

Dr. Jelena Popović-Djordjević

Position: Full professor, University of Belgrade-Faculty of Agriculture

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Field of Expertise:

Chemistry of natural products, Food chemistry and safety, Environmental chemistry, Biological activity of natural and synthetic compounds, Instrumental analytical methods (Raman spectroscopy, FTIR, IR, NMR, GC)

Education:

PhD in Chemistry (Organic) - University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

Master degree in Chemistry (Organic) - University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

Bachelor in Chemistry (Applied) - University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

Research Expertise:

Extensive research in chemistry of natural products (wild growing plants, vegetables, fruits, aromatic plants and fungi), phytochemistry, food chemistry and safety, environmental chemistry, Application of instrumental analytical methods in analysis and elucidation of chemical composition of natural products.

Relevant Projects:

14 national scientific projects

Basileus Erasmus Mundus External Cooperation-academic staff exchange programme, Ghent University, Faculty of Bioscience Engineering, Ghent, Belgium (2009)

Erasmus+ K107, University of Belgrade, Faculty of Agriculture (2021)

Erasmus+ K107, University of Belgrade, Faculty of Agriculture (2023)

Pilot program "Synergy"- joint project of scientific-research community and business sector (2020-2024)

Short-term exchange project "Active ingredients from Plant Resources in Serbia and China against the metabolic syndrome: discovery of small molecule GLP-1R agonists" (2024)

Publications

Over 190 publications including 80 papers in the leading international and national peer-review journals (*JCR-SCI*), 9 book chapters, and over 100 papers on the international and national conferences.

Citations – >1350; **Hirsh index** (*h*-index) - 22 (SCOPUS)

ORCID: <https://orcid.org/0000-0003-4057-3826>

Scopus Author ID: 36601201000

Sci Profiles 146221

Professional experience:

Thesis supervision: 3 PhD theses, 3 Specialist study theses, 2 Bachelor final reports

Advisor committee member: 5 PhD theses (1 PhD thesis in University of Banja Luka, Bosnia and Herzegovina, 2 PhD at Urmia University, Urmia, Iran), 15 master theses (8 master theses at Urmia University, Urmia, Iran), 2 bachelor final reports

Skills:

Associate editor and editorial board member in several international journals (Springer Nature, Wiley, Codon, MDPI, Tubitak & Lyceum Publisher)

Guest editor for 12 Special and Thematic issues in 8 international journals (published by: Springer, MDPI, Tech Science Press, Frontiers & Bentham Science)

Invited lectures delivered in 5 international symposiums

Chairman and co-chairman in 3 international scientific conference (2022, 2024 & 2025)

Regular reviewer in the international scientific journals - SCI (50+ journals)

Reviewer for the international project proposals

Achievements:

World's Top 2% Scientist for 2024

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>

Annual Award 2025 (for the best scientific publication in 2024 at the Faculty of Agriculture - University of Belgrade)

Annual Award 2024 (for the best scientific publication in 2023 at the Faculty of Agriculture - University of Belgrade)

Outstanding Contribution Award at 5th International Symposium on Phytochemicals in Medicine and Food (5-ISPMPF), Nanchang, China, August 25-30, 2021

<https://doi.org/10.53365/efood.k/143517>

Best poster at the 9th symposium with international participation "Innovations in agricultural and vegetable production", October 17-18, 2019

Memberships:

Phytochemical Society of Europe (PSE)

International Association of Dietetic Nutrition and Safety (IADNS) – Observer

Serbian Chemical Society

Serbian Water Pollution Control Society

Selected Publications:

Vasić D., Katanić Stanković J.S., Urošević T., Kozarski M., Naumovski N., Khan H., **Popović-Djordjević J.** (2024) Insight into bioactive compounds, antioxidant and anti-diabetic properties of rosehip (*Rosa canina* L.)-based tisanes with addition of hibiscus flowers (*Hibiscus sabdariffa* L.) and saffron (*Crocus sativus* L.). *Beverages*, 10(1), 1. <https://doi.org/10.3390/beverages10010001>

Harriden B., Speer K., Sergi D., Gill C., **Popovic-Djordevic J.**, McKune A., Naumovski N. (2024) The phytochemical composition and unexplored potential of Australian native plants for application in physical activity-related muscle recovery and inflammation: a literature review. *Food & Function*, <https://doi.org/10.1039/D4FO02067G>

- Campos M.T.C., Maia L.F., **Popović-Djordjević J.**, Edwards H.G.M., de Oliveira L.F.C. (2024) Ripening process in exocarps of scarlet eggplant (*Solanum aethiopicum*) and banana (*Musa* spp.) investigated by Raman spectroscopy. *Food Chemistry: Molecular Sciences*, 8, 100204. <https://doi.org/10.1016/j.fochms.2024.100204>
- Shirzad H, Siavash Moghaddam S, Rahimi A, Rezapour S, Xiao J, **Popović-Djordjević J.** (2024) Combined effect of biological and organic fertilizers on agrobiochemical traits of corn (*Zea mays* L.) under wastewater irrigation. *Plants*, 13(10), 1331. <https://doi.org/10.3390/plants13101331>
- Popović-Djordjević J.**, Kostić Ž. A., Kamiloglu S., Mićanović N., Tomas M., Capanoglu E. (2023) Chemical composition, nutritional and health related properties of medlar (*Mespilus germanica* L.): From medieval glory to underutilized fruit. *Phytochemistry Reviews*, 22, 1663–1690. <https://doi.org/10.1007/s11101-023-09883-y>
- Popović-Djordjević J.**, Špirović-Trifunović B., Pećinar I., de Oliveira L.F.C., Krstić Đ., Mihajlović D., Fotirić Akšić M., Simal-Gandara J. (2023) Fatty acids in seed oil of wild and cultivated rosehip (*Rosa canina* L.) from different locations in Serbia. *Industrial Crops & Products*, 191, 115797. <https://doi.org/10.1016/j.indcrop.2022.115797>
- Marković, G., Kostić, A.Ž., Pantelić, N.Đ. Maletić, R., Štrbački, J., Cakić, J., Kaluđerović, L., Dojčinović, B., Giuffrè, M.A., **Popović-Djordjević JB.** (2023) Spatial distribution of major and trace elements in artificial lakes in Serbia: health risk indices and suitability of water for drinking and irrigation purposes. *Environmental Monitoring and Assessment*, 195, No. 1237. <https://doi.org/10.1007/s10661-023-11740-6>
- Vuković S., **Popović-Djordjević J.B.**, Kostić A.Ž., Pantelić N.D., Srećković N., Akram M., Laila U., Katanić Stanković J.S. (2023) *Allium* species in the Balkan region—major metabolites, antioxidant and antimicrobial properties. *Horticulturae*, 9(3),408. <https://doi.org/10.3390/horticulturae9030408>
- Popović-Djordjević B.J.**, Kostić Ž.A., Rajković B.M., Miljković I., Krstić Đ., Caruso G., Siavash-Moghaddam S., Brčeski I. (2022) Organically vs. conventionally grown vegetables: multi-elemental analysis and nutritional evaluation. *Biological Trace Element Research*, 200, 426–436. <https://doi.org/10.1007/s12011-021-02639-9>
- Mohammadi S., Pourakbar L., Siavash-Moghaddam S., **Popović-Djordjević J.** (2021) The effect of EDTA and citric acid on biochemical processes and changes in phenolic compounds profile of okra (*Abelmoschus esculentus* L.) under mercury stress. *Ecotoxicology and Environmental Safety*, 208, 111607. <https://doi.org/10.1016/j.ecoenv.2020.111607>