

Publication lists

Papers published in ISI journals:

- M.L. Soran, A.N. Sîrb, I. Lung, O. Opri , O. Culicov, A. Stegarescu, P. Nekhoroshkov, D.M. Gligor. A multi-method approach for impact assessment of some heavy metals on *Lactuca sativa* L. *Molecules*, 2023, 28, 759.
- I. Lung, M.L. Soran, A. Stegarescu, O. Opri . Application of CNT-COOH/MnO₂/Fe₃O₄ nanocomposite for the removal of cymoxanil from aqueous solution: isotherm and kinetic studies. *Analytical Letters*, 2023, 56(2), 216-230.
- I. Lung, A. Stegarescu, O. Opri , M.L. Soran. Testing MWCNT-COOH/Fe₃O₄ nanocomposite for the removal of ampicillin from synthetic aqueous solutions. *STUDIA UBB CHEMIA*, LXVII, 4, 2022, 141-149.
- A. Stegarescu, I. Lung, A. Ciorîță, I. Kacso, O. Opriș, M.L. Soran, A. Soran. The antibacterial properties of nanocomposites based on carbon nanotubes and metal oxides functionalized with azithromycin and ciprofloxacin. *Nanomaterials*, 2022, 12, 4115.
- A. Stegarescu, H. Cabrera, H. Budasheva, M.L. Soran, I. Lung, F. Limosani, D. Korte, M. Amati, G. Borodi, I. Kacso, O. Opri , M. Dan, S. Bellucci. Synthesis and characterization of MWCNT-COOH/Fe₃O₄ and CNT-COOH/Fe₃O₄/NiO nanocomposites: Assessment of adsorption and photocatalytic performance. *Nanomaterials*, 2022, 12, 3008.
- O. Culicov, A. Stegarescu, M.L. Soran, I. Lung, O. Opriș, A. Ciorîță, P. Nekhoroshkov. The effect of copper salts on bioactive compounds and ultrastructure of wheat plants. *Molecules*, 2022, 27, 4835.
- O. Opri , I. Lung, M.L. Soran, A. Stegarescu, T. Cesco, A. Ghendov-Mosanu, P. Podea, R. Sturza. Efficient extraction of total polyphenols from apple and investigation of its SPF properties. *Molecules*, 2022, 27, 1679.
- A. Ghendov-Mosanu, D. Cojocari, G. Balan, A. Patras, I. Lung, M.L. Soran, O. Opri , E. Cristea, R. Sturza. Chemometric optimization of biologically active compounds extraction from grape marc: Composition and antimicrobial activity. *Molecules*, 2022, 27, 1610.
- I. Lung, M.L. Soran, A. Stegarescu, O. Opri . Devrinol and triadimefon removal from aqueous solutions using CNT-COOH/MnO₂/Fe₃O₄ nanocomposite. *Journal of the Iranian Chemical Society*, 2022, 19(5), 2031-2039.
- M.L. Soran, I. Lung, O. Opri , O. Culicov, A. Ciorîță, A. Stegarescu, I. Zinicovscaia, N. Yushin, K. Vergel, I. Kacso, G. Borodi. The effect of TiO₂ nanoparticles on the composition and ultrastructure of wheat. *Nanomaterials*, 2021, 11(12), 3413.
- A. Macari, R. Sturza, I. Lung, M.L. Soran, O. Opri , G. Balan, A. Ghendov-Mosanu, D.C. Vodnar, D. Cojocari. Antimicrobial effects of basil, summer savory and tarragon lyophilized extracts in cold storage sausages. *Molecules*, 2021, 26(21), 6678.
- I. Lung, O. Opriș, M.L. Soran, O. Culicov, A. Ciorîță, A. Stegarescu, I. Zinicovscaia, N. Yushin, K. Vergel, I. Kacso, G. Borodi, M. Pârvu. The Impact Assessment of CuO Nanoparticles on the Composition and Ultrastructure of *Triticum aestivum* L. *International Journal of Environmental Research and Public Health*, 2021, 18, 6739.
- O. Opriș, M.L. Soran, I. Lung, A. Ciorîță, L. Copolovici. Biotransformation of non-steroidal anti-inflammatory drugs induces ultrastructural modifications in green leafy vegetables. *Journal of Soil Science and Plant Nutrition*, 2021, 21, 1408-1420.
- A. Stegarescu, M.L. Soran, I. Lung, O. Opriș, S. Gutoiu, C. Leostean, M.D. Lazar, I. Kacso, T.D. Silipas, O. Pana, A.S. Porav. Nanocomposite based on Fe₃O₄/MnO₂ for biodiesel production improving. *Chemical Papers*, 2021, 75, 3513-3520.
- O. Opriș, M.L. Soran, I. Lung, A. Stegarescu, S. Gutoiu, R. Podea, P. Podea. Optimization of extraction conditions of polyphenols, antioxidant capacity and sun protection factor from *Prunus spinosa* fruits: application in sunscreen formulation. *Journal of the Iranian Chemical Society*, 2021, 18, 2625-2636.
- I. Lung, M.L. Soran, A. Stegarescu, O. Opri , S. Gutoiu, C. Leostean, M.D. Lazar, I. Kacso, T.D. Silipas, A.S. Porav. Evaluation of CNT-COOH/MnO₂/Fe₃O₄ nanocomposite for ibuprofen and paracetamol removal from aqueous solutions. *Journal of hazardous materials*, 2021, 403, 123528.
- A. Stegarescu, S. Guțoiu, I. Lung, O. Opriș, C. Leostean, O. Pan , L. Barbu, M.L. Soran. Synthesis and characterization of Fe@FePt@SiO₂@NH₂ nanoplatfor for amino acids recognition. *Journal of Nanoparticle Research*, 2021, 23, 91.
- O. Opri , I. Lung, M.L. Soran, A. Ciorîță, L. Copolovici. Investigating the effects of non-steroidal anti-inflammatory drugs (NSAIDs) on the composition and ultrastructure of green leafy vegetables with important nutritional values. *Plant Physiology and Biochemistry*, 2020, 151, 342-351.
- A. Ciorîță, M. Suci, S. Macavei, I. Kacso, I. Lung, M.L. Soran, M. Pârvu. Green synthesis of Ag-MnO₂ nanoparticles using *Chelidonium majus* and *Vinca minor* extracts and their *in vitro* cytotoxicity. *Molecules*, 2020, 25, 819.
- X. Filip, F. Martin, M. Pop, I. Kacso, I. Grosu, M. Miclaus, D. Vodnar, I. Lung, G. Filip, E.D. Olteanu, R. Moldovan, A. Nagy, I. Baldea. Ketoconazole - p-aminobenzoic acid cocrystal: revival of an old drug by crystal engineering. *Molecular Pharmaceutics*, 2020, 17, 919-932.
- A. Ghendov-Mosanu, R. Sturza, O. Opri , I. Lung, L. Popescu, V. Popovici, M.L. Soran, A. Patra . Effect of lipophilic sea buckthorn extract on cream cheese properties. *Journal of Food Science and Technology*, 2020, 57(2), 628-637.
- A. Stegarescu, I. Lung, C. Leostean, I. Kacso, O. Opri , M.D. Lazar, L. Copolovici, S. Guțoiu, M. Stan, A. Popa, O. Pană, A.S. Porav, M.L. Soran. Green synthesis, characterization and test of MnO₂ nanoparticles as catalyst in biofuel production from grape residue and seeds oil. *Waste and Biomass Valorization*, 2020, 11, 5003-5013.
- O. Opri , A. Ciorîță, M.L. Soran, I. Lung, D. Copolovici, L. Copolovici. Evaluation of the photosynthetic parameters, emission of volatile organic compounds and ultrastructure of common green leafy vegetables after exposure to non-steroidal anti-inflammatory drugs (NSAIDs). *Ecotoxicology*, 2019, 28, 631-642.
- T. Constantinescu, C.N. Lungu, I. Lung. Lipophilicity as a central component of drug-like properties of chalcones and flavonoid derivatives. *Molecules*, 2019, 24, 1505.
- M. Stan, I. Lung, M.L. Soran, O. Opri , C. Leostean, A. Popa, F. Copaciu, M.D. Lazar, I. Kacso, T.D. Silipas, A.S. Porav. Starch-coated green synthesized magnetite nanoparticles for removal of textile dye Optilan Blue from aqueous media. *Journal of the Taiwan Institute of Chemical Engineers*, 2019, 100, 65-73.

26. C. Voica, **I. Lung**, M.D. Lazar, A.D. Magdas. Removal of metals from water using platinum nanostructured carbon composites. *Analytical letters*, 2019, 52(1), 201-212.
27. **I. Lung**, M.L. Soran, M. Stan, O. Opris, F. Copaciu, M. Stefan, M.D. Lazar, C. Leostean, A.S. Porav. Green synthesized Fe₃O₄ nanoparticles for Lanasyne Red azo dye removal from aqueous solutions. *Revue Roumaine de Chimie*, 2018, 63(10), 965-970.
28. **I. Lung**, M.L. Soran, O. Opris, M. Stan, C. Bele. Microwave irradiation effect on polyphenol content and antioxidant activity of basil. *Studia UBB Chemia, LXIII*, 2018, 3, 87-94.
29. O. Vostinaru, E. Dinte, M.L. Soran, **I. Lung**, O. Opris, C. Mogosan. Evaluation of the anti-gout potential of *Calluna vulgaris* L. (Ericaceae) in rats. *Records of Natural Products*, 2018, 12(5), 432-444.
30. **I. Lung**, M. Stan, O. Opris, M.L. Soran, M. Senila, M. Stefan. Removal of lead(II), cadmium(II), and arsenic(III) from aqueous solution using magnetite nanoparticles prepared by green synthesis with Box-Behnken design. *Analytical letters*, 2018, 51, 2517-2529.
31. E. Szekeres, C.M. Chiriac, A. Baricz, T. Szoke-Nagy, **I. Lung**, M.L. Soran, K. Rudi, N. Dragos, C. Coman. Investigating antibiotics, antibiotic resistance genes, and microbial contaminants in groundwater in relation to the proximity of urban areas. *Environmental Pollution*, 2018, 236, 734-744.
32. D. Casoni, M. Badea, **I. Bros**, S.C.A. Cobzac. Investigation on image processing parameters for plate evaluation in TLC analysis of mycotoxins. *Studia Universitatis Babeş-Bolyai Chemia*, 2017, 62(3), 89-102.
33. M.L. Soran, O. Opris, **I. Lung**, I. Kacso, A.S. Porav, M. Stan. The efficiency of the multi-walled carbon nanotubes used for antibiotics removal from wastewaters generated by animal farms. *Environmental Science and Pollution Research*, 2017, 24(19), 16396-16406.
34. M. Stan, **I. Lung**, M.L. Soran, C. Leostean, A. Popa, M. Stefan, M.D. Lazar, O. Opris, T.D. Silipas, A.S. Porav. Removal of antibiotics from aqueous solutions by green synthesized magnetite nanoparticles with selected agro-waste extracts. *Process Safety and Environmental Protection*, 2017, 107, 357-372.
35. M.L. Soran, **I. Lung**, O. Opris, V. Floare-Avram, C. Coman. Determination of antibiotics in surface water by solid-phase extraction and high-performance liquid chromatography with diode array and mass spectrometry detection. *Analytical letters*, 2017, 50(7), 1209-1218.
36. O. Opris, M.L. Soran, **I. Lung**, M.R.C. Trusca, T. Szoke-Nagy, C. Coman. The optimization of the antibiotics extraction from wastewaters and manure using Box-Behnken experimental design. *International Journal of Environmental Science and Technology*, 2017, 14(3), 473-480.
37. R. Puscas, D.A. Magdas, **I. Lung**, G. Cristea, M.L. Soran, I. Feher, A. Dehelean. Isotopic composition influence of irrigation water on some aromatic plants. *Studia UBB Chemia*, 2016, LXI, 4, 31-42.
38. **I. Lung**, M.L. Soran, O. Opris, M.R.C. Trusca, Ü. Niinemets, L. Copolovici. Induction of stress volatiles and changes in essential oils content and composition upon microwave exposure in the *Ocimum basilicum* aromatic plant. *Science of the Total Environment*, 2016, 569-570, 489-495.
39. A. Dehelean, D.A. Magdas, R. Puscas, **I. Lung**, M. Stan. Quality assessment of some commercial Romanian juices. *Romanian Reports in Physics*, 2016, 68, 746-759.
40. M. Stan, A. Popa, D. Toloman, A. Dehelean, **I. Lung**, G. Katona. Enhanced photocatalytic degradation properties of zinc oxide nanoparticles synthesized by using plant extracts. *Materials Science in Semiconductor Processing*, 2015, 39, 23-29.
41. **I. Lung**, M. Stan, O. Opris, M.L. Soran. Determination of myristicin and linalool in plants exposed to microwave radiation by high-performance liquid chromatography. *Analytical letters*, 2015, 48, 1-8.
42. M. Stan, M.L. Soran, C. Varodi, **I. Lung**. Influence of microwave field on the ascorbic acid content in leaves of some common aromatic plants in Romania. *Studia Universitatis Babeş-Bolyai, Chemia*, 2014, LIX, 1, 125-133.
43. M. Stan, O. Opris, **I. Lung**, M.L. Soran. High-performance thin-layer chromatographic quantification of myristicin and linalool from leaf extracts of microwave-irradiated parsley, dill and celery. *Journal of planar chromatography – Mod. TLC*, 2014, 27(2), 97-101.
44. M. Stan, **I. Lung**, O. Opris, M.L. Soran. High-performance thin-layer chromatographic quantification of some essential oils from *Anethum graveolens* extracts. *Journal of planar chromatography – Mod. TLC*, 2014, 27(1), 33-37.
45. M. Stan, M.L. Soran, C. Varodi, **I. Lung**, L. Copolovici, C. M. ru oi. Extraction and GC determination of volatile aroma compounds from extracts of three plant species of the *Apiaceae* family. *AIP Conference Proceedings*, 2013, 1565, 75-78.
46. **I. Lung**, M.L. Soran, C. Tudoran, C. M. ru oi. Effect of microwave irradiation on polyphenolic compounds from *Satureja hortensis* L. *Central European Journal of Chemistry*, 2013, 11(4), 535-541.
47. M. Stan, M.L. Soran, C. Varodi, **I. Lung**. Extraction and identification of flavonoids from parsley extracts by HPLC analysis. *AIP Conference Proceedings*, 2012, 1425, 50-52.
48. M.L. Soran, C. Varodi, S.C. Cobzac, **I. Lung**. Essential oils determination from *Satureja hortensis* L. by chromatographic techniques. *Journal of Essential Oil – Bearing Plants*, 2011, 14(6), 699-707.
49. M.L. Soran, **I. Lung**. HPTLC analysis of thymol in extracts of *Satureja hortensis* L. obtained by different techniques. *Journal of Planar Chromatography – Mod. TLC*, 2010, 23(5), 320-322.
50. M. L. Soran, S. C. Cobzac, C. Varodi, **I. Lung**, E. Surducan, V. Surducan. Extraction and chromatographic determination of essential oils from *Ocimum basilicum* L. leaves. *Studia Universitatis “Babeş-Bolyai”, Chemia*, 2010, LV(3), 31-38.
51. **I. Bros**, M.L. Soran, R.D. Briciu, S.C. Cobzac. HPTLC quantification of some flavonoids in extracts of *Satureja hortensis* L. obtained by use of different techniques. *Journal of Planar Chromatography – Mod. TLC*, 2009, 22(1), 25-28.
52. M.L. Soran, **I. Bros**, E. Surducan, V. Surducan. Microwave assisted thin-layer chromatography - an improved separation technique. *J. Planar Chromatogr.-Mod. TLC*, 2008, 21(4), 243-248.

Papers published in non-ISI journals:

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

2. M. T ma , O. Vostinaru, L. Soran, I. Lung, O. Opris, A. Toiu, A. Gavan, E. Dinte, C. Mogosan. Antihyperuricemic, anti-inflammatory and antihypertensive effect of a dry extract from *Solidago virgaurea* L. (Asteraceae). *Scientia Pharmaceutica*, 2021, 89, 27.
3. O. Opri , **I. Lung**, M.L. Soran, R. Sturza, A. Ghendov-Mo anu. Fondant candies enriched with antioxidants from aronia berries and grape marc. *Revista de Chimie*, 2020, 71(2), 74-79.
4. O. Opri , **I. Lung**, M.L. Soran, L. Copolovici, D.M. Copolovici, M.C. Costa. Impact assessment of acetaminophen (paracetamol) on *Phaseolus vulgaris* L. and *Triticum aestivum* L. plants. *Revista de Chimie*, 2020, 71(3), 549-557.
5. M. Stan, I. Lung, M.L. Soran, O. Opris, C. Leostean, A. Popa, F. Copaciu, M.D. Lazar, I. Kacso, T.D. Silipas, A.S. Porav. Data on the removal of Optilan Blue dye from aqueous media using starch-coated green synthesized magnetite nanoparticles. *Data in brief*, 2019, 25, 104165.
6. V. Popovici, R. Sturza, A. Ghendov-Mosanu, L. Soran, **I. Lung**, A. Patras. Influen a condi iilor de extrac ie asupra compozi iei i activit ii antioxidante a extractelor liposolubile de m ce e. *Meridian Ingineresc*, 2018, 1(68), 23-27.
7. M.L. Soran, M. Stan, **I. Lung**, M.R.C. Trusca. Microwave field effect on polyphenolic compounds from aromatic plants. *Journal of Sustainable Development of Energy, Water and Environment Systems*, 2016, 4(1), 48-55.
8. **I. Lung**, M.L. Soran, M. Stan, C. Bele, C. Matea. Evaluation of total chlorophyll content in microwave-irradiated *Ocimum basilicum* L. *Scientific Bulletin of ESCORENA*, 2013, 8, 31-35.
9. **I. Lung**, M.L. Soran, M. Stan, D. Podar. Quantification of total flavonoids and phenolic acids from microwave irradiated and non-irradiated plants. *Advances in Research*, 2013, 1(1), 1-10.
10. V. Surducan, **I. Lung**, E. Surducan. The effect of coloured light on *Ipomoea purpurea* growth. *Journal of Physics: Conference Series*, 2009, 182, 012016.
11. M.L. Soran, S.C. Cobzac, C. Varodi, **I. Lung**, E. Surducan, V. Surducan. The extraction and chromatographic determination of the essentials oils from *Ocimum basilicum* L. by different techniques. *Journal of Physics: Conference Series*, 2009, 182, 012016.
12. S. Cobzac, M. Moldovan, **I. Bros**, N.K. Olah, E. Surducan, T. Hodisan. Flavonoids extraction from *Geranium macrorrhizum* herba using different extraction techniques and TLC quantification. *Acta Universitatis Cibiniensis, Seria F, Chemia*, 2005, 8(1), 33-39.
13. **I. Bros**, C. Neam u, V. Surducan, E. Surducan. Microwaves liquid-probe effective absorption measurement using a microwave power calorimetric method. *Studia Universitatis Babes-Bolyai, Physica, special issue*, 2005, 431-435.
14. M. Moldovan, **I. Bros**, C. Cobzac, E. Surducan, V. Surducan, T. Hodisan. Quantitative analysis of polyphenol compounds from plant extracts. *Studia Universitatis Babes-Bolyai, Physica, special issue*, 2005, 519-523.
15. V. Miclaus, **I. Bros**, Z. Moldovan, C. Cimpoiu, E. Surducan, N. Palibroda. The identification by MS and GC/MS of photodegradation products of indomethacin ointment. *Studia Universitatis "Babes-Bolyai", Chemia*, 2005, L, 1, 121-127.
16. **I. Bros**, M. Moldovan, S. Cobzac, E. Surducan, V. Surducan, T. Hodisan. Microwave calorimetry studies for plant extraction application. *Studia Universitatis Babes-Bolyai, Physica*, 2004, XLIX, 3, 135-140.
17. S. Cobzac, M. Moldovan, **I. Bros**, E. Surducan, S. Gocan. Microwave extraction of bioactive compounds from Geranium herba. *Studia Universitatis Babes-Bolyai, Physica*, 2004, XLIX, 3, 11-15.

Papers published in proceedings

1. C. Varodi, M.L. Soran, **I. Lung**, O. Opris, L. Muresan. Ascorbic acid determination from alcoholic and soft drinks by different techniques. *Proceedings – International Conference „Modern technologies, in the Food Industry”, 20-22 octombrie 2016, Chi in u, Republica Moldova*, 395-400. ISBN: 978-9975-87-138-9.
2. M.L. Soran, M. Stan, **I. Lung**, M.R.C. Trusca. Microwave field effect on polyphenolic compounds from aromatic plants. *Proceeding of the 9th Conference on Sustainable Development of Energy, Water and Environments Systems*, September 20-27, 2014, Venice-Istanbul, SDEWES2014.0086-1-7.
3. **I. Bros**, M. Streza, M.L. Soran, V. Surducan, E. Surducan, I. Bratu, R. Pop, C. Neamtu, D. Dadarlat. Microwave degradation of sunflower oil. Complementary study by photopyroelectric and infrared spectroscopy, gas chromatography and fluorescence. *Proceeding of the International Conference „Agricultural and Food Sciences, Processes and Technologies” (International Conference „Agricultural and Food Sciences, Processes and Technologies”, Third edition, Sibiu, April 26-27, 2007)*, 2007, 5-12; ISSN 1843-0694
4. M. Streza, **I. Bros**, M.L. Soran, V. Surducan, E. Surducan, I. Bratu, I. Kacso, S.I. Farcas, C. Neamtu, D. Dadarlat. Photothermal methods applied for investigation of early spoilage of some vegetable oils. *Proceeding of the International Conference „Agricultural and Food Sciences, Processes and Technologies” (International Conference „Agricultural and Food Sciences, Processes and Technologies”, Third edition, Sibiu, April 26-27, 2007)*, 2007, 83-90; ISSN 1843-0694

Papers presented at international conferences:

1. L. Popescu, M.L. Soran, **I. Lung**, O. Opri , I. Kacso, A. Ciof , A. Ghendov-Mosanu, A. Macari, M.M. Barbaro , R. Sturza. Chemical characterization of alginate-encapsulated plant extracts. International Conference "Modern Technologies in the Food Industry", Fifth edition, October 20-22, 2022, Chisinau, Republic of Moldova.
2. O. Culicov, **I. Lung**, M.L. Soran, A. Stegarescu, O. Opri , L. Strelkova, P. Nekhoroshkov. The assessment of influence of some abiotic stress factors on the elemental content of lettuce. The IV International Scientific Forum "Nuclear Science and Technologies", September 26-30, 2022, Almaty, Republic of Kazakhstan.

3. M.L. Soran, **I. Lung**, A. Stegarescu, O. Opri , S.I. Polianciuc. Synthesis and characterization of nanocomposites based on carbon nanostructures used for decontamination of aqueous solutions. The 21st International Conference "LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT", September 15-17, 2022, Cluj-Napoca, Romania.
4. S.I. Polianciuc, M.L. Soran, **I. Lung**, A. Ciorîță, F. Loghin. Determination of some antibiotics in wastewater like an emergence target for scientific community. The 21st International Conference "LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT", September 15-17, 2022, Cluj-Napoca, Romania.
5. M.L. Soran, O. Culicov, **I. Lung**, A. Stegarescu, O. Opri . The impact assessment of metal/metal salts on onion. The 6th edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2022", June 8-10, 2022, Brasov, Romania.
6. M.L. Soran, **I. Lung**, A. Stegarescu, O. Opriș, O. Culicov, A. Ciorîță. The antibacterial properties of nanocomposites based on carbon nanotubes and metal oxides. The 6th edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2022", June 8-10, 2022, Brasov, Romania.
7. M.L. Soran, O. Culicov, **I. Lung**, A. Ciorî , O. Opri , A. Stegarescu, I. Zinicovscaia, N. Yushin, K. Vergel. Evaluation of copper salts consequence on *Triticum aestivum*. International Conference Condensed Matter Research at the IBR-2, April 25-29, 2022, Dubna, Russia
8. A. Sârb, M.L. Soran, **I. Lung**, A. Stegarescu, O. Opri , O. Culicov, D. Gligor. The variation of the bioactive compounds content in lettuce grown in the presence of heavy metals salts. The 7th International Conference Ecological & Environmental Chemistry 2022 (EEC – 2022), March 3-4, 2022, Chisinau, Republic of Moldova.
9. M.L. Soran, **I. Lung**, A. Stegarescu, O. Opri . Utilization of nanomaterials based on carbon nanotubes for tartrazine removal from water. Isotherms and kinetic studies. The 7th International Conference Ecological & Environmental Chemistry 2022 (EEC – 2022), March 3-4, 2022, Chisinau, Republic of Moldova.
10. **I. Lung**, M.L. Soran, A. Stegarescu, O. Opri . Application of CNT-COOH/MnO₂/Fe₃O₄ nanocomposite for the removal of cymoxanil from aqueous solution. The 7th International Conference Ecological & Environmental Chemistry 2022 (EEC – 2022), March 3-4, 2022, Chisinau, Republic of Moldova.
11. S.V. Polianciuc, A. Ciorî , M.L. Soran, **I. Lung**, A.E. Gurz u, F. Loghin. Quantification of antibiotics in influent and effluent wastewater treatments plant and antibiotic resistance profile of isolated bacteria. The 7th International Conference Ecological & Environmental Chemistry 2022 (EEC – 2022), March 3-4, 2022, Chisinau, Republic of Moldova.
12. M.L. Soran, **I. Lung**, O. Culicov, A. Stegarescu, O. Opris, L. Strelkova, P. Nekhoroshkov, A. Sergeeva. The influence of heavy metals salts on the growth of lettuce. The 6th Green and Sustainable Chemistry Conference – Online, November 16-18, 2021.
13. A. Ghendov-Mosanu, A. Patras, **I. Lung**, O.I. Opris, M.L. Soran, R. Sturza. Influence of ultrasonication assisted extraction on the content of bioactive compounds and antioxidant activity in grape marc extracts. The 10th International Symposium Euroalimint 2021 - Food connect people and share science in a resilient world, October 7-8, 2021, Gala i, Romania.
14. A. Stegarescu, M.L. Soran, **I. Lung**, O. Opri , S. Gu oi u, O.I. Pan . Application of nanocomposites to grape wastes processing for improve biodiesel production. International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES, October 7-8, 2021, Chisinau, Republic of Moldova.
15. O. Opri , M. L. Soran, **I. Lung**, A. Stegarescu, S. Guțoiu, R. Podea, P. Podea, R. Sturza, A. Ghendov-Mo anu. Polyphenols extraction from blackthorn berries and their application in sunscreen formulation. International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES, October 7-8, 2021, Chisinau, Republic of Moldova.
16. A. Ciorîță, M. Suci u, S. Macavei, I. Kacso, **I. Lung**, M.L. Soran, M. Pâr u. *Vinca minor* and *Chelidonium majus* as reducing agents for Ag-MnO₂ nanoparticle synthesis. International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES, October 7-8, 2021, Chisinau, Republic of Moldova.
17. M.L. Soran, **I. Lung**, O. Opri , A. Stegarescu. Application of nanocomposites based on CNT-COOH as adsorbents for the removal of tartrazine from aqueous solutions. 13th International Conference – Processes in Isotopes and Molecules (PIM 2019)", September 22 – 24, 2021, Cluj-Napoca, Romania.
18. **I. Lung**, M.L. Soran, A. Stegarescu, O. Opri . CNT-COOH/MnO₂/Fe₃O₄ nanocomposite as adsorbent for the removal of pesticides from their aqueous solution. 13th International Conference – Processes in Isotopes and Molecules (PIM 2019)", September 22 – 24, 2021, Cluj-Napoca, Romania.
19. A. Stegarescu, M.L. Soran, **I. Lung**, O. Opri , S. Gu oi u, C. Leo tean, M.D. Lazar, I. Kacso, T.D. Silipas, O. Pan , A.S. Porav. Synthesis and characterization of Fe₃O₄/MnO₂ nanocomposite for improving of biodiesel production. 13th International Conference – Processes in Isotopes and Molecules (PIM 2019)", September 22 – 24, 2021, Cluj-Napoca, Romania.
20. **I. Lung**, Culicov O, Stegarescu A, Opri O, A. Ciorî , Soran ML, Inga Zinicovscaia, Nikita Yushin, Konstantin Vergel. Impact assessment of copper salts on various plants. 28th International Seminar on Interaction of Neutrons with Nuclei: «Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics», May 24-28, 2021, Dubna, Russia.
21. **I. Lung**, O. Opri , M.L. Soran, O.A. Culicov, A. Ciorî , A. Stegarescu, I. Zinicovscaia, N. Yushin, K. Vergel, I. Kacso, G. Borodi, M. Parvu. Comparison of the effect of soil amendment of biogenic and chemical obtained CuO NPs on bioactive compounds and elemental accumulation in wheat. The 6th International Conference „Advances in engineering & management – ADEM 2020”, December 10-11, 2020, Drobeta-Turnu Severin, Romania.
22. A. Stegarescu, M.L. Soran, **I. Lung**, C. Porav, D. Lazar, G. Borodi, O. Pana. Carbon nanotubes/metal oxide nanocomposites – preparation, characterization and possible applications in water decontamination. Euroasia congress on scientific researches and recent trends-VII, December 7-8, 2020, Baku, Azerbaijan.
23. M.L. Soran, O.A. Culicov, **I. Lung**, O. Opri , A. Stegarescu. The influence of CuO nanoparticles and copper sulphate and nitrate salt on composition and ultrastructure of wheat. Euroasia congress on scientific researches and recent trends-VII, December 7-8, 2020, Baku, Azerbaijan.

24. O. Opri , **I. Lung**, M.L. Soran, A. Ciorî , L. Copolovici. The influence of ibuprofen, diclofenac and naproxen on composition and ultrastructural characteristics of *Atriplex patula* and *Spinacia oleracea*. ICABBBE 2019: 13. International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering, October 21-22, 2019, Athens, Greece.
25. **I. Lung**, I. Vasian, D.I. Rotaru, I.A. Colosi, A. Steg rescu, O. Opri , M.L. Soran. Optimization of bioactive compounds extraction from garlic for improvement of antioxidant and antifungal properties. 18th International Conference "Life Sciences for Sustainable Development" September 26–28, 2019, Cluj-Napoca, Romania.
26. **I. Lung**, O. Opri , O. Culicov, A. Steg rescu, A. Ciorî , S. Pinteaa, S. Guțoiu, I. Zinicovscaia, N. Yushin, K Vergel, M.L. Soran. The influence of nanoparticles based on Cu and Ti on bioactive compounds from wheat. 18th International Conference "Life Sciences for Sustainable Development" September 26–28, 2019, Cluj-Napoca, Romania.
27. M.L. Soran, O. Opri , **I. Lung**, A. Stegarescu, S. Gu oiou, S. Porav, D. Laz r, S. Pinteaa, O. Pan . MnO₂/GO – preparation and characterization. 12th International Conference Processes in Isotopes and Molecules, September 25-27, 2019, Cluj-Napoca, Romania.
28. A. Stegarescu, M.L. Soran, **I. Lung**, O. Opris, S. Gu oiou, S. Porav, D. Laz r, S. Pinteaa, C. Leo tean, O. Pan . Preparation and characterization of magnetic nanocomposites based on CNT/Fe₃O₄, with sorption properties. 12th International Conference Processes in Isotopes and Molecules, September 25-27, 2019, Cluj-Napoca, Romania.
29. **I. Lung**, M.L. Soran, O. Opri , A. Steg rescu, S. Guțoiu, M. Stan, R. Podea. Optimization of the berries extracts with antioxidant activity. 12th International Conference Processes in Isotopes and Molecules, September 25-27, 2019, Cluj-Napoca, Romania.
30. O. Opri , A. Ciorî , M.L. Soran, **I. Lung**, L. Copolovici. Changes in composition and ultrastructure of green leafy vegetables after exposure to non-steroidal anti-inflammatory drugs. 12th International Conference Processes in Isotopes and Molecules, September 25-27, 2019, Cluj-Napoca, Romania.
31. O. Opri , M.L. Soran, **I. Lung**, A. Ciorî , L. Copolovici. Effects of non-steroidal anti-inflammatory drugs on the ultrastructure and composition of autochthonous vegetables. 4th Edition of Global Conference on Plant Science and Molecular Biology, September 19-21, 2019, London, Great Britain.
32. O. Opris, M.L. Soran, **I. Lung**, L. Copolovici. Chromatographic determination of different drugs from environment. Separation Sciences in the SChR Centenary, October 26, 2018, Cluj-Napoca, Romania.
33. V. Popovici, R. Sturza, A. Ghendov-Mosanu, I. Rosca, L. Soran, **I. Lung**, O. Opris. Total carotenoid content of local berries lipophilic extracts. 4th International Conference „Modern Technologies in the Food Industry” MTFI – 2018, October 18-20, Chisinau, Republic of Moldova.
34. O. Opris, M.L. Soran, **I. Lung**, A. Ciorita, L. Copolovici. Toxic influence of environmental pollutants on green leafy vegetables. 4th International Conference „Modern Technologies in the Food Industry” MTFI – 2018, October 18-20, Chisinau, Republic of Moldova.
35. **I. Lung**, M.L. Soran, O. Opris, A. Stegarescu, S. Gutoiu, A. Ghendov-Mosanu. Optimization of the total polyphenols extraction from *Hippophae Rhamnoides* using Central Composite design. 4th International Conference „Modern Technologies in the Food Industry” MTFI – 2018, October 18-20, Chisinau, Republic of Moldova.
36. O. Opris, M.L. Soran, **I. Lung**, A. Ciorita, L. Copolovici. Changes in foliage photosynthetic characteristics and structure of autochthonous vegetables upon nonsteroidal anti-inflammatory drugs exposure. 17th International Symposium – Prospects for the 3rd Millennium Agriculture, September 27–29, 2018, Cluj-Napoca, Romania.
37. O. Opri , **I. Lung**, M.L. Soran, A. Ciorita, L. Copolovici. The influence of nonsteroidal anti-inflammatory drugs on photosynthesis and Leaf anatomy of *Atriplex patula* L. 17th International Symposium – Prospects for the 3rd Millennium Agriculture, September 27–29, 2018, Cluj-Napoca, Romania.
38. M. Stan, M.L. Soran, **I. Lung**, O. Opris, C. Leostean, T.D. Silipas, D.C. Vodnar, M.D. Lazar, A.S. Porav, M. Stefan. Synthesis, characterization, and antibacterial activity of green synthesized Fe₃O₄/CuO/Ag nanocomposites. 18th International Balkan Workshop on Applied Physics and Materials Science, July 10-13, 2018, Constanta, Romania.
39. M. Stan, **I. Lung**, A. Stegarescu, O. Opris, S. Gutoiu, M.L. Soran, T.D. Silipas, C. Leostean, O. Pana, M.D. Lazar, A.S. Porav. Preparation of MnO₂/carbon nanotubes with sorption properties. *The Fifth Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2018"*, May 23-25, 2018, Brasov, Romania.
40. A. Stegarescu, M.L. Soran, S. Gutoiu, **I. Lung**, O. Pana. Functionalization of iron/platinum nanoparticles with core-shell structure. *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, September 27 – 29, 2017, Cluj-Napoca, Romania.
41. V.A. Toma, A.C. Mot, A.D. Farcas, S. Neamtu, L. Soran, **I. Lung**, M. Parvu. Allicin: natural distribution, antioxidant and biological activity profile. *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, September 27 – 29, 2017, Cluj-Napoca, Romania.
42. O. Opris, M.L. Soran, **I. Lung**, I. Kacso, A.S. Porav, M. Stan. The efficiency of the multi-walled carbon nanotubes used for the antibiotics removal from wastewaters generated by animal farms. *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, September 27 – 29, 2017, Cluj-Napoca, Romania.
43. M.R.C. Trusca, O. Opris, **I. Lung**, A. Ghendov-Mosanu, R. Sturza, M.L. Soran. Optimization of polyphenols extraction from hawthorn fruits. *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, September 27 – 29, 2017, Cluj-Napoca, Romania.
44. **I. Lung**, M. Senila, M.L. Soran, O. Opris, M. Stan, M. Stefan. Optimization of some heavy metals removal from aqueous solution using biosynthesized magnetite nanoparticles. *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, September 27 – 29, 2017, Cluj-Napoca, Romania.
45. M.L. Soran, **I. Lung**, A. Stegarescu, C. Leostean, O. Opris, M.D. Lazar, L. Copolovici, M. Stan, O. Pana, A.S. Porav. Preparation of MnO₂ nanocatalyst used for biofuel production. *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, September 27 – 29, 2017, Cluj-Napoca, Romania.

46. M. Stan, M.L. Soran, **I. Lung**, O. Opris, C. Leostean, M.D. Lazar, T.D. Silipas, A.S. Porav. Chitosan coating of green synthesized magnetite nanoparticles: preparation and characterization. *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, September 27 – 29, 2017, Cluj-Napoca, Romania.
47. O. Opris, **I. Lung**, M. Stan, M.L. Soran, R. Sturza, A. Ghendov-Mosanu. Optimization of Polyphenols extraction from sea buckthorn and sea buckthorn groats. *8th International Symposium EuroAliment*, September 7 – 8, 2017, Galati, Romania.
48. **I. Lung**, O. Opris, M. Stan, A. Ghendov-Mosanu, M.L. Soran, R. Sturza. Quantification of antioxidant activity of hawthorns fruits and food applications. *8th International Symposium EuroAliment*, September 7 – 8, 2017, Galati, Romania.
49. A. Ghendov-Mosanu, R. Sturza, **I. Lung**, O. Opris, A. Patras. Characteristics of the composition and antioxidant capacity of forest fruits' oily extracts. *8th International Symposium EuroAliment*, September 7 – 8, 2017, Galati, Romania.
50. M. Stan, **I. Lung**, M.L. Soran, O. Opris, C. Leostean, A. Popa, M. Stefan, M.D. Lazar, T.D. Silipas, A.S. Porav. Removal of different pollutants from aqueous solutions using magnetite nanoparticles. *Workshop „Integrated nanodevices for environmental analysis”*, May 26, 2017, Cluj-Napoca, Romania.
51. M.L. Soran, O. Opris, **I. Lung**, I. Kacso, A.S. Porav, M. Stan. Antibiotics removal with carbon nanotubes. *Workshop „Integrated nanodevices for environmental analysis”*, May 26, 2017, Cluj-Napoca, Romania.
52. C. Varodi, M.L. Soran, **I. Lung**, O. Opris. Ascorbic acid determination from alcoholic and soft drinks by different techniques. *International Conference - Modern technologies, in the Food Industry*, October 20-22, 2016, Chisinau, Republic of Moldova.
53. O. Opris, M.L. Soran, **I. Lung**, I. Kacso, M. Stan, A.S. Porav, F. Copaciu. Testing the efficiency of carbon nanotubes for removal of antibiotics from aqueous solutions. *15th International Symposium – Prospects for the 3rd Millennium Agriculture*, September 29 – 1 October, 2016, Cluj-Napoca, Romania.
54. O. Opris, M.L. Soran, **I. Lung**, M. Stan, I. Kacso, D. Lazar, C. Leostean, O. Pana, A.S. Porav, T.D. Silipas. Catalytic activity evaluation of MnO₂ nanoparticles obtained with plant extracts. *15th International Symposium – Prospects for the 3rd Millennium Agriculture*, September 29 – 1 October, 2016, Cluj-Napoca, Romania.
55. **I. Lung**, M.L. Soran, M. Stan, O. Opris, I. Kacso, C. Leostean, M. Stefan, O. Pana. Synthesis and characterization of nanoparticles based on iron and manganese oxides. *16th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2016)*, July 7-9, 2016, Constanta, Romania.
56. **I. Lung**, M. Stan, O. Opris, M.L. Soran, C. Leostean, F. Copaciu, S.A. Porav. Application Of Magnetite Nanoparticles Synthesized Using Agricultural Sources For Removal Of Lanasyne Red Dye. *The Fourth Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2016"*, June 29 – 1 July, 2016, Brasov, Romania.
57. M. Stan, **I. Lung**, M.L. Soran, C. Leostean, T.D. Silipas, S.A. Porav. Magnetic Iron Oxide (Fe₃O₄) Nanoparticles From Agro-Wastes For Removal Of Antibiotic Pollutants From Waters. *The Fourth Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2016"*, June 29 – 1 July, 2016, Brasov, Romania.
58. O. Opris, **I. Lung**, M.R.C. Trusca, M. Stan. Quantification of Some Antibiotics from Different Classes from Waste Waters. *7th International Conference on Environmental Science and Technology (ICEST 2016)*, June 10-12, 2016, Barcelona, Spain.
59. M.R.C. Trusca, O. Opris, **I. Lung**, M.L. Soran, V. Floare – Avram. Determination of Penicillins, Tetracyclines and Cephalosporins from Manure. *7th International Conference on Environmental Science and Technology (ICEST 2016)*, June 10-12, 2016, Barcelona, Spain.
60. M.R.C. Trusca, **I. Lung**, O. Opris, M.L. Soran. Antibiotics determination from waste waters. *10th Conference on Sustainable Development of Energy, Water and Environment Systems*, September 27 - 3 October, 2015, Dubrovnik, Croatia.
61. M.L. Soran, O. Opris, **I. Lung**, M.R.C. Trusca. Identification and quantification of antibiotics from manure used as biofertilizer. *10th Conference on Sustainable Development of Energy, Water and Environment Systems*, September 27 - 3 October, 2015, Dubrovnik, Croatia.
62. **I. Lung**, O. Opris, M.L. Soran. Determination of the most used antibiotics in Romania from environmental samples. *43rd International Symposium on High Performance Liquid Phase Separations and Related Techniques*, September 21-25, 2015, Beijing, China.
63. O. Opris, M.L. Soran, **I. Lung**. Optimization of antibiotics determination from manure. *43rd International Symposium on High Performance Liquid Phase Separations and Related Techniques*, September 21-25, 2015, Beijing, China.
64. M.L. Soran, **I. Lung**, M. Stan, O. Opris. The influence of microwaves generated by WLAN device on the polyphenolic compounds from *Lactuca sativa*. *10th International Conference "Processes in Isotopes and Molecules" PIM 2015*, September 23 – 25, Cluj-Napoca, Romania.
65. **I. Lung**, M.L. Soran, O. Opris, M. Stan. Antioxidant capacity of some aromatic plants and their synergistic activity. *10th International Conference "Processes in Isotopes and Molecules" PIM 2015*, September 23 – 25, Cluj-Napoca, Romania.
66. M.L. Soran, M. Stan, **I. Lung**, M.R.C. Trusca. The GSM Microwave Field Influence on Vitamin C and Polyphenols from Celery. *2nd International Congress on Energy Efficiency and Energy Related Materials (ENEFM2014)*, October 16-19, 2014, Oludeniz, Turkey.
67. M.L. Soran, M. Stan, **I. Lung**, M.R.C. Trusca. Microwave Field Effect on Polyphenolic Compounds from Aromatic Plants. *9th Conference on Sustainable Development of Energy, Water and Environments Systems*, September 20-27, 2014, Venice-Istanbul.
68. **I. Lung**, M.L. Soran, M. Stan. Effect of microwave field on total polyphenol and antioxidant activity of dill. *XVI YUCORR, Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, June 23 – 26, 2014, Tara Mountain, Republic of Serbia.
69. **I. Lung**, M.L. Soran, M. Stan, O. Opris. Myristicin and linalool content variation in microwave stressed aromatic plants. *XVI YUCORR, Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, June 23 – 26, 2014, Tara Mountain, Republic of Serbia.
70. M. Stan, M.L. Soran, **I. Lung**, L. Copolovici. The influence of microwave fields on volatile organic compounds from three Romanian aromatic plants. *XVI YUCORR, Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, June 23 – 26, 2014, Tara Mountain, Republic of Serbia.
71. M.L. Soran, M. Stan, **I. Lung**, L. Copolovici, M.R.C. Trusca. Microwave fields effect on the essential oils from some aromatic plants. *XVI YUCORR, Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, June 23 – 26, 2014, Tara Mountain, Republic of Serbia.

72. M.L. Soran, M. Stan, **I. Lung**, C. Varodi, M.R.C. Trusca. The Influence of Microwave Field on Vitamin C from Indigenous Seasoning Plants. *International Congress on Energy Efficiency and Energy Related Materials*, October 9-12, 2013, Kemer, Turkey.
73. M. Stan, M.L. Soran, C. Varodi, **I. Lung**, L. Copolovici, C. Marutoiu. Extraction and gas chromatographic determination of essential oils from three plant species of the *Apiaceae* family. *International Conference "Processes in Isotopes and Molecules" PIM 2013*, September 24 – 27, 2013, Cluj-Napoca, Romania.
74. M. L. Soran, M Stan, **I Lung**, O Opris. Quantification of ascorbic acid in parsley, dill and celery from Romania. *International Conference "Processes in Isotopes and Molecules" PIM 2013*, September 24 – 27, 2013, Cluj-Napoca, Romania.
75. **I. Lung**, M. Stan, M. L. Soran, O. Opris. Separation and identification of volatile compounds from *Petroselinum crispum* L. by thin layer chromatography. *International Conference "Processes in Isotopes and Molecules" PIM 2013*, September 24 – 27, 2013, Cluj-Napoca, Romania.
76. M. Stan, **I. Lung**, M.L. Soran. Determination of Essential Oils from *Anethum graveolens* L. by Thin Layer Chromatography. *The First Mediterranean Symposium on Medicinal and Aromatic Plants, MESMAP-2013*, April 17-20, 2013, Gazimagusa (Famagusta), Cyprus.
77. M.L. Soran, M. Stan, **I. Lung**. Determination of Essential Oils from Three Romanian Aromatic Herbs using Thin Layer Chromatography. *The First Mediterranean Symposium on Medicinal and Aromatic Plants, MESMAP-2013*, April 17-20, 2013, Gazimagusa (Famagusta), Cyprus.
78. **I. Lung**, M. Stan, M.L. Soran. Extraction and Determination of Essential Oils from Celery Using Modern Techniques. *The First Mediterranean Symposium on Medicinal and Aromatic Plants, MESMAP-2013*, April 17-20, 2013, Gazimagusa (Famagusta), Cyprus.
79. M.L. Soran, M. Stan, **I. Lung**, M.R.C. Trusca. HPLC Determination of Vitamin C from Indigenous Parsley Extracts Obtained by Different Extraction Techniques. *7th Conference on Sustainable Development of Energy, Water and Environment Systems*, July 1 – 7, 2012, Ohrida, Macedonia.
80. M.L. Soran, M. Stan, C. Varodi, **I. Lung**, C. Tudoran, M.R.C. Trusca. Determination of Vitamin C in Parsley Grown in the Microwave Field. *1st International Congress of Environmental Science and Technology; 1st National Congress of the Argentinean Society of Environmental Sciences and Technologies*, May 28 - 1 June, 2012, Mar del Plata, Argentine.
81. **I. Lung**, M.L. Soran, M. Stan, E. Surducan, C. Marutoiu. Determination of phenolic compounds from *Ocimum basilicum* L. by different extraction methods. *Second International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences IC-ANMBES*, May 24 – 27, 2012, Brasov, Romania.
82. M. Stan, **I. Lung**, M.L. Soran, C. Varodi, C. Marutoiu. Chromatographic identification and determination of essential oils from some indigenous spice plants. *Second International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences IC-ANMBES*, May 24 – 27, 2012, Brasov, Romania.
83. **I. Lung**, M. Stan, M.L. Soran, C. Varodi. GC-FID determination of essential oils from parsley extracts obtained by different extraction techniques. *Second International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences IC-ANMBES*, May 24 – 27, 2012, Brasov, Romania.
84. **I. Lung**, M.L. Soran, C. Matea, C. Bele. Change the antioxidant character of basil by growth in microwave field. *International Conference "Processes in Isotopes and Molecules" PIM 2011*, September 29 – 1 October, Cluj-Napoca, Romania.
85. M. Stan, M.L. Soran, C. Varodi, **I. Lung**. Identification of flavonoids from parsley extracts by HPLC analysis. *International Conference "Processes in Isotopes and Molecules" PIM 2011*, September 29 – 1 October, Cluj-Napoca, Romania.
86. M. Stan, M.L. Soran, C. Varodi, **I. Lung**. Determination of dill essential oil composition using modern extraction techniques. *Chemistry and Life*, September 14 – 16, 2011, Brno, Czech Republic.
87. S.C. Cobzac, N. Olah, D. Casoni, R.D. Briciu, **I. Bros**. Solvent extraction efficiency of flavonoids and polyphenols from *Satureja hortensis* L. by different techniques. *IC-ANMBES 2010*, June 18-20, 2010, Brasov, Romania.
88. M.L. Soran, S.C. Cobzac, C. Varodi, **I. Lung**, E. Surducan, V. Surducan. The extraction and chromatographic determination of the essentials oils from *Ocimum basilicum* L. by different techniques. *Processes in Isotopes and Molecules*, September 24 – 26, 2009, Cluj-Napoca, Romania.
89. V. Surducan, E. Surducan, **I. Lung**. The effect of colored light on *Ipomoea purpurea* growth. *Processes in Isotopes and Molecules*, September 24 – 26, 2009, Cluj-Napoca, Romania.
90. **I. Lung**, M.L. Soran, C. Cobzac. Flavonoids Identification by HPLC-MS from Different Extracts of Savory. *34th International Symposium on High-Performance Liquid Phase Separations and Related Techniques*, June 28 – 2 July, 2009, Dresda, Germany.
91. **I. Lung**, M.L. Soran, C. Cobzac. Essentials Oils Determination from *Satureja Hortensis* L. By Chromatographic Techniques. *34th International Symposium on High-Performance Liquid Phase Separations and Related Techniques*, June 28 – 2 July, 2009, Dresda, Germany.
92. **I. Bros**, M.L. Soran, C. Bele, E. Surducan, V. Surducan, C. Tudoran. HPLC Analysis of flavonoids from *Satureja Hortensis* L. *4th meeting on Chemistry and Life 2008*, September 9-11, 2008, Brno, Czech Republic.
93. S.C. Cobzac, N. Olah, D. Casoni, B. Rodica, **I. Bros**. Solvent Extraction Efficiency of Flavonoids from *Satureja Hortensis* L. By Different Techniques. *18th International Solvent Extraction Conference*, September 15-19, 2008, Tucson, Arizona, United States.
94. **I. Bros**, M.L. Soran, I. Spinu, C. Cobzac. Different extraction techniques of flavonoid bioactive compounds from *Satureja hortensis* L. and HPTLC analysis. *International Symposium for High Performance Thin-Layer Chromatography*, June 11-13, 2008, Helsinki, Finland.
95. **I. Bros**, M.L. Soran, A. Lostun, C. Cobzac. Analysis of the essential oil of *Satureja hortensis* L. by HPTLC. *International Symposium for High Performance Thin-Layer Chromatography*, June 11-13, 2008, Helsinki, Finland.
96. **I. Bros**, M.L. Soran, R. Briciu, S. Cobzac. HPTLC quantification of some flavonoids from *Satureja hortensis* L. extracts obtained with different extraction techniques. *International Symposium for High Performance Thin-Layer Chromatography*, June 11-13, 2008, Helsinki, Finland.
97. **I. Bros**, M. Streza, M.L. Soran, Z. Moldovan, D. Dadarlat. Vegetable oils analysis by gas chromatography coupled with mass spectrometry. *5th Euro Fed Lipid Congress*, September 16-19, 2007, Gothenburg, Sweden.
98. **I. Bros**, M. Streza, M.L. Soran, V. Surducan, E. Surducan, I. Bratu, R. Pop, C. Neamtu, D. Dadarlat. Microwave degradation of sunflower oil. Complementary study by photopyroelectric and infrared spectroscopy, gas chromatography and fluorescence.

- International Conference „Agricultural and Food Sciences, Processes and Technologies”, Third edition, April 26-27, 2007, Sibiu, Romania.*
99. M. Streza, **I. Bros**, M.L. Soran, V. Surducan, E. Surducan, I. Bratu, I. Kacso, S.I. Farcas, C. Neamtu, D. Dadarlat. Photothermal methods applied for investigation of early spoilage of some vegetable oils. *International Conference „Agricultural and Food Sciences, Processes and Technologies”, Third edition, April 26-27, 2007, Sibiu, Romania.*
 100. **I. Bros**, M.L. Soran, A. Nan, J. Leistner. The analysis of olive and corn oils composition by high-performance liquid chromatography. *5th International Conference of the Chemical Societies of the South-East European Countries (ICOSECS 5) & The XIX Congress of the Chemists and Technologists of Macedonia, September 10-14, 2006, Ohrida, Macedonia.*
 101. **I. Bros**, E. Surducan, V. Surducan, C. Neamtu. Dynamic processing of materials in microwave power field – experimental procedure and apparatus. *Advances in Microwave-Assisted Organic Synthesis, MAOS 2006 – Conference and Exhibition, August 26-27, 2006, Budapest, Hungary.*
 102. M.L. Soran, M. Curtui, **I. Bros**, A. Soran. TLC Separation of U(VI), Th(IV), Co(II), Ni(II) and Cu(II) on Various Stationary Phases Using HDEHDTP as Complexing Agent. *XXI International Symposium on Physico-Chemical Methods of Separation, July 2-5, 2006, Torun, Poland.*
 103. **I. Bros**, M.L. Soran, F. Tusa, E. Surducan, V. Surducan. Composition analysis of inland sunflower and corn oils by gas-chromatography. *XXI International Symposium on Physico-Chemical Methods of Separation, July 2-5, 2006, Torun, Poland.*

Papers presented at national conferences:

1. S.I. Polianciuc, A. Ciorîță, M.L. Soran, **I. Lung**, A.E. Gurzu, M.G. Ștefan, B. Kiss, F. Loghin. Occurrence of antibiotics and antibiotic resistance profile of isolated bacteria in influent and effluent wastewaters. *Zilele Universității de Medicină și Farmacie „Iuliu Haieganu” 2022, December 5-9, 2022, Cluj-Napoca.*
2. S.E. Pojar, A. Ciorîță, S. Tripon, L. Soran, **I. Lung**, S. Macavei, M. Pârvu. *Berberis vulgaris* L. stem extract used for the green synthesis of copper nanoparticles with potential applications in phytotherapy. *A VII-a ediție a simpozionului BIO.T.A. – Biodiversitate Tradiții și Actualitate, November 19-20, 2021, Cluj-Napoca.*
3. M. Streza, **I. Bros**, M.L. Soran, J. Leistner, N. Dadarlat, C. Neamtu. Sunflower oil degradation - study by chromatographic methods and accurate photopyroelectric calorimetry. *Isotopic and Molecular Processes, September 20-22, 2007, Cluj-Napoca.*
4. **I. Bros**, S. Cobzac, E. Surducan, V. Surducan, T. Hodisan. Determination of optimal conditions for microwave-assisted extraction of bioactive compounds from *Satureja hortensis* L. *Isotopic and Molecular Processes, September 20-22, 2007, Cluj-Napoca.*
5. M. Streza, **I. Bros**, M.L. Soran, F. Tusa. Determination of oil adulteration by gas chromatography and photopyroelectric method. *9th National Conference on Chemistry, October 4-6, 2006, Calimanesti-Caciulata.*
6. **I. Bros**, M.L. Soran, V. Surducan, E. Surducan. Some pesticides separation by TLC in microwave field. *9th National Conference on Chemistry, October 4-6, 2006, Calimanesti-Caciulata.*
7. **I. Bros**, C. Neamtu, V. Surducan, E. Surducan. Microwaves liquid-probe effective absorption measurement using microwave power calorimetric method. *IVth Conference with International Participation on Isotopic and Molecular Processes, September 22-24, 2005, Cluj-Napoca.*
8. M. Moldovan, **I. Bros**, S. Cobzac, E. Surducan, V. Surducan, T. Hodisan. Analysis of polyphenols from plant extracts. *IVth Conference with International Participation on Isotopic and Molecular Processes, September 22-24, 2005, Cluj-Napoca.*
9. S. Cobzac, M. Moldovan, **I. Bros**, E. Surducan, S. Gocan. Microwave extraction of bioactive compounds from *Geranium Herba*. *Advanced Spectroscopies on Biomedical and Nanostructured Systems Conference, September 19-22, 2004, Cluj-Napoca.*
10. **I. Bros**, M. Moldovan, S. Cobzac, E. Surducan, V. Surducan, T. Hodisan. Microwave calorimetry studies for plant extraction application. *Advanced Spectroscopies on Biomedical and Nanostructured Systems Conference, September 19-22, 2004, Cluj-Napoca.*

Book or Book Chapters:

1. M. L. Soran, O. Opris, **I. Lung**. Chapter 3: Investigation of environmental pollution with antibiotics, in Methodological guide for monitoring antibiotics and antibiotic resistance in the environment, edited by, Cristian Coman în Romanian (pp. 63-77) and English (pp. 237-251), **2016**. ©Accent, Cluj-Napoca. ISBN 978-606-561-165-8.

Date: 16.01.2023

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