-3:2002: Water quality – determination of nitrates, 2nd International congress of chemists and chemical engineers of Bosnia and Herzegovina, 21.-23. October, Sarajevo, BiH. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, special issue, p.43.

Brković, M., Memić, M., **Selović, A.** (2016) Verification and application of standard method, BAS EN26777:2000 for determination of nitrites in domestic water, 2nd International congress of chemists and chemical engineers of Bosnia and Herzegovina, 21.-23. October, Sarajevo, BiH. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, p.48.

Olovčić, A., Memić, M., **Selović, A.** (2014) Content of Fe, Cu and Pb in human teeth enamel and dentin in relation to the age, Congress of chemists and chemical engineers of Bosnia and Herzegovina with international participation, Sarajevo, BiH, 10.-12. October, Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue OP-13. (oral presentation)

De Pieri, S., Arruti, A., Huremovic, J., Sulejmanovic, J., Muhic-Sarac, T., Memic, M., **Selovic, A.**, Đorđević, D., Fernández-Olmo, I., Gambaro, A. and Barbante, C. (2012) PAHs in Sarajevo city gas phase distribution in night and day samples source recognition and human inhalation risk, XXIII Congresso Nazionale della Divisione di Chimica Analitica, Societa Chimica Italiana, Isola d'Elba (16.-20.9.), poster prezentacija, Book of abstracts, P126.

Huremović, J., Gambaro, A., Muhić-Šarac, T., Radaelly, M., Memić, M., Stortini, A.M., **Selović, A.**, Smajić, J., Pieri, S.D. (2009) PM-10 and heavy metals in particulate matter of Sarajevo town, Bosnia and Herzegovina, 5th BioMAP, 5th International Workshop on Biomonitoring of Air pollution, Buenos Aires, Argentina, poster prezentacija, Book of Abstracts BM09048.

Muhić-Šarac, T., Sulejmanović J., Huremović, J., **Selović, A.**, Memić, M. (2009) Heavy metals in particulate matter of Sarajevo town, Bosnia and Herzegovina, 2nd

Symposium of chemistry and environment, Bar, Montenegro, poster prezentacija, PS1109, Book of Abstracts, 128.

Kavšek, D., **Selović, A.**, Muhić-Šarac, T., Brodnjak Vončina, D. (2009) Določevanje težkih kovin v pesku po streljanju z malokalibarsko municijo, Slovenski kemijski dnevi, 24.-25.9., Maribor, Slovenija. Zbornik referata Slovenskog kemijskog društva, 101.

Muhić-Šarac, T., Robović, A., Memić, M., Džudžević-Čančar, H., **Selović, A.** (2007) Validation of spectrophotometric methods for determination of phosphorus in fertilizer, 2nd Academic summer school on education in metrology in chemistry, Krakov, Poland, 23.-26.6.

Boloban, A., Muhić-Šarac, T., Memić, M. (2005) Detection of metals in animal liver by atomic absorption spectrometry, 12th Young Investigators', Seminar on analytical chemistry, YISAC 2005, Sarajevo, 5.-10.7., p.38