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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 OSPOBLJAVANJE

- 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

- *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 hidrosibenzojevih i hidrosicimetnih 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 Asteraceae* (Federanlno ministarstvo obrazovanja i nauke; 2015 – 2018)
- *Određivanje antioksidativnog kapaciteta protiv peroksidnih i hidrosilnih 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 odbranijenih Završnih radova I, II i III ciklusa studija**Završni radovi I ciklusa studija:**

- 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 govedeg 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 Cmčević (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.

Postdoktorski studij:

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

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:

- 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 klasa 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-metilumarinima. Univerzitet u Sarajevu – Prirodno-matematički fakultet.

Završni radovi III ciklusa studija:

- 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.

BIBLIOGRAFIJA

Recenzirani univerzitetski udžbenici

- 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.

Publikovani naučni radovi u časopisima koji prate relevantnu međunarodnu bazu podataka

- 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.
- Deumić, S., Crnčević, 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.
- Herenda, S., Osmic, E., Dizdar, M., Prevljak, 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.
- Dizdar, M., Vidic, D., Zeljković, S. Ć., 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., Slijuka, 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-Dehnayebi, 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.
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 - 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., Lepar, 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**
- 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.
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 - 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, 59-64.
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 - 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

- Bosno, M., Deumić, S., Crnčević, N., Tuka, P., Topčagić, A., Avdić, M., Dizdar, M. (2024) Synthesis, Structural Characterization and *In Vitro* Biological Evaluation of Novel B-Ring Trifluoromethylthio-Substituted Flavonoids. 5th 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*, 140.
- Ibragic, S., Culum, D., Dizdar, M., Topcagic, A., Pilic, S., Besta-Gajevic, R., Nuic, A., Gajevic, M., Vesnic, A., Sljuka, S., Musovic, A., Djug, S. (2024) Physico-Chemical, Histological, Microbiological Analyses and Organic Pollutants Determination of Water and Fish Samples from Miljacka River. 5th 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*, 92.
- Ibragic, S., Murga, M., Tuka, P., Radoncic, I., Dizdar, M., Topcagic, A. (2024) Phenolic profiling and enzyme inhibitory potential of leaf extracts used in traditional medicine of Bosnia and Herzegovina. 2nd European Symposium on Phytochemicals in Medicine and Food, *Genetics and Applications*, Special edition, *Book of abstracts*, 36.
- Ibragic, S., Tuka, P., Djukic, A., Bozur, I., Murga, M., Dizdar, M., Topcagic, A. (2024) Phenolic composition and enzyme inhibitory activities of selected medicinal plant extracts. 2nd European Symposium on Phytochemicals in Medicine and Food, *Genetics and Applications*, Special edition, *Book of abstracts*, 35.
- Kovač, K., Delibašić, M., Dizdar, M., Čavar Zeljković, S., Topcagic, A. (2024) Binding Determination and Interaction Study of Human Serum Albumin with 6- and 7-substituted 4-methylcoumarins. 5th 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*, 54.
- Dedić, A., Topčagić, A., Čavar-Zeljšković, S., Dizdar, M., Klepo, L., Ostojić, J., Čopra-Janićijević, A. (2023) Effect of synthesized 4-methylcoumarin benzoates on binding to bovine serum albumin. International Conference of Biochemists and Molecular Biologists in Bosnia and Herzegovina, *Genetics and Applications*, Special edition, *Book of abstracts*, 53.
- Topčagić, A., Tuka, P., Čavar-Zeljšković, S., Dizdar, M., Klepo, L., Ostojić, J., Čopra-Janićijević, A. (2023) Binding determination of human albumin serum with selected 4-methylcoumarins. International Conference of Biochemists and Molecular Biologists in Bosnia and Herzegovina, *Genetics and Applications*, Special edition, *Book of abstracts*, 52.
- Dizdar, M., Žugor, I., Mahmutović, O., Toromanović, J., Tahirović, I. (2022) Determination of Melatonin in Berry Fruits by Fluorescence Spectroscopy, 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*, 75.
- Fazlić, A., Ligata, E., Dizdar, M., Čavar Zeljković, S., Topčagić, A. (2022) Fluorimetric interaction studies of albumin with 7-substituted-4-methylcoumarins. 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*, 52.
- Herenda, S., Osmić, E., Dizdar, M., Ostojić, J., Hasković, E. (2022) Examination of the Influence of 2,2,4-Trimethyl-2,3-dihydro-1H-benzo[b][1,4]diazepine on the Activity of Acetylcholinesterase, 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*, 178.
- Ligata, E., Fazlić, A., Dizdar, M., Čavar Zeljković, S., Topčagić, A. (2022) Binding constants determination of the interaction of albumin with 6-substituted-4-methylcoumarins, 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*, 51.
- Smaka, E., Karadža, A., Čopra-Janićijević, A., Dizdar, M., Maksimović, M. (2022) Antioxidant and AChE Inhibitory Activity of Some Helicin Derivatives, 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*, 166.
- Toromanović, J., Ibragic, S., Medunjanin, D., Dizdar, M., Buza, N., Trešnjo, A., Tahirović, I. (2022) Total Phenolics, Total Proteins and Antioxidant Activity

- in Royal Jelly from Bosnia and Herzegovina, 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*, 81.
- Bošković, A., **Dizdar, M.**, Topčagić, A. (2021) Macronutrients quantification and antioxidant activity of soy products. 1st International conference of Food and Climate change, *Book of Abstracts*, 65.
 - Kurtagić, H., Tahirović, I., Smječanin, N., Aldžić-Baltić, A., Bajtamović, Z., Toromanović, J., Čopra-Janićjevuć, A., **Dizdar, M.**, Buza, N. (2021) Content of flavonoid and antioxidant activity in bee honey from Bosnia and Herzegovina. 1st International conference of Food and Climate change, *Book of Abstracts*, 35.
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