

List of papers

I. Lucrări publicate în jurnale ISI:

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.
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
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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.
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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.
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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.
21. Green synthesis of Ag-MnO₂ nanoparticles using Chelidonium majus and Vinca minor extracts and their in vitro cytotoxicity, A. Ciorîță, M. Suci, S. Macavei, I. Kacso, I. Lung, **M.L. Soran***, M. Pârnu, *Molecules*, 2020, 25, 819.
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. Patras, *Journal of Food Science and Technology*, 2020, 57(2), 628-637.

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II. Lucrări publicate în jurnale necotate ISI:

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3. The assessment of influence of some abiotic stress factors on the elemental content of lettuce, Culicov O., Lung I., Soran M.L., Stegarescu A., **Opris O.**, Strelkova L., Nekhoroshkov P., *The IV International Scientific Forum "Nuclear Science and Technologies", 26-30 septembrie, 2022, Almaty, Republica Kazakhstan*
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13. Process for manufacturing natural cosmetic emulsion with sun protection factor, **M.L. Soran**, I. Lung, O. Opris, A.O. Stegarescu, R. Podea, *19th edition of the International Exhibition of Research, Innovations and Inventions PRO INVENT, 20-22 October 2021, Cluj-Napoca*

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16. *Vinca minor* and *Chelidonium majus* as reducing agents for Ag-MnO₂ nanoparticle synthesis, Alexandra CIORÎȚĂ, Maria Suci, Sergiu Macavei, Irina Kacso, Ildiko Lung, **Maria-Loredana Soran**, Marcel Pârnu, International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES, 7-8 October 2021, Chișinău, Moldova
17. Application of nanocomposites based on CNT-COOH as adsorbents for the removal of tartrazine from aqueous solutions, **ML Soran**, I Lung, O Opris, A Stegarescu, 13th International Conference – Processes in Isotopes and Molecules (PIM 2021)”, 22 – 24 September 2021, Cluj-Napoca, România
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19. Synthesis and characterization of Fe₃O₄/MnO₂ nanocomposite for improving of biodiesel production, A Stegarescu, **ML Soran**, I Lung, O Opris, S Guțoiu, C Leostean, MD Lazar, I Kacso, TD Silipas, O Pană, AS Porav, 13th International Conference – Processes in Isotopes and Molecules (PIM 2021)”, 22 – 24 September 2021, Cluj-Napoca, România
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22. Carbon nanotubes/metal oxide nanocomposites –preparation, characterization and possible applications in water decontamination, Adina STEGARESCU, **Maria-Loredana SORAN**, Ildiko LUNG, Cristian PORAV, Diana LAZAR, Gheorghe BORODI, Ovidiu PANA, *Euroasia congress on scientific researches and recent trends-VII*, 7-8 December 2020, Baku, Azerbaijan
23. The influence of CuO nanoparticles and copper sulphate and nitrate salt on composition and ultrastructure of wheat, **Maria – Loredana SORAN**, Otilia Ana CULICOV, Ildiko LUNG, Ocsana OPRIȘ, Adina STEGARESCU, *Euroasia congress on scientific researches and recent trends-VII*, 7-8 December 2020, Baku, Azerbaijan
24. Comparison of the effect of soil amendment of biogenic and chemical obtained CuO NPs on bioactive compounds and elemental accumulation in wheat, Ildiko LUNG, Ocsana OPRIȘ, **Maria – Loredana SORAN**, Otilia Ana CULICOV, Alexandra CIORÎȚĂ, Adina STEGARESCU, Inga ZINICOVSICAIA, Nikita YUSHIN, Konstantin VERGEL, Irina KACSO, Gheorghe BORODI, Marcel PARVU, *The 6th International Conference „Advances in engineering & management – ADEM 2020”*, 10-11 December 2020, Drobeta-Turnu Severin, Romania
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27. Optimization of bioactive compounds extraction from garlic for improvement of antioxidant and antifungal properties, Ildiko LUNG, Iuliana VASIAN, Doina Iulia Rotaru, Ioana Alina COLOSI, Adina STEGARESCU, Ocsana OPRIȘ, **Maria – Loredana SORAN**, 18th International Conference – Life Science for Sustainable Development, 26-28 September 2019, Cluj-Napoca, Romania
28. The influence of nanoparticles based on Cu and Ti on bioactive compounds from wheat, Ildiko LUNG, Ocsana OPRIȘ, Otilia CULICOV, Adina STEGARESCU, Alexandra CIORÎȚĂ, Stelian PINTEA, Simona GUȚOIU, Inga Zinicovscaia, Nikita Yushin, Konstantin Vergel and **Maria – Loredana SORAN**, 18th International Conference – Life Science for Sustainable Development, 26-28 September 2019, Cluj-Napoca, Romania
29. MnO₂/GO – preparation and characterization, **M L Soran**, O Opris, I Lung, A Stegarescu, S Guțoiu, S Porav, D Lazăr, S Pinteana and O Pană, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România
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32. Changes in composition and ultrastructure of green leafy vegetables after exposure to non-steroidal anti-inflammatory drugs, O Opris, A Ciorîță, **M L Soran**, I Lung, L Copolovici, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România

33. Optimization of the berries extracts with antioxidant activity, I Lung, **M.L Soran**, O Opris, A Stegarescu, S Gutoiu, M Stan, R Podea, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România
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