

## PERSONAL INFORMATION

## Milka Maksimović



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Sex F | Date and place of birth 25.09.1952, Sarajevo | Nationality BiH

## WORK EXPERIENCE

- 2017 - today **Professor emeritus**  
University of Sarajevo, Bosnia and Hercegovina
- 2009 - 2017 **Full professor (Organic chemistry and Biochemistry)**  
University of Sarajevo-Faculty of Science, Bosnia and Hercegovina
- 2003 - 2009 **Associate professor (Organic chemistry and Biochemistry)**  
University of Sarajevo-Faculty of Science, Bosnia and Hercegovina
- 1996 - 1998 **Assistant professor (Organic chemistry)**  
University of Sarajevo-Faculty of Pharmacy, Bosnia and Hercegovina
- 1993 - 2003 **Assistant professor (Organic chemistry and Biochemistry; Chemistry for non-majoring studies)**  
University of Sarajevo-Faculty of Science, Bosnia and Hercegovina
- 1985 - 1993 **Senior teaching assistant (Organic chemistry and Biochemistry)**  
University of Sarajevo-Faculty of Science, Bosnia and Hercegovina
- 1977 - 1985 **Teaching assistant (Organic chemistry and Biochemistry)**  
University of Sarajevo-Faculty of Science, Bosnia and Hercegovina

## EDUCATION AND TRAINING

- 1997 **OAD study visit**  
Institut für Organische Chemie, Universität Wien, Austria
- 1996 **SOROS study visit**  
New College, University of Oxford, England
- 1991 **PhD in Natural Sciences-Chemistry**  
University of Sarajevo-Faculty of Science, Bosnia and Hercegovina
- 1985 **MSc in Chemistry**  
University of Sarajevo-Faculty of Science, Bosnia and Hercegovina
- 1983 **Training course in anti-doping control**  
Drug Control and Teaching Centre - Chelsea College, London, England
- 1976 **Graduate Chemical Engineer**  
University of Sarajevo-Faculty of Science, Bosnia and Hercegovina

## PERSONAL SKILLS

Mother language Bosnian – Croatian - Serbian

## Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	A2	A2	A2	A2	A2

Communication skills Many years of experience in undergraduate and postgraduate teaching; aptitude for teamwork; ability to adapt to multicultural environments acquired during study visits abroad; good communication skills acquired during work experience; leadership; sense of organization

Organizational / managerial skills  
(2012-2016)

Head of the Department of Chemistry, University of Sarajevo-Faculty of Science

## Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Solving problems
Experienced user	Experienced user	Experienced user	Independent user	Independent user

## ADDITIONAL INFORMATION

## Editorial board

*Research and Reports in Biodiversity Studies*, Dove Medical Press (2010 - danas)  
*Glasnik hemičara i tehologa Bosne i Hercegovine* (2010 - danas)

## Reviewer in international journals

*Academia Journal of Food Research*: Academia Publishing  
*Analytical Letters*, Publisher: Taylor & Francis Group  
*Archives of Industrial Hygiene and Toxicology*, Publisher: Institute for Medical Research and Occupational Health, Croatia  
*Biochemical Systematics and Ecology*, Publisher: Elsevier.  
*Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, Publisher: PMF Sarajevo  
*Food and Chemical Toxicology*, Publisher: Elsevier.  
*Food Chemistry*, Publisher: Elsevier.  
*Industrial Crops and Products*, Publisher: Elsevier.  
*Journal of Agricultural & Food Chemistry*, Publisher: American Chemical Society.  
*Journal of Applied Pharmaceutical Science*, Publisher: SAGEYA Publishing  
*Journal of Food Biochemistry*, Publisher: Wiley-Blackwell.  
*Journal of Medicinal Plants Research*, Publisher: Academic Journals.  
*Journal of the American Oil Chemists' Society*, Publisher: Springer Berlin.  
*Journal of the Science of Food and Agriculture*, Publisher: Wiley.  
*Journal of the Serbian Chemical Society*, Publisher: Serbian Chemical Society.  
*Molecules*, Publisher: Molecular Diversity Preservation Int, Basel.  
*Natural Product Communications*, Publisher: Natural Products Inc, Westerville.  
*Natural Product Research*, Publisher: Taylor & Francis Group  
*Pakistan Journal of Pharmaceutical Sciences*, Publisher: Faculty of Pharmacy, University of Karachi  
*Pharmaceutical Biology*, Publisher: Informa Pharmaceutical Science.  
*Toxicological & Environmental Chemistry*: Publisher: Taylor & Francis Group

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## SCIENTIFIC PAPERS

1. Čulum, D., Čopra-Janičević, 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*, 16(4) 335-345. <http://doi.org/10.25135/rmp.285.2107.2143>
2. Tomic, N., Pojskic, L., Kalajdzic, A., Ramic, J., Kadric, N., Ikanovic, T., **Maksimovic, M.**, & Pojskic, N. (2020). Screening of preferential binding affinity of selected natural compounds to SARS-CoV-2 proteins using in silico methods. *Eurasian Journal of Medicine and Oncology, EJMO 2020*; 4(4), 319-323. <https://doi.org/10.14744/ejmo.2020.72548>
3. Čopra-Janičević, A., Vidic, D., & **Maksimović, M.** (2020). Characterization of *Satureja montana* L. essential oil and headspace volatiles. *NVEO, Natural Volatiles & Essential Oils*, 7(2), 22-34. <https://doi.org/10.37929/nveo.743706>
4. Zeljković Čavar, S., Siljak-Yakovlev, S., Tan, K., & **Maksimović, M.** (2020). Chemical composition and antioxidant activity of *Geranium macrorrhizum* in relation to ploidy level and environmental conditions. *Plant Systematics and Evolution*, 306(2), 18. <https://doi.org/10.1007/s00606-020-01649-9>
5. Vidic, D., Čopra-Janičević, A., Miloš, M., & **Maksimović, M.** (2018). Effects of Different Methods of Isolation on Volatile Composition of *Artemisia annua* L., *International Journal of Analytical Chemistry*, Volume 2018, Article ID 9604183, 6 pages. <https://doi.org/10.1155/2018/9604183>
6. Čulum, D., Čopra-Janičević, A., Vidic, D., Klepo, L., Tahirović, A., Bašić, N., & **Maksimović, M.** (2018). HPLC-ED Analysis of Phenolic Compounds in Three Bosnian *Crataegus* Species. *Foods*, 7(5), 66. <https://doi.org/10.3390/foods7050066>
7. 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), 11. <https://doi.org/10.3390/scipharm86020011>
8. Čavar Zeljković, S., Tan, K., Siljak-Yakovlev, S., & **Maksimović, M.** (2017). Essential Oil Profile, Phenolic Content and Antioxidant Activity of *Geranium kikianum*, *Natural Product Communications*, 12(2), 273-276. <https://doi.org/10.1177/1934578X1701200234>
9. Ivankovic, S., Stojkovic, R., **Maksimovic, M.**, Galic, B., & Milos, M. (2016). Impact of calcium ion on cytotoxic effect of the boroxine derivative,  $K_2[B_3O_3F_4OH]$ , *Journal of Enzyme Inhibition and Medicinal Chemistry*, 31(S3), 70–74. <https://doi.org/10.1080/14756366.2016.1204611>
10. Vidic, D., Čavar Zeljković, S., Dizdar, M., & **Maksimović, M.** (2016). Essential oil composition and antioxidant activity of four Asteraceae species from Bosnia. *Journal of Essential Oil Research*, 28(5) 445-457. <https://doi.org/10.1080/10412905.2016.1150216>
11. Čavar Zeljković, S., Topčagić, A., Požgan, F., Štefane, B., Tarkowski, P., & **Maksimović, M.** (2015). Antioxidant activity of natural and modified phenolic extracts from *Satureja montana* L. *Industrial Crops and Products*, 76, 1094-1099. <https://doi.org/10.1016/j.indcrop.2015.08.009>
12. Čavar Zeljković, S., Šolić, M. E., & **Maksimović, M.** (2015). Volatiles of *Helichysum italicum* (Roth) G. Don from Croatia. *Natural Product Research*, 29(19) 1874-1877. <https://doi.org/10.1080/14786419.2015.1009458>
13. Čavar Zeljković, S., & **Maksimović, M.** (2015). Chemical composition and bioactivity of essential oil from *Thymus* species in Balkan Peninsula, *Phytochemistry Reviews*, 14(3) 335-352. <https://doi.org/10.1007/s11101-014-9378-9>
14. Dahija, S., Čakar, J., Vidic, D., **Maksimović, M.**, & Parić, A. (2014). Total phenolic and flavonoid contents, antioxidant and antimicrobial activities of *Alnus glutinosa* (L.) Gaertn., *Alnus incana* (L.) Moench and *Alnus viridis* (Chaix) DC. extracts. *Natural Product Research*, 28(24), 2317-2320. <https://doi.org/10.1080/14786419.2014.931390>
15. Čakar, J., Haverić, A., Haverić, S., **Maksimović, M.**, & Parić, A. (2014). Cytotoxic and genotoxic activity of some *Helleborus* species, *Natural Product Research*, 28(12), 883-887. <https://doi.org/10.1080/14786419.2014.889135>
16. Vidic, D., Tarić, E., Alagić, J., & **Maksimović, M.** (2014). Determination of total phenolic content and antioxidant activity of ethanol extracts from *Aloe* spp. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 42, 5-10. <http://pmf.unsa.ba/hemija/glasnik/files/Issue%2042/Issue%2042%20novi/42-2-Vidic.pdf>
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18. Čavar, S., Šolić, M. E., & **Maksimović, M.** (2013). Chemical composition and antioxidant activity of two *Satureja* species from Mt. Biokovo. *Botanica Serbica*, 37(2): 159-165. [https://botanicaserbica.bio.bg.ac.rs/2014\\_38\\_1.html](https://botanicaserbica.bio.bg.ac.rs/2014_38_1.html)
19. Čavar, S., Kovač, F., & **Maksimović, M.**, (2012). Evaluation of the Antioxidant Activity of a Series of 4-Methylcoumarins Using Different Testing Methods, *Food Chemistry*, 133, 930-937. <https://doi.org/10.1016/j.foodchem.2012.02.006>
20. Čavar, S., **Maksimovic, M.**, Vidic, D., & Parić, A. (2012). Chemical Composition and Antioxidant and Antimicrobial Activity of Essential Oil of *Artemisia annua* L. from Bosnia, *Industrial Crops and Products*, 37, 479-485. <https://doi.org/10.1016/j.indcrop.2011.07.024>
21. Čakar, J., Parić, A., **Maksimović, M.**, & Bajrović, K. (2012). Antioxidative and antitumor properties of *in vitro* cultivated broccoli (*Brassica oleracea* var. *italica*), *Pharmaceutical Biology*, 50(2), 175-181. <https://doi.org/10.3109/13880209.2011.586040>
22. Čavar, S., & **Maksimovic, M.** (2012). Antioxidant Activity of Essential Oil and Aqueous Extract of *Pelargonium graveolens* L'Her. *Food Control*, 23, 263-267. <https://doi.org/10.1016/j.foodcont.2011.07.031>
23. Otajagić, S., Pinić Dž., Čavar S., Vidic, D., & **Maksimović, M.** (2012). Total phenolic content and antioxidant activity of ethanolic extracts of *Aesculus hippocastanum* L., *Glasnik hemičara i tehnologa Bosne i Hercegovine-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 38, 35-39. <http://www.pmf.unsa.ba/hemija/glasnik/files/Issue%2038/38%20-%207-Otajagic.pdf>
24. Čakar, J., Parić, A., **Maksimović, M.**, & Bajrović, K. (2012). Effect of Plant Nutrients on Antiradical Activity of In Vitro Cultivated Broccoli (*Brassica oleracea* L. var. *italica* Plenck.), *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 39, 35-38. [http://pmf.unsa.ba/hemija/glasnik/files/Issue%2039/39\\_8\\_Paric.pdf](http://pmf.unsa.ba/hemija/glasnik/files/Issue%2039/39_8_Paric.pdf)
25. Čakar, J., Parić, A., Vidic, D., Haverić, A., Haverić, S., **Maksimović, M.**, & Bajrović, K. (2011). Antioxidant and antiproliferative activities of *Helleborus odoratus* Waldst. & Kit, *H. multifidus* Vis. and *H. hercegovinus* Martinis. *Natural Product Research*, 25(20), 1969-74. <https://doi.org/10.1080/14786419.2010.541872>
26. Haveric, S., Haveric, A., Bajrovic, K., Galic, B., & **Maksimovic, M.** (2011). Effects of dipotassium trioxohydroxytetrafluorotriborate ( $K_2[B_3O_3F_4OH]$ ) on genetic material and inhibition of cell division in human cell cultures, *Drug and Chemical Toxicology*, 34, 250-254. <https://doi.org/10.3109/01480545.2010.507207>
27. Čavar, S., **Maksimović, M.** & Šolić, M. E. (2011). Biological Activity and Essential Oil Analysis of Endemic *Centaurea gloriosa* var. *multiflora* Radic, *Analytical Chemistry Letters*, 1(2), 173-180. <https://doi.org/10.1080/22297928.2011.10648216>
28. Vidic, D., Čavar, S., Šolić, M. E., & **Maksimović, M.** (2010). Volatile Constituents of Two Rare Subspecies of *Thymus praecox*, *Natural Product Communications*, 5, 1123-1126. <https://doi.org/10.1177/1934578X1000500730>
29. Vidic, D., **Maksimović, M.**, Čavar, S., & Siljak-Yakovlev S. (2010). Influence of the continental climatic condition on the essential oil composition of *Salvia brachyodon* Vandas transferred from Adriatic Coast, *Chemistry & Biodiversity*, 7, 1208-1216. <https://doi.org/10.1002/cbdv.200900126>

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32. Čavar, S., Kovač, F., & Maksimović, M. (2009). Synthesis and antioxidant activity of selected 4-methylcoumarins, *Food Chemistry*, 117, 135-142. <https://doi.org/10.1016/j.foodchem.2009.03.087>
33. Čavar, S., Maksimović, M., & Vidic, D. (2009). The Essential Oil of *Thymus aureopunctatus* (Beck) K. Malý, *Natural Product Communications*, 4, 415-420. <https://doi.org/10.1177/1934578X0900400320>
34. Vidic, D., Maksimović, M., Čavar, S., & Šolić, M. E. (2009). Comparison of Essential Oil Profiles of *Satureja montana* L. and Endemic *Satureja visianii* Šličić, *Journal of Essential Oils-Bearing Plants*, 12, 273-281. <https://doi.org/10.1080/0972060X.2009.10643720>
35. Čavar, S., Vidic, D., & Maksimović, M. (2009). GC-MS Analiza volatilnih konstituenata *Thymus moesiacus* Velen. *Glasnik hemičara, tehnologa i ekologa Republike Srpske*, 2, 27-29. <https://glasnik.tf.unibl.org/bs/gc-ms-analiza-volatilnih-konstituenata-thymus-moesiacus-velen/>
36. Vidic, D., Čavar, S., & Maksimović, M. (2009). Hlapivi konstituenti dviju biljnih vrsta roda *Acinos*, *Radovi Hrvatskog Društva za znanost i umjetnost*, XI, 159-166.
37. Čavar, S., Vidic, D., Topčagić, A., Šolić, M. E., & Maksimović, M. (2009). Kemijski sastav i antioksidacijska aktivnost eteričnog ulja biljne vrste *Salvia sclarea* L., *Radovi Hrvatskog Društva za znanost i umjetnost*, XI, 167-175.
38. Čavar, S., Vidic, D., & Maksimović, M. (2008). Fitokemijska karakterizacija biljne vrste *Artemisia annua* L., *Radovi Hrvatskog Društva za znanost i umjetnost*, X, 157-162.
39. Čavar, S., Vidic, D., & Maksimović, M. (2008). Analiza hlapivih komponenata iz biljnog materijala *Salvia officinalis* L. headspace tehnikom, *Radovi Hrvatskog Društva za znanost i umjetnost*, X, 163-168.
40. Čavar, S., Maksimović, M., Šolić, M. E., Jerković-Mujkić, A., & Bešta, R. (2008). Chemical composition and antioxidant and antimicrobial activity of two *Satureja* essential oils, *Food Chemistry*, 111, 648-653. <https://doi.org/10.1016/j.foodchem.2008.04.033>
41. Maksimović, M., Vidic, D., Miloš, M., Šolić, M. E., Abadžić, S., & Sijak-Yakovlev, S. (2007). Effect of the environmental conditions on essential oil profile in two Dinaric *Salvia* species: *S. brachyodon* Vandas and *S. officinalis* L., *Biochemical Systematics and Ecology*, 35, 473-478. <https://doi.org/10.1016/j.bse.2007.02.005>
42. Jukic, M., Politeo, O., Maksimović, M., Milos, M., & Milos, M. (2007). *In vitro* acetylcholinesterase inhibitory properties of thymol, carvacrol and their derivatives thymoquinone and thymohydroquinone, *Phytotherapy Research*, 21, 259-261. <https://doi.org/10.1002/ptr.2063>
43. Maric, S., Maksimović, M., & Milos, M. (2006). The Impact of the Locality Altitudes and Stages of Development on the Volatile Constituents of *Salvia officinalis* L. from Bosnia and Herzegovina, *Journal of Essential Oil Research*, 18, 178-180. <https://doi.org/10.1080/10412905.2006.9699060>
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45. Maksimović, M., Nikolin, A., & Nikolin, B. (1990). Mass Spectral Characteristics of Some 3,5-Disubstituted 4-Isoxazolecarboxylic Acids, *Rapid Communications in Mass Spectrometry*, 4(12), 513-514. <https://doi.org/10.1002/rcm.1290041209>
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48. Dursun, K., Maksimović, M., Prskalo, M., & Petronijević, B. (1977-8). Određivanje slobodnih aminokiselina imele (*Viscum album*) i njenog domaćina kruške, *Glasnik hemičara i tehnologa Bosne i Hercegovine-Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 25, 25-7. <http://hemija.pmf.unsa.ba/glasnik/files/Arhiva/25.pdf>

#### SCIENTIFIC PAPERS- Proceedings at scientific conferences

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50. Čavar, S., Čopra-Janićijević, A., Muradić, S., Maksimović, M., Sofić, E. (2010). Chemical composition of essential oil of *Allium ursinum* L., 6<sup>th</sup> Conference on Aromatic and Medicinal Plants of Southeast European Countries, 6<sup>th</sup> CMAPSEEC, Antalya, Turkey, 1057-1064. ISBN: 978-605-61261-0-9
51. Čavar, S., Vidic, D., Topčagić, A., Šolić, M. E., Maksimović, M. (2010). Chemical composition and antioxidant activity of *Teucrium arduini* L., 6<sup>th</sup> Conference on Aromatic and Medicinal Plants of Southeast European Countries, 6<sup>th</sup> CMAPSEEC, Antalya, Turkey, 1065-1076. ISBN: 978-605-61261-0-9
52. Čavar, S., Vidic, D., Maksimović, M. (2008) GC-MS Analiza volatilnih konstituenata *Thymus moesiacus* Velen. VIII Savjetovanje hemičara i tehnologa RS, Zbornik radova, 269-273. ISBN: 978-99938-54-27-2

#### SCIENTIFIC PAPER in a book with an international review

53. Maksimović, M. (2005). Are There Opportunities for Cooperative University-Industry Projects in Our Traditional Research? in KNOWLEDGE AND WEALTH CREATION, Sourcebook on Inovative Capacity Building at Universities, Selected Examples in Europe, UNESCO-ICCS, Ljubljana, Slovenia, p. 151-165. ISBN: 86-81449-15-X

#### ABSTRACTS of scientific papers in journals covered by Web of Science-SCI Expanded

54. Sofić, E., Čopra-Janićijević, A., Maksimović, M., Tahirović, I., Klepo, L., Topčagić, A., Huseinović, S., Vidic, D., Čavar, S., Kroyer, G. (2011) Determination of Hypericin in St. John's Worth (*Hypericum perforatum* L.) extracts using HPLC-ED, 59<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Antalya, Turkey, 4.-9. September 2011, *Planta Medica*, 77(12), SL51. <https://doi.org/10.1055/s-0031-1282174>
55. Vidic, D., Čavar, S., Maksimović, M. (2010) Antioxidant activity of two *Satureja* species, 7<sup>th</sup> Tannin Conference (Presymposium) and 58<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Berlin, Germany, 29<sup>th</sup> August – 2<sup>nd</sup> September 2010, *Planta Medica*, 76(12), P137. <https://doi.org/10.1055/s-0030-1264435>
56. Čavar, S., Vidic, D., Maksimović, M. (2010) Chemical composition and antioxidant activity of essential oil and aqueous extract of *Pelargonium graveolens* L'Her, 7<sup>th</sup> Tannin Conference (Presymposium) and 58<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Berlin, Germany, 29<sup>th</sup> August – 2<sup>nd</sup> September 2010, *Planta Medica*, 76(12), P132. <https://doi.org/10.1055/s-0030-1264430>

57. Čavar, S., Vidic, D., **Maksimović, M.** (2009) Essential Oil Profile of *Thymus jankae* Celak. from Bosnia, 57<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Geneva, Switzerland, August 16–20, 2009, *Planta Medica*, 75(09), PB10. <https://doi.org/10.1055/s-0029-1234422>
58. Vidic, D., Čavar, S., **Maksimović, M.** (2008) Chemical Constituents of the Headspace and Essential oil of *Thymus balcanus* Borbás, 7<sup>th</sup> Joint Meeting of GA, AFERP, ASP, PSE & SIF, Athens, Greece, August 3–8, 2008, *Planta Medica*, 74(09), P111. <https://doi.org/10.1055/s-0028-1084919>
59. Čavar, S., Vidic, D., **Maksimović, M.** (2008) Volatile Constituents of *Thymus moesiacus* Velen. from Bosnia, 74(09), P110, 7<sup>th</sup> Joint Meeting of GA, AFERP, ASP, PSE & SIF, Athens, Greece, August 3–8, 2008, *Planta Medica*, 74(09), P110. <https://doi.org/10.1055/s-0028-1084918>
60. Čavar, S., Maksimović, M., **Vidic, D.**, Parić, A. (2006) Antioxidant and antibacterial activity of *Artemisia annua* L. plant extracts and essential oil, 31<sup>st</sup> FEBS Congress, Istanbul, Turkey, June 24–29, 2006, *FEBS Journal*, 273, Supplement 1, 298. <https://doi.org/10.1111/j.1742-4658.2006.05277.x>

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