





**PERSONAL
INFORMATION****Dr. Šehović (Šabanović) Elma**

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 [Elma Šehović \(Šabanović\) - Google Scholar](#)

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Cited: **173** (04.december 2022)


H-indeks: 7

i10-indeks: 5

WORK EXPERIENCE

 **Faculty of Science University of Sarajevo**
Department of chemistry, Division for analytical chemistry
Zmaja od Bosne 33-35, 71 000 Sarajevo, Bosnia and Herzegovina
Office: 130/I

Senior teaching assistant for analytical chemistry

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Odsjek za hemiju - Dobro došli - Elma Šehović (unsa.ba)

EMPLOYMENT

- | | |
|---------------|--|
| 2021– present | Research fellow within the society: International Society of Engineering Science and Technology, United Kingdom |
| 2019–present | Senior teaching assistant for analytical chemistry at Department of chemistry, Division for analytical chemistry, Faculty of Science University of Sarajevo. |
| 2015–2019 | Teaching assistant for analytical chemistry at Department of chemistry, Division for analytical chemistry, Faculty of Science University of Sarajevo. |

EDUCATION

- 2016–2021 **PhD – III study cycle**, Faculty of Science University of Sarajevo. Doctoral dissertation: “*Study of heavy metal ions sorption from aqueous solutions on lemon peel - batch method*“. Mentor: Prof.dr. Jasna Huremović
- 2013–2014 **Master of Chemical Engineering**, Faculty of Science University of Sarajevo. Master thesis: “*Pulverized pumpkin as a sorbent material for preconcentration of metal ions*“. Mentor: Prof. dr. Mustafa Memić
- 2009–2013 **Bachelor of Chemical Engineering**, Faculty of Science University of Sarajevo. Bachelor thesis: „*Pulverized banana peel as a new sorbent for preconcentration of heavy metals*“. Mentor: Prof.dr. Mustafa Memić
- 2005–2009 Public Institution „Srednja medicinska škola Sarajevo“- pharmaceutical technician, Sarajevo
- 1997–2005 Public Institution Elementary School „Šejh Muhamed ef. Hadžijamaković“, Sarajevo

PERSONAL SKILLS

Mother tongue **Bosnian**

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2.2	B2.2	B2.2	B2.2	B2.2

Certificate: POLIGLOT School of Foreign Languages and Informatics, Sarajevo
 Levels: A1/2: Basic user -B1/2: Independent user -C1/2 Proficient user
 Common European Framework of Reference for Languages

ADDITIONAL INFORMATION

Trainings & courses

september 2016. *Training & Research for Academic Newcomers, University of Sarajevo, 2016 (pedagogical education)*

Projects

Participated in the realization of four scientific research projects:

Title *Study of a pilot plant for the removal of heavy metals from industrial wastewater using sorbents based on agro-waste*

Leader *prof. dr. Mustafa Memić (2019), doc.dr. Jasmina Sulejmanović (2020), Faculty of Science University of Sarajevo*

Participant *Contributor- Young researcher*

Financier *Ministry of Education, Science and Youth, Sarajevo Canton*

Period *2 years: 2019 - 2021*

Title *Development of a batch method for the removal of heavy metals from aqueous solutions using biosorbents based on lignocellulosic waste*

Leader *prof. dr. Mustafa Memić, Faculty of Science University of Sarajevo*

Participant *Contributor- Young researcher*

Financier *Federal Ministry of Education and Science*

Period *2 years: 2018-2020*

Title *Synthesis, characterization and antitumor properties of new ruthenium complexes with O, N and S - donor ligands*
Leader *Prof.dr. Nevzeta Ljubijankić, Faculty of Science University of Sarajevo*
Participant *Contributor- Young researcher*
Financier *Federal Ministry of Education and Science*
Period *1 year: 2016*

Title **TEMPUS – NETREL PROJECT: Network for education and training for public environmental laboratories**
Leader *prof.dr. Tidža Muhić-Šarac, Faculty of Science University of Sarajevo*
Participant *Contributor*
Financier *-*
Period *4 years: 2012-2016.*

Conferences / trainings / events

- 2022 *25th Conference on Process Integration for Energy Saving and Pollution Reduction - PRES'22, 05-08.09.2022, Bol, Croatia.*
4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 30.06-02.07, Sarajevo, B&H.
- 2021 *Participant of the international research workshop (Effective Researcher and Pedagogic Stratification in Academics), University of Sarajevo, Faculty of Science, Sarajevo (14.12.)*
- 2019 *26th Croatian Meeting of Chemists and Chemical Engineers with International Participation, Šibenik, Croatia.*
- 2018 *3rd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, B&H.*
Sixth international scientific conference "June 5th - World environment day", Bihać, B&H.
Manifestacija: "Otvoreni dani hemije" na Odsjeku za hemiju, Prirodno-matematičkog fakulteta u Sarajevu, (13.-14.04.)
- 2016 *2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, B&H.*
Obuka: „Određivanje sadržaja pesticida i farmaceutika u površinskim vodama metodom HPLC-DAD“, TEMPUS-NETREL („Network for education and training for public environmental laboratories“) projekat, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Sarajevo, (08.-12.02.)
Obuka: „Određivanje pesticida u sedimentu i polifenolnih jedinjenja u površinskim vodama primjenom GC-MS“, TEMPUS-NETREL („Network for education and training for public environmental laboratories“) projekt, Univerzitet u Banjoj Luci, Prirodno-matematički fakultet, Banja Luka, (25.-29.01.)
- 2015 *Obuka: „QA/QC u laboratorijama za ispitivanje uzoraka iz životne sredine“, TEMPUS-NETREL („Network for education and training for public environmental laboratories“) projekt, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Sarajevo, (20.-24.04.)*
Obuka: „Priprema uzoraka iz životne sredine-voda“, TEMPUS-NETREL („Network for education and training for public environmental laboratories“) projekt, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Sarajevo, (02.-06.02.)
- 2014 *1st Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, B&H.*

Membership(s)

- Member of the International Society of Engineering Science and Technology, UK
- Member of the Organizing Committee of the International Congress of Chemists and Technologists of Bosnia and Herzegovina.
- Member of the Society of Chemists and Technologists of Sarajevo Canton.

Awards and recognitions

- Award for scientific work of the academic and scientific research staff of the University of Sarajevo for 2019 year.

BIBLIOGRAPHY

Original scientific papers in journals

1. Bobar Denis, Huremović Jasna, Korjenić Enad, Selović Alisa, Bobar Sejit, **Šehović Elma (2022)**. Bioaccumulation of metals in fish of different diets from hydroaccumulations on the Neretva River, Bosnia and Herzegovina. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* (**Accepted for publication** – 27.October 2022.)
2. M Nuhanović, E **Šehović**, N Smječanin, D Hodžić, A Vinković (2022). Assessment of Natural and Anthropogenic Radionuclides in Urban Soil of Sarajevo (Bosnia and Herzegovina). *Radiochemistry*, 64, 416–423. (Web of Science - Science Citation Index Expanded; Scopus) <https://doi.org/10.1134/S1066362222030201>
3. **Šehović, E.**, Memić, M., Sulejmanović, J., Hameed, M., Begić, S., Ljubijankić, N., ... & Sher, F. (2022). Thermodynamic valorisation of lignocellulosic biomass green sorbents for toxic pollutants removal. *Chemosphere*, 307, 135737. (Web of Science Core Collection: Science Citation Index Expanded, Current Contents Agriculture, Biology & Environmental Sciences, Impact factor: 8.943 za 2022, Q1) <https://doi.org/10.1016/j.chemosphere.2022.135737>
4. Sulejmanović J., Memić M., **Šehović E.**, Omanović R., Begić S., Pazalja M., Ajanović A., Azhar O. and Sher F., 2022. Synthesis of green nano sorbents for simultaneous preconcentration and recovery of heavy metals from water, *Chemosphere*, 133971 (Web of Science Core Collection: Science Citation Index Expanded, Current Contents Agriculture, Biology & Environmental Sciences, Impact factor: 7.086 za 2020, Q1) <https://doi.org/10.1016/j.chemosphere.2022.133971>
5. Jasmina Sulejmanović, Neira Kovač, Mustafa Memić, **Elma Šabanović**, Sabina Begić, Farooq Sher, 2021. Selective removal of lead ions from aqueous solutions using SiO₂–MoO₃: Isotherm, kinetics and thermodynamic studies. *Case Studies in Chemical and Environmental Engineering*, 3: 100083 (DOAJ) <https://doi.org/10.1016/j.cscee.2021.100083>

6. Dženana Ismičić-Tanjo, Jasna Huremović, Alisa Selović, **Elma Šehović, 2021.** Human Health Risk Assessment of Mercury in Soil–Plants System. *International Journal of Environmental Research*, 15:797–805 (Web of Science - Science Citation Index Expanded; Scopus, ... Impact factor: 2.479 (2020)) <https://doi.org/10.1007/s41742-021-00357-7>
7. **Elma Šabanović**, Mustafa Memić, Jasmina Sulejmanović, Alisa Selović, **2020.** Simultaneous adsorption of heavy metals from water by novel lemon-peel based biomaterial. *Polish Journal of Chemical Technology*, 22(1): 46-53 (Web of Science - Science Citation Index Expanded; Scopus, ... Impact factor: 1.125 (2020)) <https://doi.org/10.2478/pjct-2020-0007>
8. Jasmina Sulejmanović, Mustafa Memić, **Elma Šabanović**, Nevzeta Ljubijankić, **2019.** A tantalum(V) oxide impregnated silica gel surface: application as a promising adsorbent for simultaneous heavy metal preconcentration. *Analytical Methods*, 11: 6184 – 6192 (Web of Science Core Collection-Science Citation Index Expanded; Current Contents Agriculture, ... Impact factor: 2.378 (2019)). <https://doi.org/10.1039/C9AY01974J>
9. **Elma Šabanović**, Tidža Muhić-Šarac, Mirza Nuhanović, Mustafa Memić, **2019.** Biosorption of uranium(VI) from aqueous solution by *citrus limon* peels: kinetics, equilibrium and batch studies. *Journal of Radioanalytical and Nuclear Chemistry*, 319(1): 425-435 (Web of Science - Science Citation Index Expanded; Scopus, ... Impact factor: 1.371 (2020)) <https://doi.org/10.1007/s10967-018-6358-3>
10. Hajdo Diana, Memić Mustafa, Domitrović Robert, **Šabanović Elma. 2019.** Changes in mineral content in trainees' blood and urine due to high-intensity training. *Glasnik hemicara i tehnologa Bosne i Hercegovine*, 53: 29-35. <https://doi.org/10.35666/ghtbh.2019.53.05>
11. Aida Vehab, Jasna Huremović, Sabina Žero, **Elma Šabanović. 2019.** Essential and toxic metals content in hen eggs at different geographic area in Bosnia and Herzegovina. *Annals. Food Science and Technology*, 20(1): 97-104. [ESSENTIAL-AND-TOXIC-METALS-CONTENT-IN-HEN-EGGS-AT-DIFFERENT-GEOGRAPHIC-AREA-IN-BOSNIA-AND-HERZEGOVINA.pdf \(researchgate.net\)](https://www.researchgate.net/publication/338111111)
12. Jasmina Sulejmanović, **Elma Šabanović**, Sabina Begić, Mustafa Memić, **2018.** Molybdenum(VI) oxide-modified silica gel as a novel sorbent for the simultaneous solid-phase extraction of eight metals with determination by flame atomic absorption spectrometry, *Analytical Letters*, 52(4): 588-601 (Web of Science-Science Citation Index Expanded, Current Contents,..., Impact factor:1.206 (2017)) [doi:10.1080/00032719.2018.1481418](https://doi.org/10.1080/00032719.2018.1481418)
13. Nevzeta Ljubijankić, Miroslava Stanković, Vele Tešević, Sanja Grgurić-Šipka, Milka Jadranin, Sabina Begić, **Elma Šabanović, 2018.** Cytokinesis block micronucleus assay in human lymphocytes after exposure to Ru(III) thiosemicarbazone complexes in vitro. *Rasayan Journal of Chemistry*, 11(2): 647– 652 (SCOPUS, CAB International, EBSC,..., RG Journal Impact: 0.29 (2015)). [10.31788/RJC.2018.1123004](https://doi.org/10.31788/RJC.2018.1123004)

14. Šemsa Abdić, Mustafa Memić, **Elma Šabanović**, Jasmina Sulejmanović, Sabina Begić, **2018**. Adsorptive removal of eight heavy metals from aqueous solution by unmodified and modified agricultural waste: tangerine peel, *International Journal of Environmental Science and Technology*, 1-8 (Current Abstracts Science, Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, CAB International, EBSCO,..., Impact factor: 2.037 (2017)). <https://doi.org/10.1007/s13762-018-1645-7>
15. **Elma Šabanović**, Mustafa Memić, Jasmina Sulejmanović, Jasna Huremović, **2016**. Sorption of metals on pulverized pumpkin (*Cucurbita Pepo L.*) peels, *Analytical Letters*, 49(15): 2446-2460 (Web of Science, Current Contents, Science Citation Index Expanded,..., Impact factor:1.15 (2016)). <https://doi.org/10.1080/00032719.2016.1152580>
16. **Elma Šabanović**, Mustafa Memić, Jasmina Sulejmanović, Jasna Huremović, **2015**. Pulverized banana peel as an economical sorbent for the preconcentration of metals, *Analytical Letters*, 48 (3): 442-452 (Web of Science, Current Contents, Science Citation Index Expanded,..., Impact factor: 1.088 (2015)). <https://doi.org/10.1080/00032719.2014.947534>

Scientific papers at conferences

1. Jasmina Sulejmanović, Ena Skopak, **Elma Šehović**, Adnan Zahirović, Farooq Sher, (**2022**) WASTE BIOMASS OF POMEGRANATE (PUNICA GRANATUM) AS GREEN BIOSORBENT MATERIAL FOR WATER REMEDIATION, 25th Conference on Process Integration for Energy Saving and Pollution Reduction - PRES'22, Bol, Croatia, 05-08.09.2022, Book of Abstracts, PRES22.0168 (oral presentation)
2. Sher F., Sulejmanović J., Begić S., Ziani I., Smječanin N., Karadža A., **Šehović E.**, Omanović R., Nuhanović M. (**2022**) ELECTROCOAGULATION COUPLED WITH OXIDATION AS AN EFFECTIVE APPROACH FOR INDUSTRIAL WASTEWATER TREATMENT, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, 30.06-02.07, Book of Abstracts, PP-ENC-23, p.123.
3. 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, Book of Abstracts, PP-ENC-04, p.104.
4. **Šabanović E.**, Memić, M. BIOSORPTION REMOVAL MECHANISM OF U(VI) IONS FROM AQUEOUS SOLUTION. *26th Croatian Meeting of Chemists and Chemical Engineers with International Participation*. (Šibenik, Hrvatska 09-12 April **2019**), Book of Abstracts, P-D9, p: 225;
5. Hajdo, D., **Šabanović, E.**, Domitrović, R., Memić, M. EFFECTS OF HIGH INTENSITY TRAINING ON MINERAL CONTENT CHANGES IN BLOOD AND URINE OF ATHLETES. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina.(Sarajevo, BiH 19-21 October **2018**), Special Issue-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, PP-AC-10, p: 40;

6. Memić, M., Šabanović, E., Nuhanović, M. APPLICATION OF LIGNOCELLULOSIC WASTE FOR URANIUM REMOVAL FROM AQUEOUS SOLUTIONS. Sixth international scientific conference "June 5th - World environment day". (Bihać, BiH 18-19 June **2018**). The book of abstracts, p: 45;
7. Omanović, R., Memić, M., Šabanović, E. APPLICATION OF GRAPEFRUIT PEEL AS BIOSORBENT FOR REMOVAL OF COPPER(II), LEAD(II), CADMIUM(II) AND ZINC(II) FROM AQUEOUS SOLUTION, 2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina. (Sarajevo, BiH 21-23 October **2016**), Special Issue-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, PP-AEC-02, p: 30;
8. Šabanović E., Memić M., Svraka I. THE USE OF PULVERIZED CUCURBITA PEPO PEEL FOR THE PRECONCENTRATION OF CO AND NI IONS FROM AQUEOUS SOLUTIONS, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation (Sarajevo, BiH 10-12 October **2014**), Special Issue-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, p: 36.
9. Svraka I., Memić M., Šabanović E. DETERMINATION OF Fe AND Mn FROM AQUEOUS SOLUTIONS AFTER PRECONCENTRATION ON YTTRIUM (III) OXIDE, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation. (Sarajevo, BiH 10-12 October **2014**), Special Issue-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, p: 42.