

<b>PERSONAL INFORMATION</b>	
Name and Surname	Anita Ivanković
Address	Biskupa Čule bb, Mostar
Phone	00387 36 337 117
Email	anita.ivankovic@aptf.sum.ba
Academic title	full professor
Field of scientific research	environmental chemistry, chromatography, spectrophotometry, eutrophication, green chemistry
Field of teaching	General and Inorganic Chemistry, Green Chemistry, Chemistry of Water

<b>ELABORAT</b>	
Teaching activity	.
- Undergraduate study	Chemistry - General Agriculture (Coordinator) Chemistry 1 - Food Technology (Coordinator) Chemistry 2 - Food Technology (Associate) Water Technology and Wastewater Treatment – Food Technology (Coordinator)
- Graduate study	Green Chemistry - Food Engineering, Nutrition (Coordinator) Selected chapters of applied chemistry – Agronomy (Coordinator)
- Doctoral study	Biology and Water Chemistry (Coordinator) Pollution and water protection (Coordinator)
Scientific interests	environmental analytical chemistry, water chemistry, chromatography, spectrophotometry, soil, sediment, eutrophication, green chemistry
Academic qualifications	2010. - Ph.D. thesis Faculty of Agriculture and Food Technology University of Mostar Physical-chemical and biological characteristics of Blidinje Lake 2003. - Master thesis University of Zagreb Faculty of Chemical Engineering and Technology



	<p>Chromatographic determination of pesticides in the soils of the Neretva River valley</p> <p>1999. - Faculty of Pedagogy University of Mostar</p>
Scientific and professional projects	<p>2022. – Project: Monitoring of the physical-chemical and biological properties of the water of the Blidinje Lake - funded by the Federal Ministry of Education and Science, awarded under the Competition for Co-financing of Research and Development Projects in the Federation of B&amp;H in 2022 - Head</p> <p>2019 - Project: Application of IT devices as detectors in colorimetric chemical analyses - funded by the Federal Ministry of Education and Science, awarded under the Competition for Co-financing of Research and Development Projects in the Federation of B&amp;H in 2019 - Head</p> <p>2017. - Project: Application of natural extracts as acid-base indicators - financed by the Federal Ministry of Education and Science, awarded by the Bid for Financing / Co-financing of Scientific Research and Research and Development Projects in the Federation of Bosnia and Herzegovina in 2017 - Head</p> <p>(Helichrysum italicum (Roth) G.Don) - funded by the Federal Ministry of Education and Science, awarded by the Fund for Financing / Co-financing of Scientific Research and Research and Development Projects in the Federation of Bosnia and Herzegovina in 2015. year - associate</p> <p>2014 - Project "Testing of the Physical and Chemical Properties of Lower Neretva River Stream with Salinity" (2014), Implementing Body: APTF, Funded by: FMON, Project Manager</p> <p>2014. - Martinović Bevanda, A.; Šagolj, V.; Ivanković, A. and Talić, S. (2014): Green chemistry by using flow analysis: Determination of iron ions with green tea extract as reagents. Bulletin of Chemists and Technologists of Bosnia and Herzegovina, Sarajevo September 2014, poster presentations</p> <p>2013. - 24th International Scientific-Expert Conference of Agriculture and Food Industry, Sarajevo, September 2013, "Analysis of vineyard peach population diversity in Herzegovina region", poster presentation</p> <p>2012 - Project "Assessment of the level of Blidin's Lake trophy based on physical-chemical and biological properties of water, financed by the FBiH Environmental Protection Fund (2012) - project manager</p> <p>2012. - Workshop HERD-projects: Pomological and chemical characteristics of vineyard peach from Herzegovina, oral announcement (in English) - Mostar 11.-12. April 2012</p> <p>2012. - Days of Chemistry, Invited lecture, University of Mostar, Faculty of Natural Sciences and Mathematics and Education, Mostar, March, 2012</p>



	<p>2011. -1. Scientific symposium TOURIST-CATERING AND ENVIRONMENTAL RESOURCES OF BOSNIA AND HERZEGOVINA - Plenary lecture, University of Tuzla, Faculty of Technology, Tuzla, October, 2011.</p> <p>2011 - Project "Assessment of the level of Blidin's Lake trophy based on the physico-chemical properties of water, financed by the Federal Ministry of Education and Science - project manager</p> <p>2010 - 3rd Croatian Botanical Congress with International Participation September 24 - 26, 2010 Island of Murter, Croatia</p> <p>2010. - BALWOIS 2010 CONFERENCE, 25-29 May 2010, Ohrid, Republic of Macedonia, oral presentation</p> <p>2009 - 2015 - Project: "Providing genetic diversity and healing plants for horticulture in Bosnia and Herzegovina", financed by: Program in Higher Education, Research and Development (HERD) in the Western Balkans, BIOFORSK AAS.</p> <p>2009 - Land Use Value Map in Herzegovina-Neretva Canton / Counties Level 1: 25000, Federal Ministry of Agriculture</p> <p>2009. - Study on the possibility of using hydrocracking in the HNP area for fish cage breeding</p> <p>2005 - XIX Croatian Conference of Chemists and Chemical Engineers (Opatija, Croatia, April 24-27, 2005)</p> <p>2005. - Tempus IB_JEP project 16140-2001. Study trip (Lleida, Spain, 4-10 April 2005)</p> <p>2004. - Scientific-research project: Quantitative determination of pesticide content in the soils of the Neretva River Valley, FMON</p> <p>2004. - Tempus IB_JEP project 16140-2001. Study trip (Lleida, Spain, February 10-15, 2004)</p> <p>2004 - The first Croatian botanical symposium, (Zagreb, Croatia 3.9.-2.10.2004)</p> <p>2003. - Tempus IB_JEP project 16140-2001. "Quality Management System" and "HACCP - Theory and Practice"</p> <p>2003 - Tempus IB_JEP Project 16140-2001 »Quality System in Laboratories« and «Sensory Analysis«</p> <p>2003 - SEM (International Symposium on Environmental Management, Organizer FKIT, paper entitled "Chromatographic determination of pesticides in the soils of the Neretva river valley" (Zagreb, Croatia, 1-3.10.2003)</p> <p>2003. - Workshop, Faculty of Agriculture, University of Mostar, Lecture titled "Determination of pesticides by thin layer chromatography in different types of cultivable soil in Herzegovina", May 2003.</p>
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Scientific Improvement	<p>2005. - Dairy industry (Barcelona, Spain, July 2005)</p> <p>2003. - New alternatives for sustainable rainfed agriculture in the Mediterranean region, Cordoba, Spain</p>
Membership in associations	<ul style="list-style-type: none"> <li>- Croatian Chemical Society since 2017</li> <li>- Guest reviewer of journal Green Sustainable Chemistry since 2018. ( <a href="http://www.scirp.org/journal/GSC/">http://www.scirp.org/journal/GSC/</a>)</li> </ul>
Scientific Bibliography	<p>Books:</p> <p>1. Ivanković, A. Blidinjsko jezero - Review of eutrophication. Mostar: University of Mostar, 2013.</p> <p>2. Ivanković, A. and Martinović Bevanda, A. Chemistry for biotechnical faculties. Mostar: University of Mostar, 2018.</p> <p>3. Ivanković, A. and Filipović, A. Agrochemistry and Sustainable Chemistry for Biotechnical Faculties, University of Mostar, Pressum, 2022.</p> <p>Scientific papers:</p> <p>Martinović Bevanda, A., Matić, A., Talić, S., Ivanković, A., Prkić, A., Paut, A. and Vukušić, T. (2022): Rapid Potentiometric Determination of Ascorbic Acid Using Iodate as a Reagent, Int. J. Electrochem. Sci., 17 (2022) Article Number: 220730, doi: 10.20964/2022.07.50</p> <p>Rozić, I., Ivanković, A. (2022): Physicochemical water quality indicators in the Neretva river basin (B&amp;H) with reference to ecological conditions for endemic salmonids, Ekológia (Bratislava), Vol. 41, No. 1, p. 1–8, doi:10.2478/eko-2022-0001</p> <p>Ivanković, A., Martinović Bevanda, A., Pehar, M., Stipanović, A., Talić S. Petrović, D. (2021): Developing of a method for determining ascorbic acid using a smartphone as a detector, 15th International Conference on Fundamental and Applied Aspects of Physical Chemistry 2021, Proceedings, September 20-24, 2021, Belgrade, Serbia, pp 713-715</p> <p>Martinović Bevanda, A., Ivanković, A., Talić, S., Stipanović, A., Petrović, D. (2021): Determination of Ethanol in Wine and Distilled Alcoholic Beverages Using a Smartphone as a Detector, International Journal of Computational and Theoretical Chemistry, 9(2): 43-47, doi: 10.11648/j.ijctc.20210902.13</p> <p>Talić, S. and Ivanković, A. (2021): Social responsibility in the STEM field of higher education, The importance of science in the development of functional knowledge and skills of pupils and students, Proceedings of FMON, Sarajevo.</p> <p>Talić, S., Škobić, D., Dedić, A., Nazlić, N., Ujević, I., Ivanković, A., Pavela-Vrančić, M. (2020): The occurrence of lipophilic toxins in shellfish from</p>



the Middle Adriatic Sea, *Toxicon*, 186(2020), 19-25, doi.org/10.1016/j.toxicon.2020.07.026

Bevanda A.M., Talić S., Ivanković A. (2019) Flow Injection Analysis Toward Green Analytical Chemistry. In: Płotka-Wasyłka J., Namieśnik J. (eds) *Green Analytical Chemistry. Green Chemistry and Sustainable Technology*. Springer, Singapore; pp: 299-323, DOI: 10.1007/978-981-13-9105-7\_10

Kurowska-Susdorf, A., Zwierzdzyński, M., Martinović Bevanda, A., Talić, S., Ivanković, A. and Płotka-Wasyłka, J. (2019): *Green Analytical Chemistry: Social dimension and teaching*, *Trends in Analytical Chemistry* 111 (2019) 185-196 doi.org/10.1016/j.trac.2018.10.022, IF: 7,034 (SCI)

Martinović Bevanda, A., Ivanković, A., Talić, S., Batinić, K., Škobić, D., Brkljača, M., Martinović, I. i Prusina T. (2018): Chemometric classification of white Hercegovinum wine Žilavka based on physical and chemical properties, *Znanstveno-stručni skup s međunarodnim sudjelovanjem 130 godina organiziranoga vinogradarstva i vinarstva u Bosni i Hercegovini*, Zbornik radova, Mostar 2018, 168-177

Talić, S., Soldo, I., Marković Boras, M., Ivanković, A., Martinović Bevanda, A. (2018): Polyphenol content and antioxidant activity of wine Žilavka, *Znanstveno-stručni skup s međunarodnim sudjelovanjem 130 godina organiziranoga vinogradarstva i vinarstva u Bosni i Hercegovini*, Zbornik radova, Mostar 2018, 142-152

Šaravanja, P., Ivanković, A., Mandić, A., Gaši, F., Beljo, J. and Vego, D. (2018): Analysis of vineyard peach populations diversity in Herzegovina region, , *Znanstveno-stručni skup s međunarodnim sudjelovanjem 130 godina organiziranoga vinogradarstva i vinarstva u Bosni i Hercegovini*, Zbornik radova, Mostar 2018, 55-66

Ivanković, A., Martinović Bevanda, A., Martinović, M., Petrović, D., Perić, M., Drmać, F. and Talić, S. (2018): Possibilities of applying natural extracts as acid-base indicators, *14th International Conference on Fundamental and Applied Aspects of Physical Chemistry 2018*, Proceedings, September 24-28, 2018, Belgrade, Serbia, pp 853-856

Jurković, J., Velagić Habul, E., Dorfler, W., Omanović Mikličanin, E., Hamidović, S. and Ivanković, A. (2018): Deposition of metals in glacial lake sediment, *Polish Journal of Soil Science* 51(2):255-270, DOI: 10.17951/pjss/2018.51.2.255

Ivanković, A., Ćosić, N., Knezović, Z. and Vasilj, V. (2018): Trophic status of Blidinje lake (Bosnia and Herzegovina) based on the determination of the trophic state index (TSI), *Ekológia (Bratislava)*, Vol. 37, No. 1, p 1-10, DOI:10.2478/eko-2018-0001

Martinović Bevanda, A., Talić, S., Ivanković A. and Marić, L. (2017): Spectrophotometric determination of Fe ions using green tea extract,



	<p>Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Issue 49, 2017, pp 39-42</p> <p>Ivanković, A., Petrović, D., Ivanković, P. and Majstorović, J. (2017). Monitoring of Water Salinity of the Lower River Neretva (B&amp;H). International Journal of Energy and Environmental Science. Vol. 2, No. 6, 2017, pp. 136-143. doi: 10.11648/j.ijees.20170206.13</p> <p>Ivanković, A., Dronjić, A., Martinović Bevanda, A. and Talić, S., Review of 12 Principles of Green Chemistry in Practice. International Journal of Sustainable and Green Energy. Vol. 6, No. 3, 2017, pp. 49-48. doi: 10.11648 / j.ijrse.20170603.12</p> <p>Ivanković, A., Zeljko, K., Talić, S., Martinović Bevanda, A. and Lasić, M.; Biodegradable packaging in the food industry; Journal of Food Safety and Food Quality, Archiv für Lebensmittelhygiene, No.2, Volume 68, March / April 2017, pp. 23-52, DOI 10.2376 / 0003-925X-68-26; (WOS); IF: 0.267</p> <p>Sefo, E., Matotan, Z., Knezović, Z., Ivanković, A. And Arar, K. (2016): Nutritional characteristics of kale population from the Herzegovina region, Sarajevo, Vol. LXI, No. 66/1</p> <p>Ivanković, A.; Jurković, J. ; Velagić Habul, E. ; Talić, S. and Martinović Bevanda, A. (2015): Contribution to the Knowledge of Blidinje Lake Sediment (Bosnia and Herzegovina), Austin Journal of Earth Science, Volume 2 Issue 3, ISSN: 2380-0771</p> <p>Martinović Bevanda, A.; Talić, S. and Ivanković, A. (2015): Green Analytical Chemistry in Teaching Laboratory: Spectrophotometric Determination of Fe Ions by Using Green Tea to Demonstrate the Principles of Sequential Injection Analysis. Austin Journal of Analytical and Pharmaceutical Chemistry, Volume 2 Issue 3, ISSN: 2381-8913</p> <p>Martinović Bevanda, A.; Šagolj, V.; Ivanković, A. and Talić, S. (2014): Green chemistry by using flow analysis: Determination of iron ions with green tea extract as reagents. Bulletin of Chemists and Technologists of Bosnia and Herzegovina, Sarajevo, September 2014.</p> <p>Ivanković, A.; Jurković, J.; Velagić Habul, E. (2014): Chemical and biological characteristics of Blidinje Lake sediment. Scientific Bulletin; Journal of Natural and Technical Sciences, University of Mostar, ISSN 1025-7977, no. 23, Vol. 23, pp. 121-137</p> <p>Vego D., Šaravanja P., Ivanković A., Sabljko A., Gaši F., Beljo J. (2013): Analysis of vineyard peach population in the region of Herzegovina 24th International Scientific-Expert Conference of Agriculture and Food Industry, Sarajevo, September 2013, summary of summaries</p> <p>Ivanković, A. and Ivanković, P., (2013) Physical and chemical characteristics of the Lower Neretva River Stream (Bosnia and Herzegovina) in terms of benefits for the life of indigenous fishes, 48th Croatian and 8th International Symposium of Agronomists,)</p>
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	<p>Sefo, E., Matotan, Z., Knezović, Z., Arar, K., Ivanković, A. (2012): Valorization of indigenous populations of raisins (<i>Brassica oleracea</i> var. Proceedings, Third International Congress on Rural Tourism, "Rural Tourism - a Trigger of Sustainable Development", 23-26. May, Osijek, (accepted)</p> <p>Filipovic, A., Poljak, M., Sabljo, A., Sefo, E., Ivankovic, A., Reaction of autochthon herzogovinan potato cultivar Poluranka on different N fertilization management.; <i>Acta Horticulturae</i>. 960 (2012); 387-392 DOI: 10.17660 / <i>ActaHortic</i>.2012.960.55 (CAB)</p> <p>Ivanković A., Hafner D .: Water quality assessment of shallow high mountain lake Blidinje (Bosnia and Herzegovina) based on the biological properties. <i>Ecology (Bratislava)</i>, Vol. 31, No. 3, p.295-308, 2012, DOI: 10.4149 / <i>ekol_2012_03_295</i> (SCI)</p> <p>Ivankovic A., E. Velagic Habul and Z. Knezovic (2011): Physical and chemical characteristics of the high mountain Lake Blidinje (in a karst area of Bosnia and Herzegovina) with emphasis on its trophic status, <i>Oceanological and Hydrobiological Studies</i> Vol. 40, No. 3, 19-27, DOI: 10.2478 / <i>s13545-011-0025-4</i> (SCI)</p> <p>Ivankovic A. and D. Hafner (2010): Phytoplankton and Phytobenthos of Blidinje Lake (Bosnia and Herzegovina); Third Croatian Botanical Congress with International Participation, Book of Abstracts, Murter, September 2010.</p> <p>Ivanković A., E. Velagić Habul, D. Hafner and Z. Knezović, (2010), Blidinje Lake - Some Chemical and Hydrobiological Characteristics, BALWOIS 2010 Ohrid, Macedonia</p> <p>Zelenika A., I. Bošnjak: Chromatographic determination and ultrasound extraction of pesticides from the soil, 3rd Symposium on Plant Protection in BiH, Summary of the Summary, Neum (2006); 70-71</p> <p>Zelenika A., S. Babić, M. Kaštelan-Macan, Chromatographic Determination of Pesticides in Soils of the Neretva River Valley. U: <i>Environmental Management; Contribution to Solution</i> (Natalija Koprivanac), University of Zagreb, Faculty of Chemical Engineering and Technology, Zagreb 2005 (scientific paper in the book)</p> <p>Babic S., A. Zelenika, J. Macan and M. Kastelan-Macan (2006): "Ultrasonic extraction and TLC determination of glyphosate in the spiked red soils"; <i>Agriculturae Conspectus Scientificus (ACS)</i> Vol. 70 (2005) No. 3; 99-103, (CAB)</p> <p>Zelenika A. (2005): Ultrasound extraction of soil glyphosate and TLC determination as a preliminary method for HPLC; <i>Scientific Bulletin</i>, ISSN 1025-7977, 16, Mostar, BiH</p>
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	<p>Petrović D., A. Zelenika, S. Marić (2005): Influence of <i>Achillea millefolium</i> essential oil on microorganisms; International Symposium: Blidinje 2005, Proceedings</p> <p>Kastelan-Macan M., S. Babic, A. Zelenika, J. Macan: "Determination of atrazine and fenarimol extraction efficiency by thin-layer chromatography", AGROCHIMICA International Journal of Plant Chemistry, Soil Science and Fertilization; Identification no. : 395, 49, 246-251, 2005 (Current Contents)</p> <p>Zelenika A., S. Babić, J. Macan, M. Kaštelan-Macan: "Chromatographic determination and ultrasonic extraction of soil glyphosate", XIX Croatian congress of chemists and chemical engineers, Proceedings, 24-27. 4. 2005.</p> <p>Zelenika A., I. Bosnjak: Application of Gas Chromatography in Environmental Chemistry, Proceedings of the Faculty of Agriculture, 2004.</p> <p>Ivanković S., I. Bogut, V. Batinić, A. Zelenika: "Production and nutritional value of dry oak leaf in Herzegovina", International symposium "Sustainable exploitation of plant and animal genetic resources in the Mediterranean area", Proceedings of the 14th- 16th October 2004.</p> <p>Petrović D., A. Zelenika: "Antimicrobial activity of the essential oil of <i>Achillea millefolium</i>", 1st Croatian botanical symposium, Proceedings, 3.9.-2.10. 2004th</p> <p>Ivanković S., A. Zelenika, Z. Knezović: Breed Composition of Cattle in West Herzegovina Canton, Proceedings of the 55th Annual Meeting of the EAAP, Bled, Slovenia, 2004.</p> <p>Zelenika A., S. Babić, M. Kaštelan-Macan (2004): «Chromatographic determination of atrazine and phenarimole in soils», Scientific Bulletin, ISSN 1025-7977, 14, Mostar, BiH</p> <p>Zelenika A., S. Babić, M. Kaštelan-Macan: "Chromatographic determination of pesticides in the soils of the Neretva river valley", 1st International Symposium on Environmental Management, Zagreb, Croatia, 2003.</p> <p>Professional papers:</p> <p>Šupljeglav Jukić, A. and Ivanković, A. (2022): Water quality and recharge of „Bošnjaci“ spring, Works of the Faculty of Agriculture and Food Sciences, University of Sarajevo, Vol. LXVII, No. 72/1</p> <p>Bubalo, M., Šumelj, I., Herceg, K., Ivanković, A. (2022): Influence of The Number of Visitors on The Quality of Bathing Water at The Kravica Waterfall (Bosnia and Herzegovina), Holistic Approach Environ. 12(2022) 4, pp. 165 – 171, doi.org/10.33765/thate.12.4.4</p> <p>Ivanković, A., Ivanković, P., Petrović, D., Anđelić, T., Majstorović, J. (2017): Salinity and physicochemical water parameters of lower flow</p>
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	<p>of river Neretva, Electronic Journal of the Faculty of Civil Engineering Osijek-eGFOS, 15, pp. 75-84, <a href="https://doi.org/10.13167/2017.15.7">https://doi.org/10.13167/2017.15.7</a></p> <p>Ćorić R., H. Resulović, M. Bogunović, N. Tanović, F. Čatović, S. Hadžiabulić, A. Filipović, A. Ivanković, V. Vasilj, D. Jurković, J. Primorac and M. Zovko, Dž. Vukotić, A. Kajtaz, Z. Juklo, (2011), Charter of Use of Land Value in the Municipality of Stolac; Mediterranean herbs, Stolac 2011</p> <p>Ćorić R., M. Bogunović, S. Husnjak, A. Filipović, A. Ivanković, V. Vasilj, D. Jurković, J. Primorac and M. Zovko, (2010), Map of Usage Value of Land in Čitluk Municipality; 55 Days of Grape Harvest, Brotnjo 2010.</p>
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