

PERSONAL INFORMATION

Maria-Loredana Soran



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Sex Female | Date of birth 04/03/1976 | Nationality Romanian

POSITION WITHIN THE GRANT/PROJECT

Team leader

WORK EXPERIENCE

 2017-present **Scientific Researcher I**

 2010-2017 **Scientific Researcher II**

National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Street, 400293, Cluj-Napoca, Romania

- Separation and determination of various compounds by high-performance liquid chromatography (HPLC) and thin layer chromatography (TLC); extraction techniques; extraction of bioactive compounds from plants by classical and modern methods; influence of stress factors on plants; water decontamination using different nanoparticle systems; nanoparticle synthesis and hybrid systems with controlled structure and properties (e.g Fe @ Au core-shell systems, CoPt alloys, FePt in L10 phase, etc.) using sol-gel method, polyol, reverse micelle method; synthesis of nanomaterials using environmentally friendly raw materials; synthesis and testing of catalysts in order to obtain biofuels; preparation of project documentation.

[Business or sector](#) Research

 May 2006-2010 **Scientific Researcher III**

National Institute for Research and Development of Isotopic and Molecular Technologies , 67-103 Donat Street, 400293, Cluj-Napoca, Romania

- Separation and determination of various compounds by HPLC and TLC; extraction techniques; extraction of bioactive compounds from plants by classical and modern methods; the influence of stress factors on plants; synthesis of nanoparticles and hybrid systems with controlled structure and properties (e.g core-shell systems of Fe @ Au , Fe @ Pt, Fe₃O₄ @ Au, magnetic nanoparticles coated with polymer, etc.) using sol-gel method, polyol, reverse micelle method; preparation of project documentation.

[Business or sector](#) Research

 October 2004-May 2006 **Scientific Researcher**

National Institute for Research and Development of Isotopic and Molecular Technologies , 67-103 Donat Street, 400293, Cluj-Napoca, Romania

- Separation and determination of various compounds by HPLC and TLC; extraction techniques; extraction of bioactive compounds from plants by classical and modern methods; the influence of stress factors on plants; synthesis of nanoparticles and hybrid systems with controlled structure and properties (e.g core-shell systems of Fe @ Au, Fe @ Pt, Fe₃O₄ @ Au, magnetic nanoparticles coated with polymer, etc.) using sol-gel method, polyol, reverse micelle method; preparation of project documentation.

[Business or sector](#) Research

 January 2002-October 2004 **Scientific Researcher**

"Raluca Ripan" Institute for Research in Chemistry, 30 Fântânele Street, 400294, Cluj-Napoca, Romania

- Separation and determination of different classes of compounds by HPLC and TLC; microproduction activity (realization of chromatographic plates covered with different stationary phases); preparation of the documents necessary for the project proposals; elaboration of the reports.

- 2000-January 2002 **Research Assistant**
 "Raluca Ripan" Institute for Research in Chemistry, 30 Fantanele Street, 400294, Cluj-Napoca, Romania
 ▪ Separation and determination of different classes of compounds by HPLC and TLC; microproduction activity (realization of chromatographic plates covered with different stationary phases).
- September 1999- 2000 **Teacher**
 Forest Sch. Group, 2 Izvoarelor Street, Câmpeni, Romania
 Business or sector Didactic activity

EDUCATION AND TRAINING

- 2018 **Habilitation in Environmental Engineering**
- 1999-2005 **PhD in Chemistry** 8EQF
 "Babeş-Bolyai" University, Cluj-Napoca, Faculty of Chemistry and Chemical Engineering
- 1998-1999 **Master degree - Speciality Organometallic and coordinative chemistry** 7EQF
 "Babeş-Bolyai" University, Cluj-Napoca, Faculty of Chemistry and Chemical Engineering
- 1994-1998 **BSc in Chemistry - Physics** 6EQF
 "Babeş-Bolyai" University, Cluj-Napoca, Faculty of Chemistry and Chemical Engineering
- 1990-1994 **Baccalaureate Diploma** 4EQF
 "Avram Iancu" Theoretical High School, Câmpeni

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B2
French	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

- Communication skills**
- Communication skills and ability to work in a team gained through the scientific collaborations with research teams from Romania and abroad
- Organisational / managerial skills**
- Good organizer and resource manager; understand the organizational culture;
 - Head of research team "Bioactive compounds and nanostructures" of 7 people (2014-2018)
 - Good managerial skills acquired through the coordination of the research teams within the projects in which she was and is director / responsible

Job-related skills Preparation of tender books and analysis of quotations for equipment within several research projects. Analysis of quotations for laboratory glassware and supplies, inventory, equipment as well as track of spending and acquisitions for the projects in charge as director

Participation at courses: Application Training for Shimadzu LCMS and LCMS Solution Software (Vienna, March 2009, 16 – 20); The specialists forming in ISO 17025 for testing/analyses laboratory (Cluj-Napoca, 19 – 21.06.2000).

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Basic user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Other skills

- good command of Borwin, Adobe Photoshop, Paint, Chemwin, ACD See, Internet documentation, Corel Draw, LC Solution, Wincats
- Coordination of license papers at the Faculty of Chemistry and Chemical Engineering
- Reviewer at various international ISI listed journals, such as: Science of the Total Environment, Journal of Chromatography, Journal of Liquid Chromatography & Related Technologies, African Journal of Microbiology Research, Journal of Essential Oils - Bearing Plant

Publications

Summary of publications (https://www.researchgate.net/profile/Maria-Loredana_Soran, <https://publons.com/researcher/2951668/maria-loredana-soran/>)

- Published articles: 58 in ISI indexed journals, 3 in the volume "Encyclopedia of Chromatography", 19 in ISI non-indexed journals, 27 in proceedings
- Books: 1;
- Chapters in English and Romanian, in books published in the country: 2
- Participation in conferences: more than 148 internationals and 16 nationals

Patents

1 patent - E. Surducun, V. Surducun, Soran Maria Loredana, Bros Ildikó, "Instalație de separare a compușilor chimici prin cromatografie în prezența câmpului de microunde de putere"/ Installation for separation of the chemical compounds by chromatography in the presence of the power microwave field RO 123363 / 28.10.2011

2 patents in the Republic of Moldova (►“*Procedure for the Functional Cheese Cream*”, Ghendov-Mosanu A., Popescu L., Sturza R., Lung I., Opris O., Soran L., MD 1290 Z 2019.06.30; ► “*Procedure for making functional cheese dessert*”, Ghendov-Mosanu A., Popescu L., Sturza R., Lung I., Opris O., Soran L., Stan M., MD 1289 Z 2019.06.30) and also applied in Romania

Projects

Director / responsible for 8 projects:

1. CEEX C-2995 / 11.10.2005, Separation and determination of certain metals from water samples, using dithiophosphoric derivatives as complexing agents (2005 – 2007)
 2. CEEX 1433/27.04.2006, Quality analysis of vegetable oils by applying an assembly of performing chromatographic and optothermal methods (2006 – 2008)
 3. PNII 51-098 / 2007, Microwave influence on bioactive compounds from inland plants (2007 – 2010)
 4. PN2-RU-TE 76/2011, Effects of microwave fields on volatile oils and secondary metabolites of some indigene plants (2011 – 2014)
 5. EEA Grants, 3499/20.05.2015, Methodological guide for monitoring antibiotic residues and antimicrobial resistance in the environment as a supporting instrument for an enhanced quality management of surface waters and groundwater (2015 – 2016)
 6. 35/BM/19.09.2016, The substitution of the synthetic food additives with bio-active components extracted from natural renewable resources (2016 – 2018)
 7. 18 / 01.09.2016, Increasing technological and knowledge transfer capacity of INCDTIM Cluj in the field of bio-economy TTC-ITIM; Subsidiary contract 269 / 08.06.2018, Cosmetic products with photoprotective activity, based on herbal extracts
 8. The framework of Romanian-JINR cooperation (Order 395-30/27.05.2019; 396-55/27.05.2019 and Order 397-57/27.05.2019), title: The impact assessment of metal / metal oxide nanoparticles on wheat
- Member in research team of over 36 de projects

Honours and awards

Excellence Award and the gold medal at the International Exhibition of Research, Innovation and Invention, PRO INVENT, March 21-23, 2018, Cluj-Napoca, Romania, for: "The process for obtaining polyphenols from grape marc", authors: R. Sturza, A. Ghendov-Moşanu, E. Cristea, A. Patraş, I. Lung, O.I. Opriş, M.C. Stan, M.L. Soran, V. Popovici

Excellence Award and the gold medal at the 22nd International Exhibition of Inventics, INVENTICA 2018, June 27-29, Iaşi, Romania, for: "Process for obtaining polyphenols from grape marc", authors: R. Sturza, A. Ghendov-Moşanu, E. Cristea, A. Patraş, V. Popovici, I. Lung, O.I. Opriş, M.C. Stan, M.L. Soran

Diploma of bronze medal at 11th edition of EUROINVENT-European Exhibition of Creativity and Innovation, May 16-18, 2019, Iaşi, Romania, for: "Process for producing a functional curd dessert", authors: A. Ghendov-Moşanu, L. Popescu, R. Sturza, I. Lung, O.I. Opriş, M.C. Stan, M.L. Soran

Innovation Award from "Carol Davila" University of Medicine and Pharmacy Bucharest, in recognition of the outstanding contribution to the 11th edition of EUROINVENT-European Exhibition of Creativity and Innovation, May 16-18, 2019, Iaşi, Romania, for: "Process for producing a functional curd dessert", authors: A. Ghendov-Moşanu, L. Popescu, R. Sturza, I. Lung, O.I. Opriş, M.C. Stan, M.L. Soran

Best presentation award at XIII. International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering ICABBBE, October 21-22, 2019, Athens, Greece, for: "The Influence of Ibuprofen, Diclofenac and Naproxen on Composition and Ultrastructural Characteristics of *Atriplex patula* and *Spinacia oleracea*", authors: O. Opriş, I. Lung, M.L. Soran, A. Ciorîţă, L. Copolovici

First Prize obtained at the International Conference "Several Aspects of Biology, Chemistry, Informatics, Mathematics and Physics", November 11-13, 2005, Oradea, Romania.

First prize (best poster) obtained at the XXI International Symposium on Physical-Chemical Methods of Separation, July 2-5, 2006, Torun, Poland, with the paper entitled "TLC Separation of U(VI), Th(IV), Co(II), Ni(II) and Cu(II) on Various Stationary Phases Using HDEHDTP as Complexing Agent".

Excellence Prize, Silver Medal and Excellence Prize and PROINVENT Medal at the International Exhibition of Research, Innovation and Invention, PROINVENT seventh edition, Cluj-Napoca, 2009, for "group of inventions" consisting of:

- "Method and installation for processing dynamics of a substance in power microwave field" by E. Surducan, V. Surducan, Patent: RO 122063 B1 /28.11.2008;

- "Stimulating the development of plants in the microwave field" by E. Surducan, V. Surducan, A. Halmagyi, Patent application: A00429 / 09.06.2008;

- "Installation for separation of chemical compounds by chromatography in the presence of the microwave power field" by: E. Surducan, V. Surducan, **Soran Maria Loredana**, Bros Ildiko, Patent: RO-A / 00833 -06.12.2007.

Special Prize of the Scientific Research Authority, 2nd Prize, A11 Section - Basic Science, "Microwave interaction with molecular and biomolecular systems" by: E. Surducan, V. Surducan, V. Tosa, I. Bros, **M.L. Soran**.

Memberships

Member of Professional Associations: Chromatography Society, Romanian Society of Chemistry, Society of Separation Science

References

Citations

More than 300 in ISI and BDIs indexed journals (according to ISI Web of Knowledge)

6 in books and chapters (according to Google Scholar)

ANNEXES

- List of papers

List of papers

I. Papers published in ISI journals:

1. Investigating the effects of non-steroidal anti-inflammatory drugs (NSAIDs) on the composition and ultrastructure of green leafy vegetables with important nutritional values, Ocsana Opriş, Ildikó Lung, **Maria-Loredana Soran**, Alexandra Ciorîţă, Lucian Copolovici, *Plant Physiology and Biochemistry* 151 (2020) 342–351
2. Impact Assessment of Acetaminophen (paracetamol) on *Phaseolus vulgaris* L. and *Triticum aestivum* L. Plants, O. Opris, I. Lung, **M. L. Soran**, L. Copolovici, D. M. Copolovici, M. C. Costa, *Rev. Chim.*, 71 (3), 2020, 549-557
3. Fondant Candies Enriched with Antioxidants from Aronia Berries and Grape Marc, O. Opris, I. Lung, **M.L. Soran**, R. Sturza, A. Ghendov-Mosanu, *Rev. chim.*, 2020, 71(2), 74-79.
4. Green synthesis of Ag-MnO₂ nanoparticles using *Chelidonium majus* and *Vinca minor* extracts and their *in vitro* cytotoxicity, A. Ciorîţă, M. Suciu, S. Macavei, I. Kacso, I. Lung, **M.L. Soran**, M. Pârvu, *Molecules*, 2020, 25, 819.
5. Effect of lipophilic sea buckthorn extract on cream cheese properties, A. Ghendov-Moşanu, R. Sturza, O. Opriş, I. Lung, L. Popescu, V. Popovici, **M.L. Soran**, A. Patraş, *Journal of Food Science and Technology*, 2020, 57(2), 628-637.
6. Green Synthesis, Characterization and Test of MnO₂ Nanoparticles as Catalyst in Biofuel Production from Grape Residue and Seeds Oil, A. Stegarescu, I. Lung, C. Leoştean, I. Kacso, O. Opriş, M. D. Lazăr, L. Copolovici, S. Guţoiu, M. Stan, A. Popa, O. Pană, A. S. Porav, **M.L. Soran**, *Waste and Biomass Valorization*, 2019, <https://doi.org/10.1007/s12649-019-00805-8>
7. 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), O. Opriş, A. Ciorîţă, **M.L. Soran**, I. Lung, D. Copolovici, L. Copolovici, *Ecotoxicology*, 2019, Volume: 28(6), 631-642 IF 2.618
8. Starch-coated green synthesized magnetite nanoparticles for removal of textile dye Optilan Blue from aqueous media, 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, *Journal of the Taiwan institute of chemical engineers*, 2019, 100, 65-73, IF 3.834
9. Interplay between metabolic and thyroid parameters in obese pubertal children. Does visceral adipose tissue make the first move?, N. Răcăţianu, N. V. Leach, S. D. Bolboacă, **M. L. Soran**, O. Opriş, E. Dronca, A. Valea, C. Ghervan, *Acta Clinica Belgica*, 2019, <https://doi.org/10.1080/17843286.2019.1660021> IF 0.96
10. Microwave irradiation effect on polyphenol content and antioxidant activity of basil, Ildiko Lung, **Maria-Loredana Soran**, Ocsana Opriş, Manuela Stan, Constantin Bele, *Studia UBB Chemia*, LXIII, 3, 2018, 87-94. IF 0.305
11. Green synthesized Fe₃O₄ nanoparticles for Lanasy Red azo dye removal from aqueous solutions, Lung I., **Soran M.L.**, Stan M., Opriş O., Copaciu F., Ştefan M., Lazăr M.D., Leoştean C., Porav A.S., *Revue Roumaine de Chimie*, 2018, 63(10), 965-970. IF 0.395
12. Evaluation of the Anti-Gout Potential of *Calluna vulgaris* L. (*Ericaceae*) in Rats, O. Vostinaru, E. Dinte, **M.L. Soran**, I. Lung, O. Opris, C. Mogosan, *Records of Natural Products*, 2018, 12(5), 432-444. IF 1.311
13. 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 Opris, **Maria-Loredana Soran**, Marin Senila, Maria Stefan, *Anal. Lett.*, 2018, 51(16), 2517-2529 doi 10.1080/00032719.2018.1446974. IF 1.206
14. Investigating antibiotics, antibiotic resistance genes, and microbial contaminants in groundwater in relation to the proximity of urban areas, E. Szekeres, C.M. Chiriac, A. Baricz, T. Szoke-Nagy, I. Lung, **M.L. Soran**, K. Rudi, N. Dragos, C. Coman, *Environmental Pollution*, 2018, 236, 734-744. IF 5.099
15. Disproportionate photosynthetic decline and inverse relationship between constitutive and induced volatile emissions upon feeding of *Quercus robur* leaves by large larvae of gypsy moth (*Lymantria dispar*), Lucian Copolovici, Andreea Pag, Astrid Kännaste, Adina Bodescu, Daniel Tomescu, Dana Copolovici, **Maria-Loredana Soran**, Ülo Niinemets, *Environmental and Experimental Botany* 2017, 138, 184–192. IF 4.369
16. The efficiency of the multi-walled carbon nanotubes used for antibiotics removal from wastewaters generated by animal farms, **Soran M.L.**, Opris O., Lung I, Kacso I., Porav A.S., Stan M., *Environmental Science and Pollution Research* 2017, 24(19), 16396–16406. IF 2.741
17. Abundance of antibiotics, antibiotic resistance genes and bacterial community composition in wastewater effluents from different Romanian hospitals, Edina Szekeres, Andreea Baricz, Cecilia Maria Chiriac, Anca Farkas, Ocsana Opris, **Maria-Loredana Soran**, Adrian-Stefan Andrei, Knut Rudi, Jose Luis Balcazar, Nicolae Dragos, Cristian Coman, *Environmental Pollution*, 2017, 225, 304-315. IF 5.099
18. Synthesis and spectroscopic characterization of hybrid magnetic nanoparticles, based on Fe@Au and Pyrrole, M.L. Soran, O. Pană, A. Nan, C. Leoştean, I. Bratu, *STUDIA UBB CHEMIA*, LXII, 2, Tom I, 2017, 105-112, DOI:10.24193/subchem.2017.2.08

19. Removal of antibiotics from aqueous solutions by green synthesized magnetite nanoparticles with selected agro-waste extracts, M. Stan, I. Lung, **M. L. Soran**, C. Leostean, A. Popa, M. Stefan, M. D. Lazar, O. Opris, T.D. Silipas, A. S. Porav, *Process Safety and Environmental Protection*, 2017, 107, 357-372, doi 10.1016/j.psep.2017.03.003. IF 2,078
20. Comparison of different extraction techniques for the evaluation of polyphenols content in summer savory extracts, Casoni, D; Olah, N; **Soran, L**; Cobzac, SCA, *STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA*, 2017, 62 (3), 45-56
21. Determination of Antibiotics in Surface Water by Solid-Phase Extraction and High-Performance Liquid Chromatography with Diode Array and Mass Spectrometry Detection, **M.L. Soran**, Ildikó Lung, Ocsana Opris, Veronica Floare-Avram, and Cristian Coman, *Anal. Lett.*, 2016, 50(7), 1209 - 1218, doi: 10.1080/00032719.2016.1209516. IF 1.150
22. The optimization of the antibiotics extraction from wastewaters and manure using Box-Behnken experimental design, Opris O., **Soran M. L.**, Lung I., Truşcă M. R. C., Szoke-Nagy T., Coman C., *International Journal of Environmental Science and Technology*, 2016, DOI 10.1007/s13762-016-1165-2 14(3), 473 – 480. IF 1.915
23. Induction of stress volatiles and changes in essential oils content and composition upon microwave exposure in the *Ocimum basilicum* aromatic plant, Lung I, **Soran M. L.**, Opris O., Truşcă M. R. C., Niinemets Ü., Copolovici L., *Science of the Total Environment*, 2016, 569–570, 489–495. IF 4.900
24. Isotopic composition influence of irrigation water on some aromatic plants, R. Puşcaş, D.A. Măgdaş, I. Lung, G. Cristea, **M.L. Soran**, I. Feher, A. Dehelean, *Studia Universitatis "Babes-Bolyai", Chemia*, 2016, LXI, 4, 31 – 42. IF 0.244
25. Determination of Myristicin and Linalool in Plants Exposed to Microwave Radiation by High-Performance Liquid Chromatography, I. Lung, M. Stan, O. Opris, **M.L. Soran**, *Analytical letters*, 2015, 48(4), 567-574. IF 1.088
26. Influence of microwave frequency electromagnetic radiation on terpene emission and content in aromatic plants, **Maria L. Soran**, Manuela Stan, Ulo Niinemets, Lucian Copolovici, *Journal of Plant Physiology* 2014, 171(15):1436-43. IF 2.557
27. Influence of microwave field on the ascorbic acid content in leaves of some common aromatic plants in Romania, Manuela Stan, **Maria L. Soran**, Codruța Varodi, Ildiko Lung, *Studia Universitatis Babes-Bolyai, Chemia* 2014, LIX, 1, p. 125-133. IF 0.191
28. High performance thin-layer chromatographic quantification of myristicin and linalool from leaf extracts of microwave-irradiated parsley, dill and celery, Manuela Stan, Ocsana Opris, Ildiko Lung, **Maria L. Soran**, *Journal of planar chromatography – Mod. TLC* 2014, 27(2), 97-101. IF 0.670
29. Synthesis and characterization of Fe₃O₄@ZnS and Fe₃O₄@Au@ZnS core-shell nanoparticles, M. Stefan, C. Leostean, O. Pana, **M.L. Soran**, R.C. Suci, E. Gautron, O. Chauvet, *Applied Surface Science* 2014, 288, 180-192. IF 2.711
30. High-performance thin-layer chromatographic quantification of some essential oils from *Anethum graveolens* extracts, Manuela Stan, Ildiko Lung, Ocsana Opris, **Maria L. Soran**, *Journal of planar chromatography – Mod. TLC* 2014, 27(1), 33-37. IF 0.670
31. Extraction and HPLC determination of the ascorbic acid content of three indigenous spice plants, M. Stan, **M. L. Soran**, and C. Marutoiu *Journal of Analytical Chemistry*, 2014, 69(10), 998-1002. IF 0.479
32. Grape seed extract as photochemopreventive agent against UVB-induced skin cancer, M. Perde-Schrepler, G. Chereches, I. Brie, C. Tatomir, I.D. Postescu, **L. Soran**, A. Filip, *Journal of Photochemistry and Photobiology B: Biology*, 2013, 118, 16-21. IF 2.803
33. Determination of some frequently used antibiotics in waste waters using solid phase extraction followed by high performance liquid chromatography with diode array and mass spectrometry detection, Ocsana Opris, **Maria-Loredana Soran**, Virginia Coman, Florina Copaciu, Dumitru Ristoiu, *Central European Journal of Chemistry* 2013, 11(8), 1343-1351. IF 1.329
34. Synthesis and characterization of Fe–Pt based multishell magnetic nanoparticles, O. Pana, C. Leostean, **M.L. Soran**, M. Stefan, S. Macavei, S. Gutoiu, V. Pop, O. Chauvet, *J. Alloy. Compd.* 2013, 574, 477-485. IF 2,726
35. Effect of microwave irradiation on polyphenolic compounds from *Satureja hortensis* L., I. Lung, **M.L. Soran**, C. Tudoran, C. Măruțoiu, *Central European Journal of Chemistry* 2013, 11(4), 535-541. IF 1.329
36. Influence of nine antibiotics on key secondary metabolites and physiological characteristics in *Triticum aestivum*: leaf volatiles as a promising new tool to assess toxicity, Ocsana Opris, Florina Copaciu, **Maria Loredana Soran**, Dumitru Ristoiu, Ulo Niinemets, Lucian Copolovici, *Ecotoxicology and Environmental Safety* 2013, 87, 70–79. IF 2.482
37. Separation and identification of some non-steroidal anti-inflammatory drugs using TLC and HPLC-MS, B. Tița, O.F. Măruțoiu, D. Tița, C. Măruțoiu, **M.L. Soran**, Z. Moldovan, *Journal of Planar Chromatography – Mod. TLC* 2012, 25(6), 523-527. IF 0.955
38. Interface charge transfer in polypyrrole coated perovskite manganite magnetic nanoparticles, O. Pana, **M.L. Soran**, C. Leostean, S. Macavei, E. Gautron, C.M. Teodorescu, N. Gheorghe, O. Chauvet, *Journal of Applied Physics*, 2012, 111(4), 044309 - 044309-8. IF 2.210
39. Essentials Oils Determination from *Satureja hortensis* L. by Chromatographic Techniques, **Maria - Loredana Soran**, Codruța Varodi, Simona Codruța Cobzac, Ildiko Lung, *Journal of Essential Oil – Bearing Plants*, 2011, 14(6), 699-707. IF 0.290

40. Comparative study of core-shell iron/iron oxide gold covered magnetic nanoparticles obtained in different conditions, C. Leostean, O. Pana, R. Turcu, **M.L. Soran**, S. Macavei, O. Chauvet, C. Payen, *J. Nanopart. Res.* 2011, 13, 6181-6192. IF 3.287
41. Synthesis and characterization of the core-shell Au covered LSMO manganite magnetic nanoparticles, O. Pana, R. Turcu, **M.L. Soran**, C. Leostean, E. Gautron, C. Payen, O. Chauvet, *Synth. Met.* 2010, 160, 1692-1698. IF 1.871
42. HPTLC Analysis of Thymol in Extracts of *Satureja hortensis* L. Obtained by Different Techniques, **M.L. Soran**, I. Lung, *Journal of Planar Chromatography – Mod. TLC* 2010, 23(5), 320-322. IF 1.247
43. Extraction and chromatographic determination of essential oils from *Ocimum basilicum* L. Leaves, **M. L. Soran**, S. C. Cobzac, C. Varodi, I. Lung, E. Surducan, V. Surducan, *Studia Universitatis "Babes-Bolyai", Chimia*, 2010, LV(3), 31-38. IF 0.231
44. Separation of Pesticides Mixture by Bidimensional HPTLC, C. Tigae, O.F. Marutoiu, N.G. Baghina, **M. L. Soran**, A. Simionescu, C. Marutoiu, *Revista de chimie*, 2009, 60(5), 494-496. IF 0.389
45. HPTLC Quantification of Some Flavonoids in Extracts of *Satureja hortensis* L. Obtained by Use of Different Techniques, Ildiko Bros, **Maria - Loredana Soran**, Rodica Domnica Briciu, Simona Codruta Cobzac, *Journal of Planar Chromatography – Mod. TLC*, 2009, 22(1), 25-28. IF 0.982
46. Microwave Assisted Thin-Layer Chromatography - an Improved Separation Technique, **Maria-Loredana Soran**, Ildikó Broş, Emanoil Surducan, and Vasile Surducan, *J. Planar Chromatogr.-Mod. TLC*, 2008, 21(4), 243-248. IF 0.982
47. Structure, morphology and magnetic properties of Fe–Au core-shell nanoparticles, O. Pana, C.M. Teodorescu, O. Chauvet, C. Payen, D. Macovei, R. Turcu, **M.L. Soran**, N. Aldea, L. Barbu, *Surface Science* 2007, 601, 4352–4357. IF 1.855
48. Use of Di(n-butyl) and Di(iso-butyl)dithiophosphoric acids as complexing agents in the TLC separation of some d and f transition metal ions, Maria Curtui, **Maria - Loredana Soran**, *J. Planar Chromatogr.-Mod. TLC*, 2007, 20, 153-158. IF 0.683
49. The Organophosphoric Ligands – Complexing Agents in Thin Layer Chromatography, **Maria - Loredana Soran**, Maria Curtui, Diana Gherman, *Revista de chimie*, 2007, 58(5), 447-450. IF 0.261
50. TLC Separation of Metal Ions Using Di(n-butyl)dithiophosphoric Acid and Neutral Organophosphorus Ligands, M. Curtui, **M.L. Soran**, *J. Planar Chromatogr.-Mod. TLC* 2006, 19, 310-314. IF 1.153
New polypyrrole – multi wall carbon nanotubes hybrid materials, R. Turcu, Al. Darabont, A. Nan, N. Aldea, D. Macovei, D. Bica, L. Vekas, O. Pana, **M.L. Soran**, A.A. Koos, L.P. Biro, *Journal of Optoelectronics and Advanced Materials*, 2006, 8(2), 643-647. IF 1.106
51. Separation of U(VI) and Th(IV) from Some Rare Earths by thin layer chromatography with Di(2-ethylhexyl)dithiophosphoric acid on silica gel, **M.L. Soran**, M. Curtui, C. Măruțoiu, *J. Liq. Chromatogr. & Rel. Techn., Special Issue on Thin Layer Chromatography*, 2005, 28(16), 2515-2524. IF 0.814
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2. Ascorbic acid determination from alcoholic and soft drinks by different techniques,
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2. Effects of non-steroidal anti-inflammatory drugs on the ultrastructure and composition of autochthonous vegetables, O. Opreș, **M.L. Soran**, I. Lung, A. Ciorîță, L. Copolovici 4th Edition of Global Conference on Plant Science and Molecular Biology, 19-21 septembrie, 2019, Londra, Marea Britanie.
3. 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 OPRIS, **Maria – Loredana SORAN**, 18th International Conference – Life Science for Sustainable Development, 26-28 September 2019, Cluj-Napoca, Romania
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6. Preparation and characterization of magnetic nanocomposites based on CNT/Fe₃O₄, with sorption properties, **A. Stegarescu**¹, M. L. Soran¹, I. Lung¹, O. Opris¹, S. Guțoiu¹, S. Porav¹, D. Lazăr¹, S. Pinteaa¹, C. Leoștean¹, O. Pană, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România
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17. Preparation of MnO₂/carbon nanotubes with sorption properties, Manuela Stan, Ildiko Lung, Adina Stegarescu, Ocsana Opris, Simona Gutoiu, **Maria-Loredana Soran**, Teofil-Danut Silipas, Cristian Leostean, Ovidiu Pana, Mihaela Diana Lazar, Alin Sebastian Porav, The Fifth Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2018", 23 May – 25 May 2018, Brasov, Romania
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