

List of papers

I. Papers published in ISI journals:

1. A multi-method approach for impact assessment of some heavy metals on *Lactuca sativa* L., **M.L. Soran**, A.N. Sîrb, I. Lung, O. Opreș, O. Culicov, A. Stegarescu, P. Nekhoroshkov, D.M. Gligor, *Molecules*, **2023**, 28, 759.
2. Application of CNT-COOH/MnO₂/Fe₃O₄ Nanocomposite for the Removal of Cymoxanil from Aqueous Solution: Isotherm and Kinetic Studies, I. Lung, **M.L. Soran***, A. Stegarescu, O. Opreș, *Analytical Letters*, 2023, 56(2), 216-230, doi: [10.1080/00032719.2022.2043888](https://doi.org/10.1080/00032719.2022.2043888).
3. Testing MWCNT-COOH/Fe₃O₄ nanocomposite for the removal of ampicillin from synthetic aqueous solutions, **Soran M.L.**, Lung I., Stegarescu A., Opreș O., *Studia Universitatis Babeș-Bolyai Chemia*, **2022**, 4, 141-149.
4. The antibacterial properties of nanocomposites based on carbon nanotubes and metal oxides functionalized with azithromycin and ciprofloxacin, Stegarescu A., Lung I., Ciorîță A., Kacso Irina, Opreș O., **Soran M.L.***, Soran A., *Nanomaterials*, **2022**, 12, 4115
5. Synthesis and characterization of MWCNT-COOH/Fe₃O₄ and CNT-COOH/Fe₃O₄/NiO nanocomposites: Assessment of adsorption and photocatalytic performance, A. Stegarescu, H. Cabrera, H. Budasheva, **M.L. Soran***, I. Lung, F. Limosani, D. Korte, M. Amati, G. Borodi, I. Kacso, O. Opreș, M. Dan, S. Bellucci, *Nanomaterials*, 2022, 12, 3008
6. Efficient extraction of total polyphenols from apple and investigation of its SPF properties, O. Opreș, I. Lung, **M.L. Soran**, A. Stegarescu, T. Cesco, A. Ghendov-Mosanu, P. Podea, R. Sturza, *Molecules*, 2022, 27, 1679.
7. Chemometric optimization of biologically active compounds extraction from grape marc: Composition and antimicrobial activity, A. Ghendov-Mosanu, D. Cojocari, G. Balan, A. Patras, I. Lung, **M.L. Soran**, O. Opreș, E. Cristea, R. Sturza, *Molecules*, 2022, 27, 1610.
8. The Effect of TiO₂ Nanoparticles on the Composition and Ultrastructure of Wheat, M.L. Soran, I. Lung, O. Opreș, O. Culicov, A. Ciorîță, A. Stegarescu, I. Zinicovscaia, N. Yushin, K. Vergel, I. Kacso, G. Borodi, *Nanomaterials* 2021, 11(12), 3413.
9. Antimicrobial Effects of Basil, Summer Savory and Tarragon Lyophilized Extracts in Cold Storage Sausages, A. Macari, R. Sturza, I. Lung, **M.L. Soran**, O. Opreș, G. Balan, A. Ghendov-Mosanu, D.C. Vodnar, D. Cojocari, *Molecules*, 2021, 26(21), 6678.
10. Devrinol and triadimefon removal from aqueous solutions using CNT-COOH/MnO₂/Fe₃O₄ nanocomposite, I. Lung, **M.L. Soran***, A. Stegarescu, O. Opreș, *Journal of the Iranian Chemical Society*, 2022, 19, 2031-2039.
11. Content of Carotenoids, Violaxanthin and Neoxanthin in Leaves of *Triticum aestivum* Exposed to Persistent Environmental Pollutants, O. Opreș, F. Copaciu, **M.L. Soran**, Ü. Niinemets, L. Copolovici, *Molecules*, 2021, 26, 4448.
12. The Impact Assessment of CuO Nanoparticles on the Composition and Ultrastructure of *Triticum aestivum* L., I. Lung, O. Opreș, **M.L. Soran**, O. Culicov, A. Ciorîță, A. Stegarescu, I. Zinicovscaia, N. Yushin, K. Vergel, I. Kacso, G. Borodi, M. Pârnu, *International Journal of Environmental Research and Public Health*, 2021, 18(13), 6739.
13. Biotransformation of Non-steroidal Anti-inflammatory Drugs Induces Ultrastructural Modifications in Green Leafy Vegetables, Ocsana Opreș, **Maria-Loredana Soran***, Ildikó Lung, Alexandra Ciorîță, Lucian Copolovici, *Journal of Soil Science and Plant Nutrition*, 2021, 21(2), 1408-1420.
14. Synthesis and characterization of Fe@FePt@SiO₂@NH₂nanoplatform for amino acids recognition, A. Stegarescu, S. Gutoiu, I. Lung, O. Opreș, C. Leostean, O. Pana, L. Barbu, **M. L. Soran***, *J Nanopart Res*, 2021, 23(4), 91.
15. Nanocomposite based on Fe₃O₄/MnO₂ for biodiesel production improving, A. Stegarescu, **M. L. Soran***, I. Lung, O. Opreș, S. Gutoiu, C. Leostean, M.D. Lazar, I. Kacso, T.D. Silipas, O. Pana, A.S. Porav, *Chemical Papers*, 2021, 75(7), 3513-3520.
16. Optimization of extraction conditions of polyphenols, antioxidant capacity and sun protection factor from *Prunus spinosa* fruits: application in sunscreen formulation, O. Opreș, **M.L. Soran***, I. Lung*, A. Stegarescu, S. Gutoiu, R. Podea, P. Podea, *Journal of the Iranian Chemical Society*, 2021, **18**, 2625–2636.
17. Evaluation of CNT-COOH/MnO₂/Fe₃O₄ nanocomposite for ibuprofen and paracetamol removal from aqueous solutions, Ildiko Lung, **Maria-Loredana Soran***, Adina Stegarescu*, Ocsana Opreș, Simona Gutoiu, Cristian Leostean, Mihaela Diana Lazar, Irina Kacso, Teofil-Danut Silipas, Alin Sebastian Porav, *Journal of Hazardous Materials*, 2021, 403, 123528.
18. Interplay between metabolic and thyroid parameters in obese pubertal children. Does visceral adipose tissue make the first move?, N. Răcățianu, N. V. Leach, S. D. Bolboacă, **M.L. Soran**, O. Opreș, E. Dronca, A. Valea, C. Ghervan, *Acta Clinica Belgica*, 2021, 76(1), 40-41.
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20. Investigating the effects of non-steroidal anti-inflammatory drugs (NSAIDs) on the composition and ultrastructure of green leafy vegetables with important nutritional values, Ocsana Opreș, Ildikó Lung*, **Maria-Loredana Soran**, Alexandra Ciorîță, Lucian Copolovici, *Plant Physiology and Biochemistry* 151 (2020) 342–351.
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22. Effect of lipophilic sea buckthorn extract on cream cheese properties, A. Ghendov-Moșanu, R. Sturza, O. Opreș*, I. Lung, L. Popescu, V. Popovici, **M.L. Soran***, A. Patraș, *Journal of Food Science and Technology*, 2020, 57(2), 628-637.
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26. Starch-coated green synthesized magnetite nanoparticles for removal of textile dye Optilan Blue from aqueous media, M. Stan, I. Lung, **M.L. Soran**, O. Opreș, C. Leostean, A. Popa, F. Copaciu, M.D. Lazar, I. Kacso, T.D. Silipas, A.S. Porav, *Journal of the Taiwan institute of chemical engineers*, 2019, 100, 65-73.
27. Microwave irradiation effect on polyphenol content and antioxidant activity of basil, Ildiko Lung, **Maria-Loredana Soran**, Ocsana Opreș, Manuela Stan, Constantin Bele, *Studia UBB Chemia*, LXIII, 3, 2018, 87-94.
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30. Removal of Lead(II), Cadmium(II), and Arsenic(III) from Aqueous Solution using Magnetite Nanoparticles Prepared by Green Synthesis with Box-Behnken Design, Ildiko Lung, Manuela Stan, Ocsana Opreș, **Maria-Loredana Soran**, Marin Senila, Maria Stefan, *Anal. Lett.*, 2018, 51(16), 2517-2529.
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II. Papers published in non-ISI journals:

1. Green-synthesized Ag-MnO₂ nanoparticles as plausible non-invasive antimicrobial treatment of cultural heritage, A. Ciorfă, R. Gutt, I. Lung, M.L. Soran, M. Pârveu, GeoPatterns, 2021, VI, 6-10.
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