

LIČNE INFORMACIJE



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RADNO ISKUSTVO

Od 01/10/2022	Docent (Oblast Organska hemija i Biohemija) Univerziteta u Sarajevo-Prirodno-matematički fakultet, Bosna i Hercegovina
08/02/2018-01/10/2022	Viši asistent (Oblast Organska hemija i Biohemija) Univerziteta u Sarajevo-Prirodno-matematički fakultet, Bosna i Hercegovina
01/10/2014–08/02/2018	Asistent (Oblast organska hemija) Prirodno-matematičkog fakulteta Univerziteta u Sarajevo, Bosna i Hercegovina
01/03/2022-01/06/2022	Vanjski saradnik za laboratorijske vježbe na predmetu Biohemija na Fakultetu zdravstvenih studija Univerziteta u Sarajevu, Bosna i Hercegovina
12/10/2020-12/01/2021	Vanjski saradnik za laboratorijske vježbe na predmetu Biohemija I na Veterinarskom fakultetu Univerziteta u Sarajevu, Bosna i Hercegovina
01/10/2018-30/9/2019	Vanjski saradnik za laboratorijske vježbe na predmetu Opšta, anorganska i organska hemija na Fakultetu zdravstvenih studija Univerziteta u Sarajevu, Bosna i Hercegovina
01/10/2017-30/9/2018	Vanjski saradnik za laboratorijske vježbe na predmetu Opšta, anorganska i organska hemija na Fakultetu zdravstvenih studija Univerziteta u Sarajevu, Bosna i Hercegovina
01/10/2016-30/9/2017	Vanjski saradnik za laboratorijske vježbe na predmetu Opšta, anorganska i organska hemija na Fakultetu zdravstvenih studija Univerziteta u Sarajevu, Bosna i Hercegovina
15/02/2014–01/07/2014	Demonstrator na Katedri za Organsku hemiju i Biohemiju Prirodno-matematičkog fakulteta Univerziteta u Sarajevo, Bosna i Hercegovina
01/02/2013–01/07/2013	Demonstrator na Katedri za Organsku hemiju i Biohemiju Prirodno-matematičkog fakulteta Univerziteta u Sarajevo, Bosna i Hercegovina

OBRAZOVANJE

09/2019-06/2022	Doktor hemijskih nauka , Prirodno-matematičkom fakultet Univerziteta u Sarajevu, Odsjek za hemiju – opšti smjer
09/2013–12/2014	Magistar inženjerske hemije , Prirodno-matematički fakultet Univerziteta u Sarajevu, Odsjek za hemiju – opšti smjer
09/2009–09/2013	Bachelor inženjerske hemije , Prirodno-matematički fakultet Univerziteta u Sarajevu, Odsjek za hemiju – opšti smjer
2005–2009	Farmaceutski tehničar , Poljoprivredna i Medicinska škola, Brčko, Bosna i Hercegovina

LIČNE VJEŠTINE

Maternji jezik srpski

Ostali jezici

	RAZUMIJEVANJE		GOVOR		PISANJE
	Slušanje	Čitanje	Govorna interakcija	Govorna produkcija	
Engleski jezik	B2	B1	B1	B1	B1

Rad na računaru
-Microsoft Office™
-Hemijski softveri

Rad na sofisticiranim instrumentima
-UV/Vis spektrofotometar
-Spektrofluorimetar
-HPLC-ED
-HPLC-DAD
-LC-QTOF
-GC-MS

Vozačka dozvola B1, B, BE, C1, C

DODATNE INFORMACIJE

Učešće u projektima

2021-danas – Učesnik projekta pod nazivom „Adsorpcija i uklanjanje organofosfatnog pesticida iz uzoraka vode upotrebom filisilikatnog minerala“. **Finansijer:** MONKS. Voditelj projekta prof.dr. Lejla Klepo

2021-danas – Učesnik projekta pod nazivom „Izolacija, identifikacija i antioksidativna aktivnost biološki aktivnih spojeva vrsta roda *Fraxinus* L.«. **Finansijer:** FMON. Voditelj projekta prof.dr. Amira Čopra-Janićjević.

2019-2022 – Učesnik projekta pod nazivom „Bioprospekting odabranih ljekovitih i endemičnih biljaka BiH – hemijski sastav, biološka aktivnost i veličina genoma«. **Finansijer:** MONKS. Voditelj projekta prof.dr. Danijela Vidic.

2015-2018 - Učesnik projekta pod nazivom „Određivanje sastava i sadržaja odabranih fenolskih spojeva HPLC-ED metodom u biljkama roda *Crataegus* L.«. Projekat se realizira u saradnji Prirodno- matematičkog fakulteta sa Šumarskim fakultetom. **Finansijer:** FMON. Voditelj projekta prof.dr. Amira Čopra-Janićjević.

Učešće na kongresima

Juli, 2022

4 th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina

Oktoibar, 2018

3 rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina

Oktoibar, 2014

1st Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, Bosnia and Herzegovina

02/02-06/02/2015.-TEMPUS projekat „ Network for education and training for public environmental laboratories“.

Kod projekta: 530554-TEMPUS-1-2012-1-SK-JPHES

„Obrada uzoraka vode-edukacija za osoblje laboratorija iz BiH“, Univerzitet u Sarajevu

17/11-20/11/2014.-TEMPUS projekat „ Network for education and training for public environmental laboratories“.

Kod projekta: 530554-TEMPUS-1-2012-1-SK-JPHES

„Validacija metoda ispitivanja vode“, Univerzitet u Banjoj Luci

10/02-14/02/2014.-TEMPUS projekat „ Network for education and training for public environmental laboratories“.

Kod projekta: 530554-TEMPUS-1-2012-1-SK-JPHES

„Edukacija o obradi uzoraka vode“, Univerzitet u Sarajevu

BIBLIOGRAFIJA

Objavljeni recenzirani udžbenici

1. Maksimović, M., Čopra-Janićijević, A., Vidic, D., Topčagić, A., Klepo, L., Dizdar, M., **Čulum, D.** (2019). Osnove organske hemije zbirka zadataka, Prirodno-matematički fakultet, Sarajevo, ISBN 978-9926-453-21-3.
2. Vidic, D., **Čulum, D.**, Maksimović, M. (2022). Praktikum hemije prirodnih produkata, Prirodno-matematički fakultet, Sarajevo, ISBN 978-9926-453-44-2.

Naučni radovi u časopisima obuhvaćenim sa ISI Web of Knowledge - Current Contents Connect®

1. Čulum, D., Čopra-Janićijević, A., Muratović, E., Siljak-Yakovlev, S., Maksimović, M., Vidic, D. (2021). Essential Oil Composition and Antioxidant Activity of Endemic *Achillea lingulata* Waldst. & Kit. Compared to Common *A. millefolium* L. Records of Natural Products.
2. Čopra-Janićijević, A., Čulum, D., Vidic, D., Tahirović, A., Klepo, L., Bašić, N. (2018). Chemical composition and antioxidant activity of the endemic *Crataegus microphylla* Koch subsp. *malvana* Kl. Chr. & Janjić from Bosnia. Industrial Crops and Products, 113, 75-79.

Naučni radovi u časopisima obuhvaćenim sa ISI Web of Knowledge - Web of Science®

3. Osmic, N., Čulum, D., Ibragic, S. (2022). Catechins and other phenolic compounds in herb of eight *Ephedra* species in comparison to *Camellia sinensis*. Natural Product Research, 1-6.
4. Mahmutović-Dizdarević, I., Dizdar, M., Čulum, D., Vidic, D., Dahija, S., Jerković-Mujkić, A., Bešta-Gajević, R. (2020). Phenolic Composition, Antioxidant and Antimicrobial Activity of *Cotoneaster Medik.* Species from Bosnia and Herzegovina. Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, 54 (1).
5. Etmnan, A., Uzunović, A., Topčagić, A., Žero, S., Dizdar, M., Klepo, L., Čulum, D., Džudžević-Čančar, H., Tahirović, I. (2019). Quantification of Active Substances in Some Drugs Using by Derivative UV/Vis spectroscopy. In International Conference on Medical and Biological Engineering (pp. 553-557). Springer, Cham.
6. Čulum, D., Čopra-Janićijević, A., Vidic, D., Klepo, L., Tahirović, A., Bašić, N., & Maksimović, M. (2018). HPLC-ED Analysis of Phenolic Compounds in Three Bosnian *Crataegus* Species. Foods (Basel, Switzerland), 7(5).
7. Nuhanovic, M., Topalovic, A., Čulum, D., Ibragic, S. (2018). The Effectiveness of Natural and Synthetic Antioxidant Additives on the Oxidation Stability of Biodiesel Synthesized from Fresh and Waste Sunflower Oil. Orbital: The Electronic Journal of Chemistry, 10(7), 535-543.

8. Čulum, D., Vidic, D., Maksimović, M., Čopra-Janićijević, A., Muratović, E., Siljak-Yakovlev, S. (2022). Chemical Characterization of Essential Oils of *Achillea nobilis* L. and *Achillea millefolium* L. 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 77.
9. Mehić, K., Jevđević, K., Čulum, D., Čopra-Janićijević, A., Vidic, D. (2022). Qualitative and Quantitative Analysis of Flavonoids of *Achillea lingulata* Waldst. & Kit. 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 78.
10. Marković, I., Pešković, L., Čulum, D., Vidic, D., Maksimović, M., Čopra-Janićijević, A. (2022). Total Phenolic Content and Antioxidant Activity of *Juniperus communis* L. subsp. *nana*. 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 79.
11. Karadža, A., Smaka, E., Čulum, D., Čopra-Janićijević, A. (2022). Content of Total Phenols, Total Flavonoids and Antioxidant Activity of Cosmetic Skin Care Products. 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 82.
12. Nuić, A., Piljug, M., Čulum, D., Muratović, E., Vidic, D. (2022). Chemical Composition and Antioxidant Activity of *Lilium bosniacum*. 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 83.
13. Marković, I., Čulum, D., Vidic, D., Čopra-Janićijević, A., Topčagić, A., Klepo, L. (2022). Identification of Chemical Constituents from Two *Fraxinus* Species by GC-MS and HPLC-DAD Methods. 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 84.
14. Suljić, M., Čulum, D., Vidic, D., Čopra-Janićijević, A. (2022). Chemical Composition and Antioxidant Activity of *Achillea millefolium*. 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina. Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 85.
15. Etninan, A., Uzunović, A., Topčagić, A., Žero, S., Dizdar, M., Klepo, L., Čulum, D., Tahirović, I. (2018). Utilisation of Derivative UV/Vis Spectrophotometry in Determination of Active Pharmaceutical Ingredient Content in Some Drugs. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 24.
16. Džafo, A., Klepo, L., Čopra-Janićijević, A., Čulum, D. (2018). Spectrophotometric Determination of Glyphosate in Selected Samples. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 42.
17. Kristić, D., Šimunić, I., Ibragić, S., Čulum, D., Klepo, L., Tahirović, I. (2018). Determination of Total Protein Content in Royal Jelly Samples by an UV Spectrophotometric Method. Drugs. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 59.
18. Šimunić, I., Kristić, D., Ibragić, S., Čulum, D., Klepo, L., Tahirović, I. (2018). Determination of Total Phenolic Content of Royal Jelly by Using a Spectrophotometric Method. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i

Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 60.

19. Asentić, M., Košarac, G., Čopra-Janićijević, A., Čulum, D. (2018). Determination of Total Phenolic Acids and Antioxidant Activity of *Fraxinus ornus* L. and *Fraxinus excelsior* L. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 72.
20. Balić, S., Čulum, D., Vidic, D., Klepo, L., Bašić, N., Čopra-Janićijević, A. (2018). Determination of Phenolic Compounds in *Fraxinus angustifolia* Vahl. by HPLC-DAD. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 73.
21. Mehić, M., Barešić, M., Čulum, D., Vidic, D., Tahirović, A., Čopra-Janićijević, A. (2018). HPLC-DAD Analysis of Coumarins and Phenolic Acids in Ethanolic Extracts of *Fraxinus ornus* L. and *Fraxinus excelsior* L. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 75.
22. Mahmutagić, E., Čulum, D., Dizdar, M., Vidic, D. (2018). Chemical Composition and Antioxidant Activity of Ethanolic Extracts of Selected Cereals. 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 79.

Naučni radovi u domaćim časopisima

23. Gojak-Salimović, S., Šljivo, E., Vidic, D., Čulum, D. (2018). Determination of total phenolic content and antioxidant activity of aqueous extracts of selected medicinal plants. Works of the Faculty of Forestry University of Sarajevo, (2).

Naučni radovi prezentirani na naučnim skupovima

24. Čulum, D., Kenjić, J., Vidic, D., Klepo, L., Tahirović, A., Bašić, N., Čopra-Janićijević, A. (2014). Determination of some phenolic compounds in *Crataegus monogyna* and *Crataegus microphylla* by HPLC-ED. Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 104. (Poster presentation).
25. Hot, D., Čulum, D., Vidic, D., Tahirović, A., Klepo, L., Čopra-Janićijević, A. (2016). Total Flavonoids and TLC Analysis of Three *Crataegus* Species. 2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 13. (Poster presentation).
26. Jozeljčić, B., Talić, L., Vukas, M., Dizdar, M., Čulum, D., Vidic, D. (2016). Spectrophotometric Determination of total Monoterpenes Content in Essential Oil of Selected Aromatic Plants. 2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 23. (Poster presentation).
27. Tomić, Z., Bošnjak, I., Čulum, D., Čopra-Janićijević, A., Klepo, L., Tahirović, A. (2016). Determination of Esculin, Esculetine and Scopoletin in Extracts of *Fraxinus ornus* L. and *Fraxinus excelsior* L. By HPLC-ED. 2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 10. (Poster presentation).
28. Balić, S., Miović, D., Šehić, A., Klepo, L., Čulum, D., Čopra-Janićijević, A., Tahirović, A. (2016). Spectrofluorimetric Determination of Total Coumarins in Various *Fraxinus* species from Bosnia and Herzegovina. 2nd International

Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 9. (Poster presentation).

29. Kuljanin, G., Rizvo, L., Ajanović, A., Čulum, D., Vidic, D., Čopra-Janićijević, A., Tahirović, A., Klepo, L., Bašić, N. (2016). Determination of Phenolic Compounds in Crataegus Extract by HPLC-ED Analysis. 2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Glasnik hemičara i tehnologa Bosne i Hercegovine Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue, Book of Abstracts, 12. (Poster presentation).
30. Culum, D., Kenjic, J., Vidic, D., Copra-Janicijevic, A. (2014) Determination of total flavonoids and antioxidant activity in selected samples of Crataegus L. plants of the genus Crataegus L., X. Susret mladih kemijskih inženjera, 20 i 21 Februar, Zagreb, Hrvatska, Book of Abstracts, PP-143. (Poster presentation).
31. Kenjic, J., Culum, D., Copra-Janicijevic, A., Tahirovic, A. (2014) Determination of total anthocyanins in extracts of certain plants of the genus Crataegus L., X. Susret mladih kemijskih inženjera, 20 i 21 Februar, Zagreb, Hrvatska, Book of Abstracts, PP-154. (Poster presentation).

Dr. sc. Dušan Čulum