

Jelena Vladić – Spisak publikacija / List of publications

Book

1. Vidović S.; Vladić J. (2017). Chemistry and technology of dietary supplements-additional book. Publisher: Faculty of Technology Novi Sad, ISBN 978-86-6253-074-5.

Scientific articles

2. Gavarić, A., Vidović, S., Aladić, K., Jokić, Vladić J.* (2021). Supercritical CO₂ extraction of *Marrubium vulgare*: Intensification of marrubiin RSC Advances, 11, 9067-9075. <https://doi.org/10.1039/D0RA10253A>.
3. Vidović, S., Tomšik, A., Vladić, J., Jokić, Aladić, K., Pastor, K., Jerković, I. (2021). Supercritical Carbon Dioxide Extraction of *Allium ursinum* L.: Impact of Temperature and Pressure on the Extracts Chemical Profile. Chemistry and Biodiversity, <https://doi.org/10.1002/cbdv.202100058>.
4. Vladić, J., Jakovljević, M., Molnar, M., Vidović, S., Tomić, M., Drinić, Z., Jokić, S. (2020). Valorization of yarrow (*Achillea millefolium*) by-product through application of subcritical water extraction, *Molecules*, 25(8), 1878, <https://doi.org/10.3390/molecules25081878>.
5. Vladoj, J., Cebovic, T., Vidovic, S., Jokic, S. (2020). Evaluation of anticancer activity of *Satureja montana* supercritical and spray-dried extracts on Ehrlich's ascites carcinoma bearing mice. *Plants*, 9, 1532.
6. Vladoj, J., Jankovic, T., Zivkovic, J., Tomic M., Zdunic G., Savikin, K., Vidović S. (2020). Comparative study of subcritical water and microwave-assisted extraction techniques impact on the phenolic compounds and 5-hydroxymethylfurfural content in pomegranate peel. *Plant Foods for Human Nutrition*, <https://doi.org/10.1007/s11130-020-00848-6>.
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9. Juárez, J. M., Vladoj, J., Rodríguez, S. B., & Vidovic, S. (2020). Sequential valorisation of microalgae biomass grown in pig manure treatment photobioreactors. *Algal Research*, 50, 101972.
10. Čakarević J., Vidović S., Vladić J., Gavarić A., Jokić S., Pavlović N., Blažić M., Popović L. (2019). Production of bio-functional protein through revalorization of apricot kernel cake. *Foods*, 8, 318. <https://doi.org/10.3390/foods8080318>
11. Ferreira A., Ribeiro B., Ferreira A., Tavares M., Vladoj J., Vidovic S., Cvetkovic D., Melkonyan L., Avetisova G., Goginyan V., Gouveia L. (2019). *Scenedesmus obliquus* microalga-based biorefinery - from brewery effluent to bioactive compounds, biofuels

- and biofertilizers – aiming a circular bioeconomy. *Biofuels, Bioproducts and Biorefining*, <https://doi.org/10.1002/bbb.2032>.
12. Jerković I., Molnar, M., Vidović S., Vladić J., Jokić S. (2017). Supercritical CO₂ Extraction of *Lavandula angustifolia* Mill. flowers: Optimization of oxygenated monoterpenes, coumarin and herniarin content. *Phytochemical Analysis*, doi: 10.1002/pca.2705.
 13. Elgndi M.A., Filip S., Pavlić B., Vladić J., Žižak Ž., Zeković Z. Stanojković T. (2017). Antioxidative and cytotoxic activity of essential oils and extracts of *Satureja montana* L., *Coriandrum sativum* L. and *Osimum basilicum* L. obtained by supercritical fluid extraction. *Journal of Supercritical Fluids*, 128, 128-137.
 14. Tomšik A., Pavlić B., Vladić J., Cindrić M., Jovanov P., Sakač M., Mandić A., Vidović S. (2017). Subcritical water extraction of wild garlic (*Allium ursinum* L.) and process optimization by response surface methodology. *Journal of Supercritical Fluids*, 128, 79-88.
 15. Vladić J., Canli O., Pavlić B., Zeković Z., Vidović S., Kaplan M. (2017). Optimization of *Satureja montana* subcritical water extraction process and chemical characterization of volatile fraction of extracts. *Journal of Supercritical Fluids*, 120, 86-94.
 16. Naffati A., Vladić J., Pavlić B., Radosavljević R., Gavarić A., Vidović S. (2017). Recycling of filter tea industry by-products: Application of subcritical water extraction for recovery of bioactive compounds from *A. uva-ursi* herbal dust. *Journal of Supercritical Fluids*, 121, 1-9.
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 22. Zeković Z., Kaplan M., Pavlić B., Olgun E. O., Vladić J., Canli O., Vidović S. (2016). Chemical characterization of polyphenols and volatile fraction of coriander (*Coriandrum sativum* L.) extracts obtained by subcritical water extraction. *Industrial Crops and Products*, 87, 54-63.
 23. Pavlić B., Vidović S., Vladić J., Radosavljević R., Cindrić M., Zeković Z. (2016). Subcritical water extraction of sage (*Salvia officinalis* L.) by-products-Process optimization by response surface methodology. *Journal of Supercritical Fluids*, 116, 36-45.

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26. Aladić K., Jarni K., Barbir T., Vidović S., Vladić J., Bilić M., Jokić S. (2015). Supercritical CO₂ extraction of hemp (*Cannabis sativa* L.) seed oil. *Industrial Crops and Products*, 76, 472-478.
27. Ramić M., Vidović S., Zeković Z., Vladić J., Cvejic A., Pavlić B. (2015). Modeling and optimization of ultrasound-assisted extraction of polyphenolic compounds from *Aronia melanocarpa* by-products from filter-tea factory. *Ultrasonics Sonochemistry*, 23, 360-368.
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29. Vidović S., Zeković Z., Marošanić B., Todorović M. P., Vladić J. (2014). Influence of pre-treatments on yield, chemical composition and antioxidant activity of *Satureja montana* extracts obtained by supercritical carbon dioxide. *Journal of Supercritical Fluids*, 95, 468-473.
30. Vidović S., Vladić J., Vaštag Ž., Zeković Z., Popović L. (2014). Maltodextrin as a carrier of health benefit compounds in *Satureja montana* dry powder extract obtained by spray drying technique. *Powder Technology*, 258, 209-215.
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36. Naffati A., Vladić J., Pavlić B., Vidović S. (2017). Bio-refining of filter tea factory by-products: classical and ultrasound-assisted extraction of bioactive compounds from wild apple fruit dust. *Journal of Food Process Engineering*, 40(6), e12572.

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62. Samardžić N., Konstantinović B., Popov M., Blagojević M., Pavlić B., Vladić J. Allelopathic effect of *Xanthium strumarium* L. and *Abuthilon theophrasti* Med. extracts on germination of maize and soybean seed, 23rd International Symposium on Analytical and Environmental Problems, Szeged, Hungary, October 2017, Book of abstracts, p. 306-309.

Chapters

1. Banožić M., Vidović S., Vladić J., Jokić S. (2020) Chapter 5. Overview on the Application of Supercritical CO₂ Extraction of Active Compounds from Tobacco and Tobacco Waste, Chapter 9, In: Supercritical Carbon Dioxide: Functions and Application. Editor: Evie P. Hayden, Nova Science Publisher, ISBN: 978-1-53617-404-5. p. 319-369. <https://novapublishers.com/shop/supercritical-carbon-dioxide-functions-and-applications>.
2. Vidović S., Vladić J., Nastić N., Jokić S. (2020). Subcritical and supercritical extraction in food by-product and food waste valorization In: Super and subcritical fluid processing, Innovative Food Processing Technologies – A Comprehensive Review. Editors: K. Muthukumarappan and K. Knoerzer, Elsevier, USA, ISBN: 9780128157817.
3. Vidović S., Tepić Horecki A., Vladić J., Šumić Z., Gavarić A., Vakula A. (2019). By products of apple fruit processing: importance, composition and applications. In: Valorization of fruit processing by-products. Editors: Charis Galanakis, Elsevier, Paperback ISBN: 9780128171066, eBook ISBN: 9780128173732
4. Ferreira A., Reis A., Vidovic S., Vladic J., Gkelis S., Melkonyan L., Avetisova G., Congestri R., Acién G., Muñoz R., Collet P., Gouveia L. (2019). Combining wastewater treatment with biofuel and/bio-product production through microalgae in the frame of biorefinery. In: Grand Challenges in Biology and Biotechnology, Editors: Hallmann Armin, Rampelotto Pabulo H. Springer. ISBN 978-3-030-25233-5.
5. Vladić J., Vidović S., Aćimović M., Gavarić A., Jokić S. (2017). Chapter 2. *Satureja montana*: Cultivation, Production and Uses, In: Medicinal Plants: Production, Cultivation and Uses, Editors: Aubert Matthias and Nicolas Laisné. Nova Science Publisher, pp. 27-58. ISBN: 978-1-53612-729-4.
6. Vidović S., Šavikin K., Aćimović M., Vladić J., Čujjić N., Gavarić A., Janković T. (2017). Chapter 3. Insight to the Current State and Challenges in *Aronia melanocarpa* Cultivation, Phytochemicals, Potential and Applications, In: Medicinal Plants: Production, Cultivation and Uses, Editors: Aubert Matthias and Nicolas Laisné. Nova Science Publisher, pp. 59-84. ISBN: 978-1-53612-729-4.
7. Gavarić A., Jokić S., Molnar M., Vidović S., Vladić J., Acimović M. (2017). Chapter 4. Helichrysum: The Current State of Cultivation, Production and Uses, Editors: Aubert Matthias and Nicolas Laisné. Nova Science Publisher, pp. 85-106. ISBN: 978-1-53612-729-4.

Invited presentation

1. Banožić M., Aladić K., Banjari I., Šafranko S., Pavlović N., Vladić J., Vidović S., Jokić S. Application of innovative techniques of the extraction of bioactive compounds from by-products of plant origin. International Conference Food Industry By-Products, Kopacki rt, Croatia, June 2020, Book of Abstracts, p. 5-6.

Conference proceedings

1. Simić S., Vladić J. Overview: Supercritical carbon dioxide versus subcritical water extraction of bioactive compounds from herbal material. III Symposium of Young

- Researchers on Pharmaceutical Technology, Biotechnology and Regulatory Science, 20-22 January, 2021, Szeged, Hungary, Book of Abstracts p. 60.
2. Vladić J., Ferreira A., Vidović S., Cvetković D., Gouveia L. Refining microalgae biomass obtained through wastewater treatment with subcritical water extraction. EUALGAE Final Conference - European Recent Advances in the Microalgae Field, February 2019, Madrid, Spain, Book of Abstract.
 3. Mutavski Z., Sulejmanović M., Krivošija S., Vladić J., Vidović S. Application of apple cider vinegar as new alternative and functional solvent for extraction of bioactive compounds from black elderberry fruit, 1st Greenering International Conference, 15-17 February 2021, Lisbon, Portugal, Book of Abstract, 41.
 4. Vidović S., Nastić N., Vasić A., Vladić J., Gavarić A., Jokić S., Aladić K. Valorization of *Rosa canina* by-products through application of supercritical fluid extraction. 1st Greenering International Conference, 15-17 February 2021, Lisbon, Portugal, Book of Abstract, 121.
 5. Vladić J., Molnar Jazić J., Gouveia L., Maletić S., Ferreira A., Vidović S, Agbaba J. Application of subcritical water extraction for processing microalgae biomass from wastewater treatment. 1st Greenering International Conference, 15-17 February 2021, Lisbon, Portugal, Book of Abstract, 120.
 6. Vladić J., Le Tan H., Fauster T., Gerhart T., Jaeger H. Enhancement of the subcritical water extraction of curcuminoids from turmeric by pulsed electric fields, 1st Greenering International Conference, 15-17 February 2021, Lisbon, Portugal, Book of Abstract, 35.
 7. Šarčević D., Dragodan A., Višnjić S., Aćimović M., Vladić J. Spray drying of industrial hemp with maltodextrin and gum arabic. 26th International Symposium on Analytical and Environmental Problems (ISAEP 2020), 23-24 November 2020, Szeged, Hungary, Book of Abstract, 349-350. – Min. RS-projekat
 8. Mutavski Z., Vladić J., Vidović S., Aćimović M. High pressure and ultrasound-assisted extraction of bioactive compounds from *Santolina chamaecyparissus*. 26th International Symposium on Analytical and Environmental Problems (ISAEP 2020), 23-24 November 2020, Szeged, Hungary, Book of Abstract, 249-250.
 9. Simić S., Vladić J., Fauster T., Le Tan H., Gerhart T. Jaeger H. *Curcuma longa* L: Pulsed electric field pretreatment followed by subcritical water extraction with addition of acidic modifier. 26th International Symposium on Analytical and Environmental Problems (ISAEP 2020), 23-24 November 2020, Szeged, Hungary, Book of Abstract, 315-316.
 10. Vladić J., Simić S., Fauster T., Le Tan H., Gerhart T., Jaeger H. Pulsed electric field as a pretreatment for intensification of subcritical water extraction of polyphenolic components of *Curcuma longa*, International Scientific Conference: Harmonization of approaches to pharmaceutical development, 25 November, 2020 Moscow, Russia, Book of Abstract, 116-117.
 11. Višnjić S., Vladić J., Šarčević D., Dragodan A., Vidović S. Exploitation of onion waste for obtaining high value products using spray drying, International Scientific Conference: Harmonization of approaches to pharmaceutical development, 25 November, 2020 Moscow, Russia, 2020, Book of Abstract, 114-116.
 12. Jovanović Galović A., Kojić V., Jakimov D., Jojić N., Mrkonjić Z., Ilić M., Gigov S., Vidović S., Vladić J., Zloh M., Jovanović Lješković N. Molecular effects of plant extracts: Three immunochemical methods in two examples, Conference of the

- Serbian Biochemical Society with international participation, Beograd, 2019, Book of Abstract, p. 107.
13. Gavarić A., Vidović S., Vladić J., Ambrus R. Characterization of white horehound dry extracts obtained using spray drying. International Scientific Conference: Harmonization of approaches to pharmaceutical development, 14 November, 2018 Moscow, Russia, Book of Abstract, p. 57-58.
 14. Drinić Z., Vladić J., Vidović S., Petrović A., Kiprović B. Subcritical water extraction of antioxidants from aerial parts of hemp (*Cannabis sativa* L.). International Scientific Conference: Harmonization of approaches to pharmaceutical development, 14 November, 2018 Moscow, Russia, Book of Abstract, p. 18.
 15. Vladić J., Liptak F., Mutavski Z., Ambrus R., Bartos C., Kiss T., Vidović S. Production of wine powder using spray drying technique. International Scientific Conference: Harmonization of approaches to pharmaceutical development, 28 November, 2018 Moscow, Russia, Book of Abstract, p.58-59.
 16. Vidović S., Ambrus R., Vakula A., Bartos C., Šumić Z., Vladić J. Application of different drying techniques on pumpkin (*Cucurbita pepo*): micrometric and structural characterization, With Food to Health, October, 2019 Osijek, Croatia, Book of Abstract, p. 84.
 17. Vladić J., Vidović S., Šavikin K., Živković J., Zdunić G., Janković T. Microwave-assisted extraction of bioactive compounds from pomegranate peel. With Food to Health, October, 2019, Osijek, Croatia, Book of Abstract, p. 85.
 18. Vladić J., Vidović S., Flanjak I., Škerget M., Jokić S. Recycling of food industry by-products: production of cocoa bean shell powder using spray drying technique. With Food to Health, October, Osijek, 2019, Croatia, Book of Abstract, p. 154.
 19. Jojić N., Jovanović Galović A., Jovanović Lješković N., Gigov S., Ilić M., Vidović S., Vladić J., Kojić V., Jakimov D. Potential for use of vine shoots extract in pharmaceutical industry, 1st International Conference on Advanced Production and Processing, October 10-11, 2019, Novi Sad, Serbia, Book of Abstract, p. 192.
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National technical solution

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