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Datum rođenja 15/04/1991

RADNO ISKUSTVO

- 10/2025 – Danas** Vanredni profesor za oblasti **Organska hemija i Biohemija**: Univerzitet u Sarajevu – Prirodno-matematički fakultet
- 04/2022 – 09/2025** Docent za oblasti **Organska hemija i Biohemija**: Univerzitet u Sarajevu – Prirodno-matematički fakultet
- 10/2017 – 02/2021** Viši asistent na nastavnim predmetima **Veterinarska biohemija I i II**: Univerzitet u Sarajevu – Veterinarski fakultet
- 10/2017 – 03/2022** Viši asistent za oblasti **Organska hemija i Biohemija**: Univerzitet u Sarajevu – Prirodno-matematički fakultet
- 02/2015 – 09/2017** Asistent na nastavnim predmetima **Veterinarska biohemija I i II**: Univerzitet u Sarajevu – Veterinarski fakultet
- 03/2014 – 09/2017** Asistent za oblasti **Organska hemija i Biohemija**: Univerzitet u Sarajevu – Prirodno-matematički fakultet

OBRAZOVANJE I OSPOSOBLJAVANJE

- 01/2016 – 01/2022** Doktor hemijskih nauka (EQF 8): Univerzitet u Sarajevu – Prirodno-matematički fakultet; *Sinteza i antioksidativno i enzim-inhibitorno djelovanje derivata fenolskih kiselina i aldehida*
- 03/2019 – 07/2019** Erasmus+: Univerzitet u Heidelbergu – Institut za organsku hemiju; *Gold-catalyzed regioselective synthesis of functionalized [1,8]naphthyridine derivatives*
- 01/2016 – 02/2016** TRAIN: Univerzitet u Sarajevu – Centar za interdisciplinarnu studije; *Pedagoško usavršavanje akademskog osoblja Univerziteta u Sarajevu*
- 10/2013 – 09/2014** Magistar inženjerske hemije (EQF 7): Univerzitet u Sarajevu – Prirodno-matematički fakultet; *Antioksidativna aktivnost hlorogenske kiseline i njenog metilnog estera*
- 09/2009 – 07/2013** Bachelor inženjerske hemije (EQF 6): Univerzitet u Sarajevu – Prirodno-matematički fakultet; *Ispitivanje mehanizma oksidacije L(+)-askorbinske kiseline na platinskoj elektrodi cikličnom voltametrijom*

LIČNE VJEŠTINE

Maternji jezik Bosanski

Ostali jezici	Razumijevanje		Govor		Pisanje
	Slušanje	Čitanje	Govorna interakcija	Govorna produkcija	
Njemački jezik	C1	C1	C1	C1	C1
Engleski jezik	B2	B2	B2	B2	B2

Vozačka dozvola B kategorija

DODATNE INFORMACIJE

- Nagrade i priznanja**
- Zlatna značka Univerziteta u Sarajevu za I i II ciklus studija (2014)
 - Zlatna značka Univerziteta u Saajevu za I ciklus studija (2013)

Nastavni proces **Nastavnička zaduženja:** *Stereochemija i mehanizmi organskih reakcija, Principi organske sinteze, Moderne instrumentalne metode u organskoj hemiji i Sinteza bioaktivnih spojeva – odabrana poglavlja*
Saradnička zaduženja: *Osnove organske hemije, Organska hemija sa materijalima, Organska hemija (za studente biologije), Organska hemija I, Organska hemija II, Stereochemija i mehanizmi organskih reakcija, Bioanalitička hemija, Fizikalna biohemija, Hemija heterociklusa, Moderne instrumentalne metode u organskoj hemiji i Sinteza bioaktivnih spojeva – odabrana poglavlja*

Naučno-istraživački projekti

- *Valorizacija fitohemijskog potencijala agroindustrijskih nusproizvoda za razvoj funkcionalnih biljnih preparate* (Federanlno ministarstvo obrazovanja i nauke; 2025 – 2026)
- *Hemijska karakterizacija i bioaktivni profil biljnih vrsta tradicionalne medicine u BiH upotrebom savremenih analitičkih i komputacijskih metoda* (Ministarstvo za nauku, visoko obrazovanje i mlade Kantona Sarajevo; 2024 – 2025)
- *Aldehidi fenolskog tipa – Sinteza derivata i biološka aktivnost* (Ministarstvo za nauku, visoko obrazovanje i mlade Kantona Sarajevo; 2023 – 2024)
- *Analiza pesticida i ekološka klasifikacija zagađenja vodotoka Kantona Sarajevo* (Ministarstvo za nauku, visoko obrazovanje i mlade Kantona Sarajevo; 2023 – 2024)
- *Fluorimetrijske i in silico studije interakcije albumina sa sintetskim kumarinima* (Ministarstvo za nauku, visoko obrazovanje i mlade Kantona Sarajevo; 2021–2023)
- *Korelacija antioksidativne aktivnosti, sadržaja ukupnih fenola i ukupnih proteina u uzorcima bosansko-hercegovačke matične mliječi* (Federanlno ministarstvo obrazovanja i nauke; 2018 – 2020)
- *Strukturni aspekti antioksidativnog djelovanja derivata hidroksibenzojevih i hidroksicimetnih kiselina* (Federanlno ministarstvo obrazovanja i nauke; 2016 – 2017)
- *Strukturni aspekti antioksidativnog i enzim-inhibicijskog djelovanja odabranih fenolskih kiselina i njihovih derivate* (Federanlno ministarstvo obrazovanja i nauke; 2015 – 2018)
- *Fitohemijsko istraživanje aktivnih konstituenata nekih ljekovitih i aromatičnih biljnih vrsta porodice Astaraceae* (Federanlno ministarstvo obrazovanja i nauke; 2015 – 2018)
- *Određivanje antioksidativnog kapaciteta protiv peroksidnih i hidroksilnih slobodnih radikala i sadržaja prirodnih fenola u uzorcima različitih vrsta pčelinjeg meda sa prostora Bosne i Hercegovine* (Federanlno ministarstvo obrazovanja i nauke; 2014 – 2015)

Mentorstva odbranjenih Završnih radova I i II ciklusa studija

Završni radovi I ciklusa studija:

- Lamija Helać (2026) Dizajn i sinteza 5-supstituiranih benzo[d][1,3]dioksol-5-il kalkona. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Adis Đopa (2024) *Sinteza, karakterizacija i bioaktivnost flavonoida izvedenih iz 1-(5-brom-2-hidroksifenil)etanona*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Lejla Tukulija (2024) *Sinteza, karakterizacija i bioaktivnost flavonoida izvedenih iz 1-(2-hidroksi-5-hlorfenil)etanona*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Melisa Bosno (2024) *Sinteza, karakterizacija i bioaktivnost flavonoida izvedenih iz 1-(4-fluor-2-hidroksifenil)etanona*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Ilda Radončić (2023) *Sinteza i bioaktivno djelovanje derivata salicina*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.

Završni radovi II ciklusa studija:

- Adis Đopa (2025) Antioksidativna i antiinflamatorna aktivnost biljnih vrsta tradicionalne medicine u Bosni i Hercegovini. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Lejla Tukulija (2025) Eksperimentalno i teoretsko ispitivanje interakcije hlor-supstituiranih flavonoida sa albuminom goveđeg seruma. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Melisa Bosno (2025) *Sinteza i bioaktivno djelovanje kalkona izvedenih iz 2,2-difluorbenzo[d][1,3]dioksol-4-karbaldehida*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Ilda Radončić (2024) *Sinteza, karakterizacija i bioaktivnost flavonoida izvedenih iz 4-(trifluormetil)benzaldehida*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Ivan Božur (2024) *Sinteza, karakterizacija i bioaktivnost flavonoida izvedenih iz 1-(5-fluor-2-hidroksifenil)etanona*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Aida Lavić (2023) *Effect of Trimethoprim/Sulfamethoxazole on phenotypic characteristics of leading bacterial causative agents of pneumonia during the Covid pandemic*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.
- Emina Pramenković (2023) *Effect of subminimum concentrations of Moxifloxacin on phenotypic characteristics of leading bacterial causative agents of pneumonia during Covid pandemic*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.

- Neira Crmčević (2023) *Effect of subinhibitory concentrations of Tetracycline on phenotypic characteristics of leading bacterial causative agents of pneumonia during the COVID pandemic*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.
- Sara Deumić (2023) *Effect of Dexamethasone on phenotypic characteristics of leading bacterial causative agents of pneumonia during the COVID pandemic*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.

Završni radovi III ciklusa studija:

- Neira Crmčević (2026) *Trifluoromethylthio-substituted flavonoids: Antimicrobial activity and fluorescence HSA-binding studies*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.
- Sara Deumić (2026) *Spectroscopic DNA-interaction studies and antineoplastic activity of halogen-substituted flavonoids*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.

Postdoktorski studij:

- Nezirina Kurtanović (2025) *Fluoro-supstituirani flavonoidi – sinteza, biološko djelovanje i in silico studije*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.

Recenzije udžbenika i naučnih radova

- LWT – Food Science and Technology
- Chemical Papers
- Bulletin of the Chemists and Technologists of Bosnia and Herzegovina
- Dinamička biohemija – praktikum (Autori: Erna Islamagić, Edhem Hasković, Safija Herenda; Rješenje: 01/06-2752/2-2022)

Članstva u komisijama

Završni radovi I ciklusa studija:

- Hodžić Hamida (2025) *Spektrofotometrijsko određivanje naproksena u farmaceutskim preparatima*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.

Završni radovi II ciklusa studija:

- Amila Dervišević (2026) *Interakcija aroilhidrazonato oksovanadij(IV) kompleksa sa CT DNA i BSA*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Sanid Gačić (2024) *Sinteza i karakterizacija kompleksa vanadija(V) s hidrazonima 2-furanske kiseline*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Petar Tuka (2024) *Djelovanje ekstrakata ljekovitog bilja na aktivnost enzima klase oksido-reduktaza i hidrolaza*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.
- Majra Delibašić (2024) *Određivanje konstante vezivanja i studija interakcije albumina humanog seruma sa 6-supstituiranim 4-metilkumarinima*. Univerzitet u Sarajevu – Prirodno-matematički fakultet.

Završni radovi III ciklusa studija:

- Emina Pramenković (2026) *Effect of non-steroidal anti-inflammatory drugs on biofilm formation and antibiotic susceptibility of Streptococcus mutans*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.
- Anisa Veleđar-Hamalukić (2026) *Chemical characterization, antioxidative, antibacterial, and antibiofilm properties of dried cranberry extracts*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.
- Katarina Hafner-Vuk (2024) *Comparative analysis of the chemical composition of Helichrysum italicum oil from different regions of Bosnia and Herzegovina, their antibacterial, antioxidative and antibiofilm properties and prediction of their properties using ML techniques*. International Burch University – Faculty of Engineering, Natural and Medical Sciences.

Drugo:

- Komisije za provođenje postupaka nabavke roba
- Komisije za popis imovine Univerziteta u Sarajevu – Prirodno-matematički fakultet
- Komisija za pokretanje procesa usvajanja i izmjene studijskih programa na prvom i drugom ciklusu studija Odsjeka za hemiju Univerziteta u Sarajevu – Prirodno-matematički fakultet

BIBLIOGRAFIJA

Recenzirani univerzitetski udžbenici (nakon izbora u posljednje zvanje)

- Dizdar, M., El Sayed, A., Obucic, M., Crmcevic, N. (2026) *Biofilms in Engineered Systems: Microbiology and Chemistry Behind Environmental Engineering Durability*, International Burch University, Sarajevo, ISBN 978-9958-834-83-7.
- Dizdar, M., El Sayed, A., Obucic, M., Crmcevic, N. (2026) *Microbiological and Chemical Approaches to Bacterial Identification in Construction and Water Engineering*, International Burch University, Sarajevo, ISBN 978-9958-834-84-4.

Recenzirani univerzitetski
udžbenici
(prije izbora u posljednje zvanje)

Publikovani naučni radovi u
časopisima koji prate relevantnu
međunarodnu bazu podataka
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Publikovani naučni radovi u
časopisima koji prate relevantnu
međunarodnu bazu podataka
(prije izbora u posljednje zvanje)

- Mahmutović-Dizdarević, I., Dizdar, M., Salihović, M., Jerković-Mujkić, A. (2022) [BILJKE Izolacija i identifikacija antimikrobnih spojeva](#), Prirodno-matematički fakultet, Sarajevo, ISBN 978-9926-453-56-5.
- 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.
- Dizdar, M., Obučić, M., Crmčević, N., Dinić, S., Uskoković, A., Jovanović, J. A., Borković-Mitić, S., Mladenović, A., Milanović, D., Pračer, S., Nestorović, N., (2026) Integrated Systemic and Neurobiological Effects of a Multi-Form Magnesium Supplement Compared to Single Magnesium Forms in Rats. *International Journal of Molecular Sciences*, 27(15), 6581, 10.3390/ijms27156581.
- Fetahović, S., Dizdar, M., Roca, S., Tüzün, B., Vujević, L., Kučera-Čavara, D., Zilić, D., Bešta Gajević, R., Dahija, S., Fočak, M., Višnjevac, A., Zahirović, A. (2026). Revisiting Copper(II) Schiff Base Complexes of Halogenated Salicylaldehyde 8-Aminoquinoline Derivatives as Promising Antimicrobial Scaffolds: Improved Structural Data, Characterization and Insights into DNA/BSA Binding and ROS. *Journal of Molecular Structure*, 145716, 10.1016/j.molstruc.2026.145716.
- Herenda, S., Osmic, E., Dizdar, M., Prevjak, S., Haskovic, E. (2025) Determination of the Inhibitory Effect of 2,2,4-trimethyl-2,3-dihydro-1H-benzo[b][1,4]diazepine on Acetylcholinesterase Enzyme Activity. *Current Enzyme Inhibition*, 1, 10.2174/0115734080402535250909065117.
- Ibragic, S., Djukic, A., Murga, M., Tuka, P., Radoncic, I., Bozur, I., Dizdar, M., Culum, D., Topcagic, A. (2025) Phenolic composition, cholinesterase inhibition, and *in silico* study of traditional medicinal plants from Bosnia and Herzegovina. *Natural Product Research*, 1, 10.1080/14786419.2025.2542309.
- Deumić, S., Crmčević, N., Hukić, M., Dizdar, M., Avdić, M. (2025) New Perspectives on the Impact of Iron Chelation Therapy on the Gut Microbiome in Thalassemia Patients. *Thalassemia Reports*, 15(1), 2, 10.3390/thalassrep15010002.
- Dizdar, M., Topčagić, A., Avdić, M., Vidic, D., Maksimović, M. (2025) Synthesis and Structural Insight into the Bioactivity of Imines with 1,5-Dimethyl-2-Phenyl-1H-Pyrazol-3(2H)-One Structural Unit Derived from Phenolic Aldehydes. *Chemistry in Industry*, 74(1-2), 7, 10.15255/KUI.2024.013.
- Dizdar, M., Vidic, D., Zeljković, S. Č., Maksimović, M. (2024) *In vitro* Antioxidant Activity of 5-caffeoylquinic Acid and Ester Analogues. *Current Analytical Chemistry*, 20(8), 582, 10.2174/0115734110299953240425035548.
- Ibragic, S., Djug, S., Dizdar, M., Topcagic, A., Pilic, S., Besta-Gajevic, R., Nuic, A., Gajevic, M., Vesnic, A., Sljuka, S., Musovic, A., Culum, D. (2024) GC-MS profiling of organic pollutants and physicochemical, histological, microbiological analyses of water and fish samples from Canton Sarajevo (Bosnia and Herzegovina) rivers. *Global Nest Journal*, 26(7), 1, 10.30955/gnj.06095.
- Ibragic, S., Mesinovic, A., Arnaut, S., Delic, E., Besta-Gajevic, R., Dahija, S., Dizdar, M., Karalija, E. (2024) Phytochemical and Bioactive Profile of Medicinal Plants Used Traditionally in Bosnia and Herzegovina. *The Natural Products Journal*, 14(7), 80, 10.2174/0122103155293731231230095516.
- Kristić, D., Dizdar, M., Čavar Zeljković, S., Kopečny, D., Topčagić, A. (2024) Binding constants and *in silico* analysis of albumin interaction with phenolic acids and flavonoids. *Bulletin of the Chemists & Technologists of Bosnia & Herzegovina*, 62, 13, 10.35666/2232-7266.2024.62.03.
- Toromanović, J., Medunjanin, D., Dizdar, M., Buza, N., Tresnjo, A., Tahirović, I. (2024) Correlation of total phenolics and antioxidant activity in royal jelly from Bosnia and Herzegovina. *Bulletin of the Chemists & Technologists of Bosnia & Herzegovina*, 63, 19, 10.35666/2232-7266.2024.63.03.
- Zahirović, A., Fetahović, S., Feizi-Dehneyebi, M., Bešta-Gajević, R., Dizdar, M., Ostojić, J., Roca, S. (2024) Substituent effect in salicylaldehyde 2-furoic acid hydrazones: Theoretical and experimental insights into DNA/BSA affinity modulation, antimicrobial and antioxidant activity. *Journal of molecular structure*, 1312, 138628, 10.1016/j.molstruc.2024.138628.
- Dizdar, M., Maksimović, M., Topčagić, A., Avdić, M., Vidic, D. (2023) Synthesis and bioactivity of 1-substituted tetrahydroisoquinolines derived from phenolic aldehydes. *Organic Communications*, 16(4), 197, 10.25135/acg.oc.159.2310.2920.
- Katavic, S., Cehic, I., Zukic, N., Mirvic, M., Dizdar, M., Gutalj, A., Mesic, A. (2023) *In vitro* assessment of the antioxidative, toxicological and antimicrobial properties of battery of parabens. *Drug and Chemical Toxicology*, 47(4), 463, 10.1080/01480545.2023.2222928.

- Tahirović, I., Kurtagić, K., Smječanin, N., Aldžić-Baltić, A., Bajramović, Z., Toromanović, J., Čopra-Janićijević, A., Dizdar, M., Buza, N. (2023) Correlations of Flavonoids Content and Antioxidant Activity in Bee Honey from Bosnia and Herzegovina. *Emirates Journal of Food and Agriculture*, 35(4), 262, 10.9755/ejfa.2023.v35.i4.3009.
- 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, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 54, 1, 10.35666/ghtbh.2020.54.01.
- Dizdar, M., Vidic, D., Požgan, F., Štefane, B., Maksimović, M. (2018) Acetylcholinesterase inhibition and antioxidant activity of *N*-trans-caffeoyldopamine and *N*-trans-feruloyldopamine. *Scientia Pharmaceutica*, 86(2), 1, 10.3390/scipharm86020011.
- Tahirović, I., Mahovac, E., Dizdar, M., Toromanović, J., Mahmutović, O., Lepara, Z., Ajanović, A. (2018) Hemoglobin HbA_{1c} and glucose blood levels in diabetic patients. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 50, 13.
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Proceedings i publikovani naučni radovi u časopisima koji prate relevantnu bazu podataka (nakon izbora u posljednje zvanje)

- Gallant, M., Crnčević, N., Hafner-Vuk, K., Kovačić, Dž., Dizdar, M., Avdić, M. (2026) Multi-Form Magnesium Supplementation: A Review of Bioavailability, Bioaccessibility, and Purity Considerations with Magnesium Breakthrough™ as a Case Example, *Proceedings of the International Conference on Medical and Biological Engineering*, 790, 10.1007/978-3-032-06531-5_72.
- Lavić-Zahirović, A., Pramenković, E., Deumić, S., Tahirović, E., Dizdar, M., Hukić, M., Avdić, M. (2026) Effect of Trimethoprim-Sulfamethoxazole on Bacterial Growth and Biofilm Formation in Reference Gram-Positive and Gram-Negative Strains, *Proceedings of the International Conference on Medical and Biological Engineering*, 853, 10.1007/978-3-032-06531-5_78.
- Pramenković, E., Hukić, M., Lavić-Zahirović, A., Dizdar, M., Dervišević, E., Mededović, S., Jusufović, I. (2026) Effect of Subinhibitory Moxifloxacin Concentrations on Biofilm Formation and Antibiotic Resistance in Gram-Positive and Gram-Negative Bacteria, *Proceedings of the International Conference on Medical and Biological Engineering*, 864, 10.1007/978-3-032-06531-5_79.

Proceedings i publikovani naučni radovi u časopisima koji prate relevantnu bazu podataka (prije izbora u posljednje zvanje)

- Etminan, A., Uzunović, A., Topčagić, A., Žero, S., Dizdar, M., Klepo, L., Čulum, D., Džudžević-Čančar, H., Tahirović, I. (2020) Quantification of Active Substances in Some Drugs Using Derivative UV/Vis spectroscopy, *International Conference on Medical and Biological Engineering*, 553, 10.1007/978-3-030-17971-7_83.
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- Arifović, L., Tahirović, I., Dizdar, M., Bačinović, V., Buza, N., Subašić, M., Tursanović, E. (2016) Determination of total proteins content in bee honey by UV spectrophotometry. *Works of the Faculty of Agriculture and Food Science*, 66(1), 99.
- Ajanović, A., Sofić, E., Tahirović, I., Šapčanin, A., Uzunović, A., Krehić, J., Gojak, R., Dizdar, M. (2015) Changes in lecithin concentrations in human blood with aging. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 44, 59.
- Tahirović, I., Boloban, A., Ibragić, S., Džudžević-Čančar, H., Toromanović, J., Lepara, O., Ajanović, A., Dizdar, M. (2015) Determination of gender and age specific differences in total iron levels in human serum using a spectrophotometric method. 1st Conference on Medical and Biological Engineering in Bosnia and Herzegovina, Sarajevo, *Proceedings*, 284.
- Gutić, S., Korać, F., Kurtić, R., Šehovac, S., Dizdar, M. (2013) Polianilinski filmovi na aktivnim substratima – uticaj ultrazvuka na adheziju i elektrohemijske osobine. *Zaštita materijala i životne sredine*, 2, 107.

Kongresna saopštenja (nakon izbora u posljednje zvanje)

- Čusto Mahalbašić, A., Dizdar, M., Topčagić, A. (2026) Computational Study of Benzodioxole-Based Chalcone Derivatives: DFT, ADME, and Albumin Binding Analysis. 6th 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, 86.

**Kongresna saopštenja
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