

PERSONAL INFORMATION



Emir Horozić

📍 Faculty of Technology, University of Tuzla, Urfeta Vejzagića 8, 75 000 Tuzla, B&H

☎ +387 61 026 160

✉ emir.horozic@untz.ba horozic.emir@gmail.com

🌐 https://www.researchgate.net/profile/Emir_Horozic

Sex: Male | Date of birth: 31/05/1993 | Nationality: Bosnian

POSITION

Teaching Assistant - Organic Chemistry

OCCUPATIONAL FIELD

Organic Chemistry, Chemistry of Natural Products, Chemistry of Complex Compounds, Pharmaceutical Chemistry, Chemistry of Anticancer Drugs, Macromolecular Chemistry

WORK EXPERIENCE

From 02/10/2017 - Today

Teaching Assistant - Organic Chemistry

University of Tuzla, Faculty of Technology, Urfeta Vejzagića 8, 75 000 Tuzla, Bosnia and Herzegovina

- Planning and implementation of experimental laboratory work with students
- Assisting a professor in the teaching process
- Organization and planning of examinations
- Personal development

Teaching Courses:

- Organic Chemistry (Faculty of Tehnology)
- Organic Chemistry I (Faculty of Technology and Faculty of Pharmacy)
- Organic Chemistry II (Faculty of Pharmacy)
- Macromolecular Chemistry (Faculty of Technology)
- Chemistry of Natural Products (Faculty of Technology)
- Chemistry of Polycyclic Compounds (Faculty of Technology)
- Structure and properties of polymers (Faculty of Technology)

Business or sector: Higher Education

EDUCATION

02/10/2017 - 19/02/2019

M.Sc. in Chemistry and Materials Engineering

University of Tuzla, Faculty of Technology, Urfeta Vejzagića 8, 75 000 Tuzla, B&H

Department of Chemical Engineering and Technology

Programs: Chemistry and Materials Engineering

01/10/2012 - 14/10/2016

B.Sc. in Chemistry

University of Tuzla, Faculty of Natural Sciences, Urfeta Vejzagića 4, 75 000 Tuzla, B&H

Department of Chemistry

Programs: Education in Chemistry

PERSONAL SKILLS

Mother tongue(s) Bosnian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
Deutsch	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Presentation of research results at international conferences

Computer skills Microsoft Office tools (Word, Excel, PowerPoint, etc.), ChemOffice, ACD Labs

Job-related skills Work on analytical instruments (UV/Vis and FT-IR spectrophotometer, HPLC)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

ADDITIONAL INFORMATION

Selected journal papers

Cipurković, A., Marić, S., Horozić, E., Hodžić, S., Husejnagić, D., Kolarević, L., Zukić, A., Bjelošević, D. (2019). Complexes of Co (II), Cu (II) and Ni (II) with Antineoplastic Agent Imatinib Mesylate: Synthesis, Characterization and Biological Activity. American Journal of Chemistry, 9(6), 159-164.

Horozić, E., Kolarević, L., Zukić, A., Bjelošević, D., Mekić, L., Ademović, Z., Husejnagić, D., Hodžić, S. (2019). Effects of extraction solvent and technique on the antioxidant and antimicrobial activity of spring Saffron (*Crocus vernus* (L.) Hill). Acta Medica Saliniana, 49(2), 19-23.

Horozić, E., Suljagić, J., Suljkanović, M. (2019). Synthesis, characterization, antioxidant and antimicrobial activity of Copper(II) complex with Schiff base derived from 2,2-dihydroxyindane-1,3-dione and Tryptophan. American Journal of Organic Chemistry, 9(1), 9-13.

Horozić, E., Suljagić, J., Husejnagić, D., Hasić, N., Bratovčić, A. (2019). Synthesis, characterization and in vitro biological evaluation of the Schiff base derived from Benzidine and 1,3-Diphenyl-1,3-propanedione. Journal of Engineering & Processing Management, 11(2), 112-116.

Horozić, E., Ademović, Z., Suljagić, J., Cipurković, A., Roša, E., Sejfić, A., Husejnagić, D., Hodžić, S. (2019). Synthesis, spectral characterization, antibacterial and antifungal activity of copper(II)-pABA Complex. Technologica Acta, 12(1), 27-30.

Horozić, E., Zukić, A., Kolarević, L., Bjelošević, D., Ademović, Z., Šarić-Kundalić, B., Husejnagić, D., Kudumović, A. (2019). Evaluation of antibacterial and antioxidant activity of methanol needle extracts of *Larix Decidua* Mill., *Picea Abies* (L.) H. Karst. and *Pinus Nigra* J. F. Arnold. Technics Technologies Education Management, 14(1), 22-27.

Horozić, E., Cipurković, A., Ademović, Z., Bjelošević, D., Kolarević, L., Zukić, A., Husejnagić, D., Hodžić, S. (2018). Synthesis, spectral characterization and antimicrobial activity of some M(II) complexes with Ciprofloxacin. Journal of Engineering & Processing Management, 10(2), 16-22.

Horozić, E., Cipurković, A., Ademović, Z., Kolarević, L., Bjelošević, D., Zukić, A., Hodžić, S., Husejnagić, D., Ibišević, M. (2018). Synthesis, characterization and *in vitro* antimicrobial activity of the Cu(II) and Fe(III) complexes with 1-cyclopropyl-6-fluoro-4-oxo-7-(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 51, 1-5.

Horozić, E., Begić, S., Cipurković, A., Suljkanović, N., Mujanović, S. (2018). Application of dendrimers and quantum dots in cancer diagnosis and therapy. *Acta Medica Saliniana*, 47(2), 23-31.

Horozić, E., Begić, A., Ademović, Z., Brekalo-Lazarević, S. (2018). Reproducibility of the selected methods for determination of phenol in urine by high performance liquid chromatography. *Chemistry in Industry*, 67(13), 107-114.

Brekalo-Lazarević, S., Begić, A., Ademović, Z., Horozić, E. (2018). Determination of Benzene Metabolite phenol in the Urine and Analysis of Blood Parameters of Workers Exposed to Benzene. *International Journal of Current Advanced Research*, 7(7), 14031-14035.

Cipurković, A., Horozić, E., Đonlagić, N., Marić, S., Saletović, M., Ademović, Z. (2018). Biodegradable Polymers: Production, properties and application in medicine. *Technologica Acta*, 11(1), 25-35.

Cipurković, A., Horozić, E., Ljubijankić, N., Odošević, A., Saletović, M., Galijašević, S. (2017). Synthesis and spectral characterization of Fe(II) and Mn(II) complexes with oral fluorouracil pro-drug Capecitabine. *Rasayan Journal of Chemistry*, 10(4), 1381-1390.

Saletović, M., Cipurković, A., Horozić, E., Đozić, A., Selimbašić, V. (2017). Distribution of Some Elements in the Soil Where Echinacea is Cultivated. *European Journal of Scientific Research*, 146 (2), 194-202.

Horozić, E., Cipurković, A., Ljubijankić, N. (2017). Anti-infective and anti-tumor activity of some metal complexes (M^{II} - M^{IV}) with Schiff bases. *Technologica Acta*, 10(1), 27-34.

Cipurković, A., Horozić, E., Crnkić, A., Marić, S., Ljubijankić, N. (2016). Spectroscopic Investigations of Co(II) and Cu(II) Interaction with Imatinib Mesylate and Capecitabine. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 47, 11-16.

Selected papers from international conferences

Zukić, A., Horozić, E., Ademović, Z., Suljagić, J., Džambić, A., Bjelošević, D., Kolarević L. (2020). Novel transition metal complexes with tenoitrifluoroacetone: Synthesis, spectral characterization and *in vitro* biological activity. XIII Meeting of Young Chemical Engineers, Zagreb, Faculty of Chemical Engineering and Technology, Croatia, February 20-21, Book of Abstracts, p. 190.

Horozić, E., Cipurković, A., Junuzović, H., Ahmetović, M., Mekić, L. (2020). Physical-chemical characterization and bioactivity of selected biometal complexes with 8-hydroxyquinoline. XIII Meeting of Young Chemical Engineers, Zagreb, Faculty of Chemical Engineering and Technology, Croatia, February 20-21, Book of Abstracts, p. 162.

Hodžić, E., Alić, E., Horozić, E. (2020). Monitoring of pollutants emissions in the Tuzla City. XIII Meeting of Young Chemical Engineers, Zagreb, Faculty of Chemical Engineering and Technology, Croatia, February 20-21, Book of Abstracts, p. 86.

Horozić, E., Suljagić, J., Šerifović, A., Husejnagić, D., Hodžić, S. (2019). Synthesis, characterization and antimicrobial activity of the imine Co(II) complex derived from ninhydrin and glycine. 6th Symposium „Environmental Resources, Sustainable Development and Food Production“, Tuzla, Faculty of Technology, B&H, November 14-15, Book of Abstracts, p. 31.

Bjelošević, D., Zukić, A., Kolarević, L., Horozić, E. (2019). Study of interaction and *in vitro* biological activity of the product copper(II) and nickel(II) with tenoethyltrifluoroacetone. 6th Symposium „Environmental Resources, Sustainable Development and Food Production“, Tuzla, Faculty of Technology, B&H, November 14-15, Book of Abstracts, p. 27.

Ljevaković, M., Djedović, A., Dubravac, A., Zohorović, M., Horozić, E. (2019). Removal of chromium (VI) from aqueous solution using orange peel. 6th Symposium „Environmental Resources, Sustainable Development and Food Production“, Tuzla, Faculty of Technology, B&H, November 14-15, Book of Abstracts, p. 33.

Dubravac, A., Omerčević, M., Zohorović, M., Horozić, E. (2019). Effect of contact time in removing Cr(IV) ions from water using lemon peel as low-cost biosorbent. 6th Symposium „Environmental Resources, Sustainable Development and Food Production“, Tuzla, Faculty of Technology, B&H, November 14-15, Book of Abstracts, p. 30.

Kolarević, L., Zukić, A., Bjelošević, D., Horozić, E., Ademović, Z., Hasić, N., Husejnagić, D., Hodžić, S. (2019). Evaluation of antimicrobial and antioxidant activity of Copper(II) and Chromium(III) complexes with Schiff base derived from glycine and 2,2-dihydroxyindane-1,3-dione. Fourth Congress of Pharmacists of Bosnia and Herzegovina, Sarajevo, Hotel Hills, B&H, October 10-13, Book of Abstracts, p. 333.

Džambić, A., Muratović, S., Veljović, E., Smajić, M., Cilović, E., Horozić, E., Srabović N. (2019). Antioxidative activity of six new arylmethylen bis(3-hydroxy-5,5-dimethyl-2-cyclohexen-1-one) derivatives. Fourth Congress of Pharmacists of Bosnia and Herzegovina, Sarajevo, Hotel Hills, B&H, October 10-13, Book of Abstracts, p. 317.

Horozić, E., Suljagić, J. (2019). Characterization and investigation of bioactivity of copper(II) and cobalt(II) complexes with imine ligand. 5th International Conference New Technologies, Development and Application NT-2019, Sarajevo, B&H, June 27-29, 624-632.

- Djedović, M., Zahirović, A., Tutić, A., Horozić, E., Zohorović, M., Ademović, Z. (2019). Researching the efficiency of banana peel in removal of selected metals from water. 27th International Conference Ecological Truth And Environmental Research - Student section, Bor, Serbia, June 18-21, Book of Abstracts, p. 22.
- Horozić, E., Kolarević, L., Zukić, A., Bjelošević, D., Ademović, Z., Šarić-Kundalić, B. (2019). Investigation of solvent effects on antioxidant activity of dried immortelle extracts (*Helichrysum italicum*). VI Symposium of pharmacists TK - "Antioxidants: Importance and Use", Hotel Tuzla, Tuzla, B&H, March 23, Proceedings, p. 25-29.
- Horozić, E., Cipurković, A., Ademović, Z., Kolarević, L., Bjelošević, D., Zukić, A., Hodžić, S., Husejnagić, D. (2018). Synthesis, characterization and antimicrobial screening of Cu(II) complex with macrolide antibiotic Azithromycin. XII Counseling for Chemists, Technologists and Ecologists of the Republic of Srpska, Hotel Kardial, Teslić, B&H, November 2-3, Proceedings, p. 27-33.
- Horozić, E., Cipurković, A., Ademović, Z., Husejnagić, D., Kolarević, L., Bjelošević, D., Zukić, A., Hodžić, S. (2018). Complexes with Beta-Lactam Antibiotic Amoxicillin: Synthesis, characterization and In vitro antimicrobial activity. XII Counseling for Chemists, Technologists and Ecologists of the Republic of Srpska, Hotel Kardial, Teslić, B&H, November 2-3, Proceedings, p. 34-41.
- Ademović, Z., Horozić, E. (2018). Complexing of antibiotics with biogenic metals in order to improve antimicrobial activity. XII International Symposium of Pharmacists of the Republic of Srpska, J.P. "Aquana", Banja Luka, B&H, December 1, Proceedings, p. 41-42.
- Brekalo-Lazarević, S., Begić, A., Ademović, Z., Horozić, E. (2018). Health risk for workers exposed to benzene in the workplace. XII International Symposium of Pharmacists of the Republic of Srpska, J.P. "Aquana", Banja Luka, B&H, December 1, Proceedings, p. 43-45.
- Marić, S., Horozić, E., Cipurković, A., Bajrić, E., Salkić, A., Ademović, Z., Ibišević, M. (2018). Study of interaction M(II) and M(III) ions with (7R)-7-((R)-2-amino-2-phenylacetamido)-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-2-carboxylic acid with FTIR spectroscopy and stereo-microscopy. XII Counseling for Chemists, Technologists and Ecologists of the Republic of Srpska, Hotel Kardial, Teslić, B&H, November 2-3, Proceedings, p. 54-58.
- Horozić, E., Cipurković, A., Ademović, Z., Bjelošević, D., Zukić, A., Kolarević, L., Husejnagić, D., Hodžić, S., Ibišević, M. (2018). Synthesis, characterization and in vitro antimicrobial activity of the Cu(II) and Fe(III) complexes with 1-cyclopropyl-6-fluoro-4-oxo-7-(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid. Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, B&H, October 19-21, Book of Abstracts, p. 115.
- Horozić, E., Ademović, Z., Hasanbašić, A., Tučić, E., Kovačević, L. (2018). Determination of the citric acid content in commercial fruit juices by HPLC. Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, B&H, October 19-21, Book of Abstracts, p. 116.
- Horozić, E., Ademović, Z., Suljagić, J., Begović, H., Halilčević, L., Hodžić, A., Mujezinović, B., Badžić, S. (2018). Determination of total phenols and antioxidative capacity of commercial green tea from tuzla markets. 11th International Scientific and Professional Conference WITH FOOD TO HEALTH, Split, Croatia, October 18-19, Book of Abstracts, p. 119.
- Horozić, E., Hadžić, A., Begić, S., Andrejaš, F. (2018). Removal of heavy metal ions from water using waste biomaterials from food processing as low-cost sorbents. 26th International Conference Ecological Truth And Environmental Research - Student section, Bor, Serbia, June 12-15, Proceedings EcoTERS, p. 6-9.
- Horozić, E., Hajdarbegović, A., Hasanbašić, A., Tučić, E., Halilčević, L., Ademović, Z. (2018). Analysis of antioxidant activity and total phenols content in commercial Sage (*Salvia officinalis* L.). 26th International Conference Ecological Truth And Environmental Research - Student section, Bor, Serbia, June 12-15, Proceedings EcoTERS, p. 10-14.
- Horozić, E., Časurović, A., Čamdžić, M., Bektić, S., Peštalić, N., Subašić, A., Ademović, Z. (2018). Investigation of the vitamin C content in differently treated fruits and vegetables. 1st International Students' GREEN Conference, Osijek, Croatia, May 17-18, Book of Abstracts, p. 152.
- Brekalo-Lazarević, S., Begić, A., Ademović, Z., Horozić, E. (2018). Analysis of blood parameters of workers exposed to Benzene. 5th Symposium of Masters of Pharmacy in Tuzla Canton, Tuzla, 24 mart, Proceedings, p. 10-11.
- Horozić, E., Begić, A., Ademović, Z. (2018). Optimization of a method for determination of phenol in urine by high performance liquid chromatography. XII Meeting of Young Chemical Engineers, Zagreb, February 22-23, Book of Abstracts, p. 158.
- Cipurković, A., Horozić, E., Crnkić, A., Spaseska Aleksovska, E., Marić, S., Saletović, M. (2017). UV and FT-IR spectroscopic characterization of 4-[(4-methylpiperazin-1-yl)methyl]-N-[4-methyl-3-[(4-pyridin-3-yl-pyrimidin-2-yl)amino]phenyl]benzamide. 5th Symposium "Environmental Resources, Sustainable Development and Food Production", Tuzla, Faculty of Technology, B&H, November 16-17, Book of Abstracts, p. 39.
- Cipurković, A., Horozić, E., Đonlagić, N., Marić, S., Saletović, M., Ademović, Z. (2017). Biodegradable Polymers: Production, properties and application in medicine. The International Joint Science Congress of Materials and Polymers, Metropol Lake Resort, Ohrid, Macedonia, August 25-28, Book of Abstracts, p. 91.

- Ljubijankić, N., Cipurković, A., Begić, S., Horozić, E., Kadić, S., Ljubijankić, S. (2017). Characteristics and ecotoxicology of cadmium. 5th Scientific and Expert Conference "5 June - World Environment Day", Hotel "Kostelski buk", Bihać, Bosnia and Herzegovina, June 29-30, Proceedings, p. 48-55.
- Ljubijankić, S., Cipurković, A., Horozić, E. (2017). Ecotoxicology of mercury. 5th Scientific and Expert Conference "5 June - World Environment Day", Hotel "Kostelski buk", Bihać, Bosna i Hercegovina, June 29-30, Proceedings, p. 69-76.
- Cipurković, A., Horozić, E., Marić, S., Šestan, I., Crnkić, A. (2016). Investigations of Co(II) and Mn(II) interactions with ascorbic acid using FTIR spectroscopy. XI Conference of Chemists, Technologists and Environmentalists of Republic of Srpska, Hotel Kardial, Teslić, B&H, November 18-19, Proceedings, p. 94-101.
- Horozić, E., Cipurković, A. (2016). Chemical aspects of radiopharmaceuticals applications in diagnosis and therapy. XI Conference of Chemists, Technologists and Environmentalists of Republic of Srpska, Hotel Kardial, Teslić, B&H, November 18-19, Book of Abstracts, p. 30.
- Horozić, E., Cipurković, A., Crnkić, A., Marić, S., Ljubijankić, N. (2016). Spectroscopic Investigations of Co(II) and Cu(II) Interaction with Imatinib Mesylate and Capecitabine. Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, Bosnia and Herzegovina, October 21-23, Book of Abstracts, p. 83.
- Horozić, E., Kesić, A. (2016). Advantages and Adverse Effects of Application of Metallic Nanoparticles and Metal Oxides in Pharmaceutical and Cosmetic Preparations. The 6th International Congress Biomedicine and Geosciences - Influence of Environment on Human Health, Hotel Park, Belgrade, Serbia, April 18-19, p. 218-225.
- Kesić, A., Dedić, J., Tupajić, M., Huseinović, E., Stuhli, V., Horozić, E. (2015). Impact assessment of natural disasters to change physico-chemical parameters of water ecosystems in Tuzla Canton. The 5th International Congress Biomedicine and Geosciences - Influence of Environment on Human Health, Hotel Crowne Plaza, Belgrade, Serbia, March 3-4, p. 256-266.

PROJECTS

- 2019 [Effect of eutectic solvents on the chemical composition and biological activity of seed extracts of selected citrus species](#)
Project leader: Dr.sc. Zahida Ademović, associate professor
- 2018 [Extraction of lignin and its model components and catalytic upgrading to higher value chemicals \(LigMoKat\)](#)
Project leaders: Dr.sc. Jasmin Suljagić, associate professor (Bosnia and Herzegovina) and Dr. sc. Miha Grilc (Slovenia)
- 2018 [Synthesis and bioactivity of complexes of some biogenic metals with selected O, N, S ligands](#)
Project leader: Dr.sc. Amira Cipurković, full professor
Project supported by Federal Ministry of Education and Science, Bosnia and Herzegovina
- 2018 [Investigation of the possibility application of M\(II\) complexes with Schiff's bases](#)
Project leader: Dr.sc. Jasmin Suljagić, associate professor
Project supported by University of Tuzla, Bosnia and Herzegovina
- 2014 [Investigation of Potentially Contaminated Areas in FB&H - Phase I](#)
Project leader: Dr.sc. Aldina Kesić, assistant professor
Project supported by Federal Ministry of Education and Science, Bosnia and Herzegovina

PUBLISHED BOOKS

- May, 2019 [Nomenclature of Organic Compounds](#)
Snježana Marić, Emir Horozić, Jasmin Suljagić
- February, 2020 [Methods of isolation and identification of Organic Compounds](#)
Emir Horozić, Jasmin Suljagić, Zahida Ademović, Snježana Marić