

PERSONAL INFORMATIONS



dr Jelena Ostojić

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Data of birth: December 27th, 1983

Place of birth: Sarajevo, Bosnia and Herzegovina

Nationality: Bosnian and Herzegovinian



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<https://scholar.google.com/citations?user=0hNtYg4AAAAJ&hl=en>

EMPLOYMENT

University of Sarajevo, Faculty of Science
Department of Chemistry, Division for Physical Chemistry

📍 Zmaja od Bosne 35, 71 000 Sarajevo, Bosnia and Herzegovina

Room: 332/III

Position: **Assistant Professor for Physical Chemistry**

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WORKING EXPERIENCE

18/07/2018 - Assistant Professor for Physical Chemistry at Department of Chemistry Faculty of Science University of Sarajevo, Bosnia and Herzegovina

14/11/2013 – 18/07/2018 Senior Research and Teaching Assistant for Physical Chemistry at Department of Chemistry Faculty of Science University of Sarajevo, Bosnia and Herzegovina

18/02/2010 – 14/11/2013 Research and Teaching Assistant for Physical Chemistry at Department of Chemistry Faculty of Science University of Sarajevo, Bosnia and Herzegovina

Experience in teaching

Assistant for laboratory practice in Physical Chemistry

Undergraduate studies courses:

- *Physical Chemistry I, Physical Chemistry II, Corrosion and protection, Kinetics, Catalysis*
- *Selected Topics in Physical Chemistry*

EDUCATION

- 2018 **Doctor of Chemical Science**, Faculty of Science, University of Sarajevo
Thesis: "RESEARCH OF INHIBITING ACTIVITIES OF SELECTED DERIVATIVES OF BORONIC ACID AND INFLUENCE OF DIFFERENT PHYSIOLOGICAL ELECTROLYTES ON THE PEROXIDASE ACTIVITY" Field: Physical chemistry Chemistry
- 2013 **Master of Chemical Science**, Faculty of Science, University of Sarajevo
Thesis: "APPLICATION OF BUTLER VOLUMER EQUATION FOR VOLTAMETRIC SENSOR CAPACITY TESTING" Field: Physical chemistry Chemistry
- 2009 **Graduated Engineer of Chemistry**, Faculty of Science, University of Sarajevo
Thesis: "CORROSION TESTING OF GALVANIZED WATER PIPES IN THE FUNCTION OF CONCENTRATION OF CHLORIDE IONS" Field: Physical chemistry Chemistry

PERSONAL SKILLS

Mother language Bosnian

Other languages

	Understanding		Speaking		Writing
	Listening	Reading	Speaking interaction	Listening	Reading
English	C1	C2	C1	C1	C1
German	A1	A1	A1	A1	A1

Certificate: Syllabus Foreign Language School, Sarajevo

Degrees: A1/2: Beginner - B1/2: Independent user – C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills ▪ Advanced (MS Office, Joomla)

Driving license ▪ Category B

OTHER INFORMATIONS

Training

Training & Research for Academic Newcomers, University of Sarajevo, 2016
(pedagogic education)

Research Projects

Title *Investigation of bioactive compounds from Dalmatian plants: their antioxidant, enzyme inhibition and health properties*

Type *International Research Project*

Project leader *Mladen Miloš*

Participation *Researcher*

Financier *Croatian Science Foundation*

Duration 01.09.2015 - 31.08.2019

Participation at Conferences

- October 2016 *2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation*, Sarajevo, Bosnia and Herzegovina
- October 2014 *1st Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation*, Sarajevo, Bosnia and Herzegovina
- May 2013 *Regional Symposium on Electrochemistry - South East Europe*
- February 2012 *IX Meeting of Young Chemical Engineers*, Zagreb, Croatia

Memberships

Society of Chemists and Chemical Engineers of Canton Sarajevo

BIBLIOGRAPHY

Original Scientific Papers

Papers in Journals indexed by Web of Science – Current Contents Connect®

1. Kasapović D., Klepo L., Ostojić J., Korać F. (2022) Investigation of Inhibitory Effect of the *Rubus idaealis* L. Extract on Corrosion of Copper, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 59. p 1-12
2. Haverić, A., Durmić-Pašić, A., Alić, A., Mujezinović, I., Smajlović, A., Ostojić, J., Ahatović, A., Hadžić, M., Prašović, S., Haverić, S. and Galić, B., 2020. Biochemical and histomorphological findings in Swiss Wistar rats treated with potential boron-containing therapeutic-K2 [B3O3F4OH]. *Journal of Trace Elements in Medicine and Biology*, 62, p.126642.
3. Šćepanović, J., Korać, F., Gutić, S., Ostojić, J., Herenda, S., Bunjo, A., Korać, S. (2019). Corrosion Inhibition of Iron in Seawater Using Rosemary extracts (*Rosmarinus officinalis* L.), *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 52, 1-10. (Chemical Abstracts Service, EBSCO Host, Web of Science Core Collection - Emerging Sources Citation Index)
4. Herenda, S., Ostojić, J., Miloš, M., Hasković, E., Hasković, D., Deljković, E. (2019). The Effect of an ACE Inhibitor (Perindopril) on Peroxidase Activity In Vitro, *International Journal of Electrochemical Science*, 14, 10130-10138. (Web of Science, Science Citation Index Expanded- SCIE)
5. Burović, S., Korać, F., Huremović, J., Ostojić, J., (2018). Atmospheric Corrosion of Metals in Urban Area, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 51, 25-33. (Chemical Abstracts Service, EBSCO Host, Web of Science Core Collection - Emerging Sources Citation Index)
6. Herenda, S., Ostojić, J., Hasković, E., Hasković, D., Miloš, M., Galić, B. Electrochemical Investigation of the Influence of K2[B3O3F4OH] on the Activity of Immobilized Superoxide Dismutase, *Int. J. Electrochem. Sci*, 2018 (13), pp. 3279-3287

7. Sušić, A., Klepo, L., Islamagić, E., Ostojic, J., Focak, M. and Suljević, D. Nicotine allergy in correlation with different sources and individual predispositions. *Albanian Medical Journal*. 2018 (1) pp. 13-19
8. Ostojic, J., Herenda, S., Bešić, Z., Miloš, M. and Galić, B., Advantages of an Electrochemical Method Compared to the Spectrophotometric Kinetic Study of Peroxidase Inhibition by Boroxine Derivative. *Molecules*, 2017. 22(7), p.1120.
9. Ostojic, J., Herenda, S., Galijasevic, S., Galic, B. and Milos, M., Inhibition of Horseradish Peroxidase Activity by Boroxine Derivative, Dipotassiumtrioxohydroxytetrafluorotriborate $K_2[B_3O_3F_4OH]$. *Journal of Chemistry*, 2017. ID 8134350.
10. Bešić Z., Herenda S., Stanković T., Ostojic J. (2017) Determination of kinetic effect of Metoprolol and Ranitidine on HRP- modified GC electrode biosensor. *International Conference on Medical and Biological Engineering in Bosnia and Herzegovina 16-18, March, Sarajevo (CMBEBIH 2017)*. IFMBE Proceedings, Springer, Singapore, vol 62. p (410-414) (Thomson Reuters, Scopus index, Google scholar)
11. Ivankovic, S., Stojkovic, R., Galic, Z., Galic, B., Ostojic, J., Marasovic, M. and Milos, M., 2015. In vitro and in vivo antitumor activity of the halogenated boroxine dipotassiumtrioxohydroxytetrafluorotriborate ($K_2 [B_3O_3F_4OH]$). *Journal of enzyme inhibition and medicinal chemistry*, 30(3), pp.354-359.
12. Islamović, S., Korać, F., Ostojic, J., Kezo, M., Gutić, S., Koštroman, L., Halilović, A. (2013). Korozijske karakteristike sirovog i eloksiranog aluminija. *Kemija u industriji: Časopis kemičara i kemijskih inženjera Hrvatske*, 62(7-8), 241-246.

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13. Halilović, N., Šehovac, S., Ostojic, J., Avdić, N., Gojak-Salimović, S. (2016). Spectrophotometric Quantification of Nitrite in Dried Meat, *Works of the Faculty of Agriculture and Food Sciences, University of Sarajevo*, Vol. LXI, No. 66/1, p. 138.
14. Šehovac, S., Halilović, N., Ostojic, J., Gojak-Salimović, S. (2016). Evaluation of Antioxidant Activity of Aqueous Extracts from Nettle Leaf (*Urtica dioica* L.) Using Briggs-Rauscher Reaction, *Works of the Faculty of Agriculture and Food Sciences, University of Sarajevo*, Vol. LXI, No. 66/1, p. 164.
15. F. Korać, S. Gutić, I. Zukić, J. Ostojic, S. Herenda, S. Gojak-Salimović, Anticorrosion performance of eco-friendly paint coatings, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 41 (2013) p. 37- 47 (Chemical Abstracts)
16. Ostojic, J., Gojak-Salimović, S., Korać, F., Gutić, S. and Islamović, S., 2013. Influence of Monomer Concentration on Capability of Voltammetric Polypyrrole Based Cation Sensor Using Modified Butler-Volmer Equation. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 40 (2013), p 21, 24. (Chemical Abstracts)

17. F. Korać, S. Gutić, I. Semić, I. Kozica, S. Gojak, S. Islamović, J. Ostojić, Electrochemical characteristics of welded joints on stainless steel in maritime atmosphere, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 38 (2012) p. 19-24 (Chemical Abstracts)

Papers at Conferences

Papers at Conferences

1. Krezić, D., Gojak-Salimović, S., **Ostojić, J.** *Application of the Briggs-Raucher for Measurement of Antioxidant Activity of Coffee*, 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 21-23, October, Sarajevo, Book of Abstracts, (2016), p.126.
2. Stanković, T., Herenda S., Bešić, Z., Korać, F., **Ostojić, J.** *Investigation of the Effect of Ranitidine on the Peroxidase Activity on a Modified Glassy Carbon Electrode*, 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 21-23, October, Sarajevo, Book of Abstracts, (2016), p.132.
3. Bešić, Z., Herenda S., Đokić, N., **Ostojić J.**, Korać, F. *Chronoamperometric Determination of the Michaelis-Menten Constants of Immobilized Peroxidase*, 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 21-23, October, Sarajevo, Book of Abstracts, (2016), p.131.
4. Herenda S., **Ostojić J.**, Bešić, Z., Đokić, N., Galić B., Miloš, M. *Horseradish Peroxidase Inhibition by Dipotassium trioxohydroxytetrafluorotriborate, $K_2[B_3O_3F_4OH]$ Evaluation of an Electrochemical Method - Chronoamperometry*, 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 21-23, October, Sarajevo, Book of Abstracts, (2016), p.130.
5. Sakač, N., Herenda S., Korać, F., **Ostojić J.**, Bešić, Z. *A Novel, Low-cost, Disposable Wooden Pencil Graphite Electrode for Peroxide Determination*, 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 21-23, October, Sarajevo, Book of Abstracts, (2016), p.46.
6. **Ostojić J.**, Herenda S., Galić B., Miloš, M. *Inhibitory Effect of Phenylboronic Acid on Horseradish Peroxidase Activity*, 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 21-23, October, Sarajevo, Book of Abstracts, (2016), p.129.

7. Sprečo, L., Korać, F., **Ostojić, J.**, Herenda, S. *HIBISCUS EXTRACT (Hibiscus syriacus L.) AS A CORROSION INHIBITOR SELECTED TARGETS IN SULFURIC ACID*, XVIII YUCORR, International Conference, Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, April 12.-15.2016. Tara-Serbia, C E R T I F I C A T E, (2016) No: 10/16
8. Bešić, Z., Đokić, N., Herenda, S., **Ostojić, J.**, Gutić, S., Klepo, L. *Immobilization of Peroxidase on GC Electrode*, XI susret mladih kemijskih inženjera, Zagreb, Knjiga sažetaka, (2016) p. 109
9. Halilović, N., Šehovac, S., **Ostojić, J.**, Avdić, N., Gojak-Salimović, S. (2015). *Spectrophotometric Quantification of Nitrite in Dried Meat*, 26th International Scientific-Expert Conference of Agriculture and Food Industry, 27.-30.19.2015., Sarajevo, Book of Abstracts, p. 74.
10. Šehovac, S., Halilović, N., **Ostojić, J.**, Gojak-Salimović, S. (2015). *Evaluation of Antioxidant Activity of Aqueous Extracts from Nettle Leaf (Urtica dioica L.) Using Briggs-Rauscher Reaction*, 26th International Scientific-Expert Conference of Agriculture and Food Industry, 27.-30.19.2015., Sarajevo, Book of Abstracts, p. 93.
11. Herenda S., **Ostojić J.**, Klepo L., Galić B. *Determination influence of inhibiting platinum acid on the activity of catalase*, 1st Conference on Medical and Biological Engineering in Bosnia and Herzegovina, 13-15, March, Sarajevo, Book of Abstracts, (2015), p.83
12. Herenda S., **Ostojić J.**, Gojak-Salimović S., Galić B. *Investigation of Cisplatin on the Activity of Catalase*, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 10-12, October, Sarajevo, Book of Abstracts, (2014), p.138.
13. Veletovac I., **Ostojić J.**, Korać F., Gutić S., Herenda S., Vidic D. *Inhibition of Iron Corrosion with Lavender Extracts as Eco-acceptable Inhibitors*, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 10-12, October, Sarajevo, Book of Abstracts, (2014), p.141.
14. Gojak-Salimović S., **Ostojić J.**, Herenda S., Galić B. *The Effect of H_2PtCl_6 on the Belousov-Zhabotinsky Reaction*, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 10-12, October, Sarajevo, Book of Abstracts, (2014), p.145.
15. Modrić A., Burčul, F., Marasović, M., **Ostojić, J.**, Galić, B., Miloš, M. *A study of the inhibition of butyrylcholinesterase by dipotassiumtrioxohydroxytetrafluorotriborate $K_2[B_3O_3F_4OH]$* , 7th Central European Congress on Food, May 21-24, Ohrid, Macedonia, (2014)

16. **Ostojić, J.**, Islamović, S., Klepo, L., Korać, F., Čopra-Janićijević, A., Krešić, D. *Determination of ascorbic acid in pharmaceutical samples by cyclic voltammetry*, Fourth Regional, South East Europe, Symposium on Electrochemistry, May 26-30, Ljubljana, Slovenia, Book of Abstract, (2013) p. 73.
17. **Ostojić, J.**, Islamović, S., Korać, F., Gutić, S., Džananović, N., Begović, M. *Korozivno ponašanje aluminijske u prisustvu vodenog ekstrakta lista Hibiscus syracus L. Malvaceae*, XI susret mladih kemijskih inženjera, Zagreb, Knjiga sažetaka, (2012) p. 155.
18. Semić, I., **Ostojić, J.**, Gutić, S., Korać, F., Čavar, S. *The Impact of some 4-Methylcoumarins on the Physico-Chemical Characteristic of Zinc Coating*. IX Susret mladih hrvatskih kemijskih inženjera, 16.-17.02.2012. Zagreb, Hrvatska
19. Islamović, S., Korać, F., **Ostojić, J.**, Kezo, M., Gutić, S., Koštroman, L., Halilović, A. *Korozivne karakteristike aluminijske u uvjetima eksploatacije*, XI susret mladih kemijskih inženjera, Zagreb, Knjiga sažetaka, (2012) p. 136.
20. Juričić, T., Korać, F., Gutić, S., Islamović, S., **Ostojić, J.**, Gojak, S. *Modifikacija korozionog ponašanja željeza polianilinskim prevlakama nanesenim spin-coating metodom*, Second International Symposium on Corrosion and Protection of Materials and Environment, 17.-20. oktobar 2012, Bar, Crna Gora, Proceedings, (2012), p. 163-167.
21. Kozica, I., Korać, F., Cacan, M., Gutić, S., Gojak, S., Islamović, S., **Ostojić, J.** *Korozija varova na inoksu u objektima javnih zatvorenih bazena*, XIII YUCORR International Conference, Exchanging experiences in the fields of corrosion, materials and environmental protection, April 05.-08.2011. Tara-Serbia, Book of Abstracts, (2011) p. 112-113.
22. Muslimović, A., Cacan, M., Korać, F., Gojak, S., **Ostojić, J.**, Gutić, S., Islamović, S. *Hemijska i elektrohemijska sinteza polianilina u sulfatnoj kiselini*, XIII YUCORR International Conference, Exchanging experiences in the fields of corrosion, materials and environmental protection, April 05.-08.2011. Tara-Serbia, Book of Abstracts, (2011) p. 95-96.
23. **Ostojić, J.**, Cacan, M., Korać, F., Gojak, S., Islamović, S., Gutić, S. *Korozija pocinčanih vodovodnih cijevi u zavisnosti od koncentracije hloridnih jona*, First International Symposium on Corrosion and Protection of Materials and Environment, 23.-26. novembar 2010, Bar, Crna Gora, Proceedings, (2010), p. 173-176.

24. Korać, F., Cacan, M., Gojak, S., Islamović, S., Gutić, S., **Ostojić, J.** *Korozione karakteristike ortopedskih implantata od nehrđajućeg čelika i legirajućih materijala u simuliranim fiziološkim uslovima*, First International Symposium on Corrosion and Protection of Materials and Environment, 23-26. novembar 2010., Bar, Crna Gora, Proceedings (2010) p. 167-172.

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