

## PERSONAL INFORMATION Maria-Loredana Soran



 67-103 Donat Street, Cluj-Napoca, 400293, Romania

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 loredana.soran@itim-cj.ro

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

## 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

2019-present **Member of the Doctoral School of Environmental Engineering, "Aurel Vlaicu" University of**  
**ad**

Type of activity: research and teaching

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, Fe<sub>3</sub>O<sub>4</sub> @ Au, magnetic nanoparticles coated with polymer, etc.) using sol-gel method, polyol, reverse micelle method; preparation of project documentation.

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, Fe<sub>3</sub>O<sub>4</sub> @ 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.

Business or sector Research, microproduction

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).

[Business or sector](#) Research, microproduction

 September 1999- 2000 **Teacher**

Forest Sch. Group, 2 Izvoarelor Street, Câmpeni, Romania

[Business or sector](#) Didactic activity

**EDUCATION AND TRAINING**

2018	<b>Habilitation in Environmental Engineering</b>	
1999-2005	<b>PhD in Chemistry</b>	8EQF
	"Babeş-Bolyai" University, Cluj-Napoca, Faculty of Chemistry and Chemical Engineering	
1998-1999	<b>Master degree - Speciality Organometallic and coordinative chemistry</b>	7EQF
	"Babeş-Bolyai" University, Cluj-Napoca, Faculty of Chemistry and Chemical Engineering	
1994-1998	<b>BSc in Chemistry - Physics</b>	6EQF
	"Babeş-Bolyai" University, Cluj-Napoca, Faculty of Chemistry and Chemical Engineering	
1990-1994	<b>Baccalaureate Diploma</b>	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
- Cours: Business Communication (organized by British Academy of Business and Communication, Business and Communication Research Center, 14.11.2019 – 24.02.2020)

**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
- Cours: Project Manager (organized by Soft Skills Training SRL, responsible national authorities Ministry of Labor, Family, Social Protection and the Elderly, National Authority for Qualifications, Ministry of National Education and Scientific Research, 12.04 – 15.04.2018)
- Cours: Strategic Management (organized by British Academy of Business and Communication, Business and Communication Research Center, 14.11.2019 – 24.02.2020)
- Cours: Innovation manager (organized by GEA Strategy & Consulting; responsible national authorities Ministry of Labor, Family, Social Protection and the Elderly, National Authority for Qualifications, Ministry of National Education and Scientific Research, 13.02.2017 – 17.02.2017)

**Job-related**

Preparation of tender books and analysis of quotations for equipment within several research projects.

- skills** 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](#)

- good command of Borwin, Adobe Photoshop, Paint, Chemwin, ACD See, Internet documentation, Corel Draw, LC Solution, Wincats

**Other skills**

- 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

**ADDITIONAL INFORMATION**
**Publications**

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

- Published articles: 76 in ISI indexed journals, 3 in the volume "Encyclopedia of Chromatography", 22 in non-ISI indexed journals, 27 in proceedings
- Books: 1;
- Chapters in English and Romanian, in books published in the country: 2
- Participation in conferences: 172 internationals and 17 nationals

**3 representative papers:**

1. The Effect of TiO<sub>2</sub> 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; <https://doi.org/10.3390/nano11123413>
2. Synthesis and characterization of Fe@FePt@SiO<sub>2</sub>@NH<sub>2</sub> nanoplatfrom 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
3. Evaluation of CNT-COOH/MnO<sub>2</sub>/Fe<sub>3</sub>O<sub>4</sub> 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

**Patents**

1 patent - E. Surducian, V. Surducian, **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

3 patents in the Republic of Moldova (► "Procedure for the Functional Cheese Cream", Ghendov-Mosanu A., Popescu L., Sturza R., Lung I., Opreș O., **Soran L.**, MD 1290 Z 2019.06.30; ► "Procedure for making functional cheese dessert", Ghendov-Mosanu A., Popescu L., Sturza R., Lung I., Opreș O., **Soran L.**, Stan M., MD 1289 Z 2019.06.30) and also applied in Romania; ► L. Popescu, A. Ghendov-Moșanu, R. Sturza, A. Patras, I. Lung, O.I Opreș, **M.L. Soran**, "Procedeu de fabricare a iaurtului cu valoare biologică înaltă", MD 1497/2020.06.18 (AGEPI).

1 patent application: **M.L.Soran**, I. Lung, O.I. Opreș, A.O. Stegarescu, R. Podea "Procedeu de fabricare a emulsiei cosmetice naturale cu factor de protecție solară" / Process for the manufacture of natural cosmetic emulsion with sun protection factor Cerere brevet A/00323 din 09.06.2020.

**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; 269/ 20.05.2020; 365/11.05.2021), titles: The impact assessment of metal / metal oxide nanoparticles on wheat; The impact assessment of metal/metal salts on crops

#### PD projects coordinated as a mentor :

1. PD 46 / 2022, Compozite noi din deșeuri biogenice de crustacee fără carotenoizi, cu adsorbție eficientă a poluanților de mediu (2022 – 2023) / New composites from carotenoid-free biogenic crustacean waste with efficient adsorption of environmental pollutants, project director Fran Nekvapil (Babeș – Bolyai University)
2. PD 188 / 14.06.2022, Matrici vitroase avansate pentru incorporarea eficienta a radionuclizilor (2022 – 2024) / Advanced glassy matrices for efficient incorporation of radionuclides, project director Mioara Zagrai (INCDTIM)

Member in research team of over 36 de projects

#### Honours and awards

##### 19 Awards :

**Excellence Award** at the European Exhibition of Creativity and Innovation EUROINVENT 2022, 26 - 28 may 2022, Iași, Romania, for „ Process of making yogurt with high biological value ”, authors: L. Popescu, A. Ghendov-Moșanu, R. Sturza, A. Patraș, I. Lung, O.I. Opreș, M.L. Soran

**Excellence Award and the gold medal** at the International Exhibition of Research, Innovation and Invention, „PRO INVENT 2021”, Edition XIX, October 20-22, 2021, Cluj-Napoca, Romania, for: “Process of making yogurt with high biological value”, authors: L. Popescu, A. Ghendov-Moșanu, R. Sturza, A. Patras, I. Lung, O.I Opreș, M.L. Soran

**Excellence Award and the silver medal** at the International Exhibition of Research, Innovation and Invention, „PRO INVENT 2021”, Edition XIX, October 20-22, 2021, Cluj-Napoca, Romania, for: “Process for manufacturing natural cosmetic emulsion with sun protection factor”, authors: M.L. Soran, I. Lung, O.I. Opreș, A.O. Stegarescu, R. Podea

**Diploma of bronze medal** at 12<sup>th</sup> edition of EUROINVENT-European Exhibition of Creativity and Innovation, ONLINE, May 23, 2020, Iași, Romania, for: “Process for producing a functional curd cream”, authors: A. Ghendov-Moșanu, L. Popescu, R. Sturza, I. Lung, O.I. Opreș, M.L. Soran

**Prize I** awarded at the Fair of Inventions and Innovations “Inovaliment 2020”, First edition, November 23-27, 2020, Romania, for: “ Process of manufacturing functional cream cheese”, authors: A. Ghendov-Moșanu, L. Popescu, R. Sturza, I. Lung, O.I. Opreș, M.L. Soran

**Mention** awarded at the Fair of Inventions and Innovations “Inovaliment 2020”, First edition, November 23-27, 2020, Romania, for: “Process of manufacturing functional cream cheese”, authors: A. Ghendov-Moșanu, L. Popescu, R. Sturza, I. Lung, O.I. Opreș, M.L. Soran

**Gold medal awarded at** the International Exhibition of Research, Innovation and Invention „ProInvent-2020”, Edition XVIII, , November 18-20, 2020, Cluj-Napoca, Romania, for: “Process for producing a functional curd dessert ”, authors: L. Popescu, A. Ghendov-Moșanu, R. Sturza, I. Lung, O.I. Opreș, M.L. Soran

**Diploma of bronze medal** at 12<sup>th</sup> edition of EUROINVENT-European Exhibition of Creativity and Innovation, May 23, 2020, Iași, Romania, for: “Process for producing a functional curd dessert”, authors: A. Ghendov-Moșanu, L. Popescu, R. Sturza, I. Lung, O.I. Opreș, M.C. Stan, M.L. Soran

**Silver medal at 16<sup>th</sup> INFOINVENT (EIS) International Exhibition and Excellence award and Gold medal** of National Institute for Research & Development in Chemistry and Petrochemistry, November 20-23, 2019, Chișinău, Moldova, for “Process of manufacturing functional cream cheese”, authors:A. Ghendov-Moșanu, Popescu L., Sturza R. – MD; Lung I., Opreș O.I., Soran M.L. – RO.

**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-Moșanu, E. Cristea, A. Patraș, I. Lung, O.I. Opreș, M.C. Stan, M.L. Soran, V. Popovici

**Excellence Award and the gold medal** at the 22<sup>nd</sup> International Exhibition of Inventions, INVENTICA 2018, June 27-29, Iași, Romania, for: “Process for obtaining polyphenols from grape marc”, authors:

R. Sturza, A. Ghendov-Moșanu, E. Cristea, A. Patraș, V. Popovici, I. Lung, O.I. Opreș, M.C. Stan, M.L. Soran

**Diploma of bronze medal** at 11<sup>th</sup> edition of EUROINVENT-European Exhibition of Creativity and Innovation, May 16-18, 2019, Iași, Romania, for: "Process for producing a functional curd dessert", authors: A. Ghendov-Moșanu, L. Popescu, R. Sturza, I. Lung, O.I. Opreș, 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, Iași, Romania, for: "Process for producing a functional curd dessert ", authors: A. Ghendov-Moșanu, L. Popescu, R. Sturza, I. Lung, O.I. Opreș, 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. Opreș, I. Lung, M.L. Soran, A. Ciorîță, 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 HDEHDP 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 CNATDCU, commission of Environmental engineering from 2020

Member of the Scientific council of INCDTIM from 2018

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

#### References

##### Citations

982 (according to ISI Web of Knowledge)

h = 16

## ANNEXES

- List of papers

Cluj-Napoca,  
17.01.2023

Dr. Habil. Soran Maria – Loredana

## 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/MnO<sub>2</sub>/Fe<sub>3</sub>O<sub>4</sub> 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/Fe<sub>3</sub>O<sub>4</sub> 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/Fe<sub>3</sub>O<sub>4</sub> and CNT-COOH/Fe<sub>3</sub>O<sub>4</sub>/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 TiO<sub>2</sub> 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/MnO<sub>2</sub>/Fe<sub>3</sub>O<sub>4</sub> 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@SiO<sub>2</sub>@NH<sub>2</sub>nanoplatform 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 Fe<sub>3</sub>O<sub>4</sub>/MnO<sub>2</sub> 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 spinose* 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/MnO<sub>2</sub>/Fe<sub>3</sub>O<sub>4</sub> 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. Răcățăianu, 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.
19. The crosstalk between insulin resistance, systemic inflammation, redox imbalance and the thyroid in subjects with obesity, Nicoleta Răcățăianu, Nicoleta Valentina Leach, Sorana D. Bolboacă, Maria Loredana Soran, Mirela Flonta, Ana Valea, Andrada-Luciana Lazăr, and Cristina Ghervan, *Journal of Mind and Medical Sciences*, **2021**, 8(1), art. 19, 139-148

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-MnO<sub>2</sub> 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. Patraș, Journal of Food Science and Technology, 2020, 57(2), 628-637.
23. Spin transfer and proximity effects in case of FePt (L1(0)) nanoparticles coated with P3HT, Gutoiu, S; Leostean, C; **Soran, M.L.**; Stefan, M; Macavei, S; Toloman, D; Popa, A; Stegarescu, A; Pana, O, AIP ADVANCES, 2020 (10), 55215.
24. Green Synthesis, Characterization and Test of MnO<sub>2</sub> Nanoparticles as Catalyst in Biofuel Production from Grape Residue and Seeds Oil, A. Stegarescu, I. Lung, C. Leostean, I. Kacso, O. Opreș, M. D. Lazăr, L. Copolovici, S. Guțoiu, M. Stan, A. Popa, O. Pană, A. S. Porav, **M.L. Soran\***, Waste and Biomass Valorization, 2019, 11(9), 5003-5013.
25. 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. Opreș, A. Ciorîță, **M.L. Soran**, I. Lung, D. Copolovici, L. Copolovici, Ecotoxicology, 2019, 28(6), 631-642.
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2. Synthesis and characterization of nanocomposites based on carbon nanostructures used for decontamination of aqueous solutions, Soran M.L., Lung I., Stegarescu A., **Opris O.**, Polianciuc S.I., *The 21<sup>st</sup> International Conference "LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT" 15-17 septembrie, 2022, Cluj-Napoca, Romania*
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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