

INFORMAȚII PERSONALE

Soran Maria-Loredana


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Sexul Feminin | Data nașterii 04/03/1976 | Naționalitatea Romana

EXPERIENȚA PROFESIONALĂ

 2017 – prezent **Cercetător științific I**

 2010 – 2017 **Cercetător științific II**

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Izotopice și Moleculare, Departamentul Fizica Sistemelor Nanostructurate, Str. Donat nr. 67-103, 400293 Cluj-Napoca

Sinteza de nanoparticule și sisteme hibride cu structura și proprietăți controlate (de exemplu: nanotuburi de carbon modificate cu oxizi metalici, sisteme core-shell de Fe@Au, aliaje CoPt, FePt în faza L1₀ etc) utilizând metode sol-gel, polioli, metoda micelilor inverse, sinteză de nanomateriale utilizând materii prime prietenoase față de mediu, sinteza și testare catalizatori în scopul obținerii biocombustibililor, preparare compozite cu aplicații în medicină (hipertermie, transport medicamente, activitate antibacteriană), depoluarea apelor utilizând diferite sisteme de nanomateriale, separarea și determinarea diferiților compuși prin cromatografie de lichide de înaltă performanță (HPLC) și cromatografie pe strat subțire (TLC); tehnici de extracție, extracția compușilor bioactivi din plante prin metode clasice și moderne, întocmire documentație proiecte, influența factorilor de stres asupra plantelor.

Tipul activității: cercetare

 2019 - prezent **Membru al Școlii Doctorale de Ingineria mediului, Universitatea “Aurel Vlaicu” din Arad**

Tipul activității: cercetare și didactică

 Mai 2006 - 2010 **Cercetător științific III**

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Izotopice și Moleculare, Departamentul Fizica Sistemelor Nanostructurate, Str. Donat nr. 67-103, 400293 Cluj-Napoca

Separarea și determinarea diferiților compuși prin HPLC și TLC; tehnici de extracție, extracția compușilor bioactivi din plante prin metode clasice și moderne, influența factorilor de stres asupra plantelor; sinteza de nanoparticule și sisteme hibride cu structura și proprietăți controlate (de exemplu: sisteme core-shell de Fe@Au, Fe@Pt, Fe₃O₄@Au, nanoparticule magnetice acoperite cu polimer etc) utilizând metode sol-gel, polioli, metoda micelilor inverse, întocmire documentație proiecte.

Tipul activității: cercetare

 Octombrie 2004 **Cercetător științific**

– Mai 2006

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Izotopice și Moleculare, Departamentul Fizica Sistemelor Nanostructurate Multifuncționale, Str. Donat nr. 67-103, 400293 Cluj-Napoca

Separarea și determinarea diferiților compuși prin HPLC și TLC; tehnici de extracție, extracția compușilor bioactivi din plante prin metode clasice și moderne, influența factorilor de stres asupra plantelor; sinteza de nanoparticule și sisteme hibride cu structura și proprietăți controlate (de exemplu: sisteme core-shell de Fe@Au, Fe@Pt, Fe₃O₄@Au, nanoparticule magnetice acoperite cu polimer etc) utilizând metode sol-gel, polioli, metoda micelilor inverse, întocmire documentație proiecte.

Tipul activității: cercetare

 Ianuarie 2002 – **Cercetător științific**

Octombrie 2004

Institutul de Cercetări în Chimie “Raluca Ripan, str. Fântânele nr. 30, 400294 Cluj-Napoca

Separarea și determinarea diferitor clase de compuși prin HPLC și TLC, activitate de microproducție (realizarea plăcilor cromatografice acoperite cu diferite faze staționare), întocmirea documentelor necesare propunerilor de proiecte, întocmirii raportărilor.

Tipul activității: cercetare, microproducție

Martie 2000 –

Ianuarie 2002

Asistent cercetare

Institutul de Chimie “Raluca Ripan, str. Fântânele nr. 30, 400294 Cluj-Napoca

Separarea și determinarea diferitor clase de compuși prin HPLC și TLC, activitate de microproducție (realizarea plăcilor cromatografice acoperite cu diferite faze staționare).

Tipul activității: cercetare, microproducție

Septembrie 1999 **Profesor**

– Martie 2000 Grupul Școlar Forestier Campeni, str. Izvoarelor nr. 2, Campeni, jud. Alba

Tipul activității: activitate didactică

EDUCAȚIE ȘI FORMARE

1999 - 2005	Diplomă de Doctor în Chimie Universitatea "Babeș-Bolyai" Cluj-Napoca, Facultatea de Chimie și Inginerie Chimică	8 EQF
1998 - 1999	Diplomă de studii aprofundate – Specialitatea Chimie coordinativă și organometalică Universitatea "Babeș-Bolyai" Cluj-Napoca, Facultatea de Chimie și Inginerie Chimică	7 EQF
1994 - 1998	Diplomă de licență, specialitatea Chimie – Fizica Universitatea "Babeș-Bolyai" Cluj-Napoca, Facultatea de Chimie și Inginerie Chimică	6 EQF
1990 - 1994	Diploma de bacalaureat Liceul teoretic "Avram Iancu", Câmpeni, jud. Alba	4 EQF
2018	Abilitare în Ingineria Mediului	

COMPETENȚE PERSONALE

Limba maternă
Limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	B2	B2	B1	B1	B2
Franceza	B1	B1	B1	B1	B1

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
[Cadru european comun de referință pentru limbi străine](#)

Competență digitală

	AUTOEVALUARE				
	Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
	Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent	Utilizator elementar

Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat

[Competențele digitale - Grilă de auto-evaluare](#)

Utilizare Borwin, Adobe Photoshop, Paint, Chemwin, ACD See, documentare Internet, Corel Draw, LC Solution, Wincats

Alte competențe

- Coordonare lucrări de licență în cadrul Facultății de chimie și inginerie chimică și a Facultății de ingineria mediului a Universității Babeș-Bolyai, coordonare teze de doctorat
- Reviewer la diferite reviste internaționale, cotate ISI, cum ar fi: Science of the Total Environment, Molecules, Journal of Chromatography A, Journal of Liquid Chromatography & Related Technologies, African Journal of Microbiology Research, Journal of Essential Oils – Bearing Plant

Competențe de comunicare

Adaptabilitatea și capacitatea de lucru în echipă, dobândită în timpul colaborărilor cu echipe de cercetare din România și străinătate.

Curs: Comunicare în Afaceri (organizat de Academia Britanică de Afaceri și Comunicare, Business and Communication Research Center, 14.11.2019 – 24.02.2020)

Competențe organizaționale/manageriale

- Bun organizator și manager de resurse; înțelege cultura organizațională;
- Șeful echipei de cercetare "Compuși bioactivi și nanostructuri" (2014 – 2018, când s-a reunit cu altă echipă, conform noii organigrame, rezultând echipa *Materiale Multifuncționale și Compuși Biologic Activi*)

- Coordonator grup de cercetare "Compuși bioactivi și nanostructuri" în cadrul echipei E7 "Materiale Multifuncționale și Compuși Biologic Activi" (2018 – prezent)

- Bune competențe manageriale dobândite prin coordonarea echipelor de cercetare ale proiectelor la care a fost și este director/responsabil

Coordonator contracte economice extrabugetare, conform Memoriului de activitate
 Curs: Management Strategic (organizat de Academia Britanică de Afaceri și Comunicare, Business and Communication Research Center, 14.11.2019 – 24.02.2020)
 Curs: Manager proiect (organizat de Soft Skills Training SRL, autoritățile naționale responsabile Ministerul Muncii, Familiei, Protecției Sociale și Persoanelor Vârstnice, Autoritatea Națională pentru Calificări, Ministerul Educației Naționale și Cercetării Științifice, 12.04 – 15.04.2018)
 Curs: Manager inovare (organizat de GEA Strategy & Consulting; autoritățile naționale responsabile Ministerul Muncii, Familiei, Protecției Sociale și Persoanelor Vârstnice, Autoritatea Națională pentru Calificări, Ministerul Educației Naționale și Cercetării Științifice, 11.02.2017 – 17.02.2017)

Competențe dobândite la locul de muncă

Pregătirea documentelor pentru licitație și analiza ofertelor pentru echipamente în cadrul proiectelor de cercetare. Analiza ofertelor pentru sticlărie și consumabile de laborator, inventar, echipamente, precum și urmărirea cheltuielilor și achizițiilor pentru proiectele responsabile în calitate de director
 Participare la cursuri: Training de aplicații pentru software-ul Shimadzu LCMS și LCMS Solution (Viena, martie 2009, 16-20); Specialiștii care se formează în ISO 17025 pentru laborator de testare / analiză (Cluj-Napoca, 19 - 21.06.2000).

INFORMATII SUPLIMENTARE
Publicații Conferințe

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

- Articole publicate: 76 în jurnale cotate ISI, 3 în volumul "Encyclopedia of Chromatography", 22 în jurnale neindexate ISI, 27 în proceedings
 - Carti: 1;
 - Capitole în engleză și în română, în cărți publicate în țară: 2
 - Participare la conferințe: 172 internaționale și 17 naționale

3 articole reprezentative:

1. The Effect of TiO₂ Nanoparticles on the Composition and Ultrastructure of Wheat, **M.L. Soran**, I. Lung, O. Opreș, O. Culicov, A. Ciorță, 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@SiO₂@NH₂ nanopatform 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/MnO₂/Fe₃O₄ nanocomposite for ibuprofen and paracetamol removal from aqueous solutions, Ildiko Lung, **Maria-Loredana Soran***, Adina Stegarescu*, Ocsana Opris, Simona Gutoiu, Cristian Leostean, Mihaela Diana Lazar, Irina Kacso, Teofil-Danut Silipas, Alin Sebastian Porav, *Journal of Hazardous Materials*, 2021, 403, 123528

Patente

- Patent: 1 patent acordat (Romania) (E.Surducan, V.Surducan, Soran Maria Loredana, Bros Ildiko, "Instalatie de separare a compusilor chimici prin cromatografie in prezenta campului de microunde de putere " RO 123363 din 28.10.2011)
 - 3 patente in Republica Moldova (►Procedeu de fabricare a cremei de brânză funcționale, Ghendov-Moșanu A., Popescu L., Sturza R., Lung I., Opreș O., Soran L., MD 1290 Z 2019.06.30; ►Procedeu de fabricare a desertului de brânză funcțional, Ghendov-Moșanu A., Popescu L., Sturza R., Lung I., Opreș O., Soran L., Stan M., MD 1289 Z 2019.06.30, , de asemenea aplicate și în Romania ►Procedeu de fabricare a iaurtului cu valoare biologică înaltă, L. Popescu, A. Ghendov-Moșanu, R. Sturza, A. Patras, I. Lung, O.I. Opreș, M.L. Soran, MD 1497/2020.06.18 (AGEPI)).
 - 1 cerere de brevet: 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 " Cerere brevet A/00323 din 09.06.2020

Proiecte
Director / responsabil a 8 proiecte:

1. CEEX C-2995 / 11.10.2005, Separarea și determinarea unor metale din probe de apă, utilizând derivați ditiiofosforici ca agenți complexanți (2005 – 2007)
2. CEEX 1433/27.04.2006, Analiza calitatii uleiurilor vegetale prin aplicarea unui ansamblu de metode performante optotermice și cromatografice (2006 – 2008)
3. PNII 51-098 / 2007, Influenta microundelor asupra compusilor bioactivi prezenti in plantele autohtone (2007 – 2010)
4. PN2-RU-TE 76/2011, Efectul microundelor asupra uleiurilor esentiale și metabolitelor secundari din cateva plante indigene (2011 – 2014)

5. EEA Grants, 3499/20.05.2015, Ghid metodologic de monitorizare a antibioticelor și a rezistenței antimicrobiene în mediu ca instrument suport pentru îmbunătățirea managementului calității apelor de suprafață și a pânzei freatice (2015 – 2016)
6. 35/BM/19.09.2016, „Substituirea aditivilor alimentari sintetici cu componenți bioactivi extrași din resurse naturale regenerabile” (2016 – 2018)
7. 18 / 01.09.2016, Creșterea capacității de transfer tehnologic și de cunoștințe în INCDTIM Cluj-Napoca, în domeniul Bioeconomiei TTC-ITIM; Contract subsidiar 269 / 08.06.2018, Produse cosmetice cu activitate de fotoprotecție bazată pe extracte din plante (2018 – 2020)
8. The framework of Romanian-JINR cooperation (Order 395-30/27.05.2019; 269/ 20.05.2020, 365/11.05.2021), titluri: The impact assessment of metal / metal oxide nanoparticles on wheat; The impact assessment of metal/metal salts on crops

Proiecte PD coordonate în calitate de mentor:

1. PD 46 / 2022, Compozite noi din deșeuri biogenice de crustacee fără carotenoizi, cu adsorbție eficientă a poluanților de mediu (2022 – 2023), director proiect Fran Nekvapil (Universitatea Babeș – Bolyai)
2. PD 188/14.06.2022, Matrici vitroase avansate pentru încorporarea eficientă a radionuclizilor (2022 – 2024), director de proiect Mioara Zagrai (INCDTIM)

Distincții**19 premii:**

Premiul de Excelență la European Exhibition of Creativity and Innovation EUROINVENT 2022, 26-28 mai 2022, Iași, România, pentru: „Process of making yogurt with high biological value”, authors: Popescu L., Ghendov-Moșanu A., Sturza R., Patraș A., Lung I., Opreș O.I., Sorana M.L.

Premiul de Excelență și Medalia de Aur la Expoziția Internațională de Cercetare, Inovare și Inventie, „PRO INVENT 2021”, Ediția XIX, 20-22 octombrie 2021, Cluj-Napoca, România, pentru: „Procedeu de fabricare a iaurtului cu valoare biologică înaltă”, autori: Popescu L., Ghendov-Moșanu A., Sturza R., Patraș A., Lung I., Opreș O.I., Sorana M.L.

Premiul de Excelență și Medalia de Argint la Expoziția Internațională de Cercetare, Inovare și Inventie, „PRO INVENT 2021”, Ediția XIX, 20-22 octombrie 2021, Cluj-Napoca, România, pentru: „Procedeu de fabricare a emulsiei cosmetice naturale cu factor de protecție solară”, autori: Sorana M.L., Lung I., Opreș O.I., Stegarescu A.O., Podea R.

Premiul I acordat la Târgul Internațional de Inventii și Inovații „INOVALIMENT 2020”, Ediția I, 23-27 noiembrie, 2020, România, pentru „Procedeu de obținere cremă funcțională de brânză”, autori: Ghendov-Moșanu A., Popescu L., Sturza R., Lung I., Opreș O.I., Sorana M.L.

Mențiune acordată la Târgul Internațional de Inventii și Inovații „INOVALIMENT 2020”, Ediția I, 23-27 noiembrie, 2020, România, pentru „Procedeu de obținere a polifenolilor din tescovina de struguri”, autori: Sturza R., Ghendov-Moșanu A., Cristea E., Patraș A., Lung I., Opreș O., Stan C., Sorana M.L., Popovici V.

Medalia de Aur acordată la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii „ProInvent-2020”, Ediția XVIII, organizat online, în perioada 18-20 noiembrie, 2020, de Universitatea Tehnică din Cluj-Napoca, România, pentru „Procedeu de fabricare a desertului de brânză funcțională”, autori: Popescu L., Ghendov-Moșanu A., Sturza R., Lung I., Opreș O.I., Sorana M.L.

Medalie de bronz obținută la The12th Edition of EUROINVENT, European Exhibition of Creativity and Innovation, 23 mai, 2020, Iași, România, pentru lucrarea „Process for producing a functional curd cream”, autori: Ghendov-Moșanu A., Popescu L., Sturza R., Lung I., Opreș O., Sorana M.L.

Medalia de Argint obținută la XVI-a ediție a Expoziției Internaționale Specializate INFOINVENT (EIS), dar și **Premiul de excelență și Medalia de aur** ale Institutului Național de Cercetare-Dezvoltare pentru Industria Chimică și Petrochimică, 20-23 noiembrie, 2019, Chișinău, Republica Moldova, au fost obținute pentru lucrarea „Procedeu de fabricare a cremei de brânză funcționale”, autori: A. Ghendov-Moșanu, Popescu L., Sturza R. – MD; Lung I., Opreș O.I., Sorana M.L. – RO.

Premiul pentru cea mai bună prezentare la XIII. International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering ICABBBE, 21-22 octombrie, 2019, Atena, Grecia, pentru comunicarea orală a lucrării „The influence of ibuprofen, diclofenac and naproxen on composition and ultrastructural characteristics of *Atriplex patula* and *Spinacia oleracea*”, autori: Opreș O., Lung I., Sorana M.L., Giorță A., Copolovici L.

Diplomă de Excelență oferită de Asociația Specialiștilor de Industrie Alimentară din România, în cadrul The 23rd International Exhibition of Inventions INVENTICA 2019, 26-28 iunie, 2019, Iași, România, pentru lucrarea „Process for producing a functional curd cream”, autori: Ghendov-Moșanu A., Popescu L., Sturza R., Lung I., Opreș O.I., Stan M.C., Sorana M.L.

Medalie de bronz obținută la 11th edition of EUROINVENT-European Exhibition of Creativity and Innovation, 16-18

mai, **2019**, Iași, România, pentru lucrarea „*Process for producing a functional curd dessert*”, autori: Ghendov-Moșanu A., Popescu L., Sturza R., Lung I., Oprîș O.I., Stan M.C., Soran M.L.

Premiul pentru inovație, premiu obținut de la Universitatea de Medicină și Farmacie „Carol Davila” din București, în cadrul 11th edition of EUROINVENT-European Exhibition of Creativity and Innovation, 16-18 mai, **2019**, Iași, România, pentru lucrarea: „*Process for producing a functional curd dessert*”, autori: Ghendov-Moșanu A., Popescu L., Sturza R., Lung I., Oprîș O.I., Stan M.C., Soran M.L.

Diploma de Excelență obținută la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii, PRO INVENT, Ediția XVII, 20-22 martie, **2019**, Cluj-Napoca, România, pentru lucrarea „*Procedeu de fabricare a desertului de brânză funcțional*”, autori: Lung I., Oprîș O.I., Soran M.L., Ghendov-Moșanu A., Sturza V.R.

Diploma de Excelență și Medalia de Aur obținută la The 22nd International Exhibition of Inventions, INVENTICA 2018, 27-29 iunie, **2018**, Iași, România, pentru lucrarea „*Process for obtaining polyphenols from grape marc*”, autori: Sturza R., Ghendov-Moșanu A., Cristea E., Patraș A., Popovici V., Lung I., Oprîș O.I., Stan M.C., Soran M.L.

Diplomă de Excelență și Medalia de Aur obținută la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii PRO INVENT, Ediția XVI, 21-23 martie, **2018**, Cluj-Napoca, România, pentru lucrarea „*Procedeu de obținere a polifenolilor din tescovină de struguri*”, autori: Sturza R., Ghendov-Moșanu A., Cristea E., Patraș A., Lung I., Oprîș O.I., Stan M.C., Soran M.L., Popovici V.

Premiul I (cel mai bun poster) obținut la XXI-lea Simpozion internațional privind metodele fizico-chimice de separare, 2-5 iulie 2006, Torun, Polonia, cu lucrarea intitulată „Separarea TLC a U (VI), Th(IV), Co (II), Ni (II) și Cu (II) pe diferite faze staționare folosind HDEHDTP ca agent de complexare”.

Premiul I obținut la Conferința Internațională "Mai multe aspecte ale biologiei, chimiei, informaticii, matematicii și fizicii", Noiembrie 11-13, 2005, Oradea, România.

Premiul de Excelență, Medalia de Argint și Premiul de Excelență și Medalia PROINVENT la Expoziția Internațională de Cercetare, Inovare și Invenție, ediția a VII-a PROINVENT, Cluj-Napoca, 2009, pentru „grup de invenții” format din:

- “Metodă și instalație de procesare a dinamicii unei substanțe în câmpul de microunde de putere” de E. Surducan, V. Surducan, Patent: RO 122063 B1 /28.11.2008;
- " Stimularea dezvoltării plantelor în câmpul cu microunde: A00429 / 09.06.2008;
- "Instalație pentru separarea compușilor chimici prin cromatografie în prezența câmpului de putere a microundelor" de: E. Surducan, V. Surducan, **Sorana Maria Loredana**, Bros Ildiko, Patent: RO-A / 00833 - 06.12.2007.

Premiul Special al Autorității de Cercetare Științifică, Premiul II, Secțiunea A11 - Științe de bază, „Interacțiunea microundelor cu sisteme moleculare și biomoleculare” by: E. Surducan, V. Surducan, V. Tosa, I. Bros, **M.L. Soran**.

Afilieri Membru CNATDCU, Comisia de Ingineria mediului, din 2020 - prezent
 Membru al Consiliului Științific al INCDTIM, din 2018 - prezent
 Membru al asociațiilor profesionale: Societatea Chromatografică, Societatea Română de Chimie, Societatea Științei Separării
 Editor invitat la revista *Molecules*

Citări 982

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Cluj-Napoca,
17.01.2023

Dr. Habil. Sorana Maria – Loredana

List of papers

I. Lucrări publicate în jurnale ISI:

1. A multi-method approach for impact assessment of some heavy metals on *Lactuca sativa* L., **M.L. Soran**, A.N. Sîrb, I. Lung, O. Opreș, O. Culicov, A. Stegarescu, P. Nekhoroshkov, D.M. Gligor, *Molecules*, **2023**, 28, 759.
2. Application of CNT-COOH/MnO₂/Fe₃O₄ Nanocomposite for the Removal of Cymoxanil from Aqueous Solution: Isotherm and Kinetic Studies, I. Lung, **M.L. Soran***, A. Stegarescu, O. Opreș, *Analytical Letters*, 2023, 56(2), 216-230, doi: 10.1080/00032719.2022.2043888.
3. Testing MWCNT-COOH/Fe₃O₄ nanocomposite for the removal of ampicillin from synthetic aqueous solutions, **Soran M.L.**, Lung I., Stegarescu A., Opreș O., *Studia Universitatis Babeș-Bolyai Chemia*, **2022**, 4, 141-149.
4. The antibacterial properties of nanocomposites based on carbon nanotubes and metal oxides functionalized with azithromycin and ciprofloxacin, Stegarescu A., Lung I., Ciorîță A., Kacso Irina, Opreș O., **Soran M.L.***, Soran A.*, *Nanomaterials*, **2022**, 12, 4115
5. Synthesis and characterization of MWCNT-COOH/Fe₃O₄ and CNT-COOH/Fe₃O₄/NiO nanocomposites: Assessment of adsorption and photocatalytic performance, A. Stegarescu, H. Cabrera, H. Budasheva, **M.L. Soran***, I. Lung, F. Limosani, D. Korte, M. Amati, G. Borodi, I. Kacso, O. Opreș, M. Dan, S. Bellucci, *Nanomaterials*, 2022, 12, 3008
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III. Lucrări publicate în proceedings

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IV. Lucrări prezentate la conferințe internaționale:

1. Chemical characterization of alginate-encapsulated plant extracts, Popescu L., Soran M.L., Lung I., **Opris O.**, Kacso I., Ciorîță A., Ghendov-Mosanu A., Macari A., Barbaroș M.M., Sturza R., *Conferinta Internationala "Modern Technologies in the Food Industry", Fifth edition, 20-22 octombrie, 2022, Chișinău, Republica Moldova (prezentare poster)*
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 21st 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*
4. The antibacterial properties of nanocomposites based on carbon nanotubes and metal oxides, Soran M.L., Lung I., Stegarescu A., **Opris O.**, Culicov O., Ciorîță A., *The 6th edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, 6-10 iunie, 2022, Brașov, România*
5. The impact assessment of metal/metal salts on onion, Soran M.L., Culicov O., Lung I., Stegarescu A., **Opris O.**, *The 6th edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, 6-10 iunie, 2022, Brașov, România*
6. Evaluation of copper salts consequence on *Triticum aestivum*, Soran M.L., Culicov O., Lung I., Ciorîță A., **Opris O.**, Stegarescu A., Zinicovscaia I., Yushin N., Vergel K., *International Conference Condensed Matter Research at the IBR-2, 25-29 aprilie, 2022, Dubna, Rusia*
7. The variation of the bioactive compounds content in lettuce grown in the presence of heavy metals salts, A. Sârb, **M.L. Soran**, I. Lung, A. Stegarescu, O. Opris, O. Culicov, D. Gligor, *The 7th International Conference Ecological & Environmental Chemistry 2022 (EEC – 2022), 3-4 Martie 2022, Chișinău, Moldova*
8. Utilization of nanomaterials based on carbon nanotubes for tartrazine removal from water. Isotherms and kinetic studies.
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9. Application of CNT-COOH/MnO₂/Fe₃O₄ nanocomposite for the removal of cymoxanil from aqueous solution, I. Lung, **M.L. Soran**, A. Stegarescu, O. Opris, *The 7th International Conference Ecological & Environmental Chemistry 2022 (EEC – 2022), 3-4 Martie 2022, Chișinău, Moldova*
10. Quantification of antibiotics in influent and effluent wastewater treatments plant and antibiotic resistance profile of isolated bacteria, S.V. Polianciuc, A. Ciorîță, **M.L. Soran**, I. Lung, A.E. Gurzău, F. Loghin, *The 7th International Conference Ecological & Environmental Chemistry 2022 (EEC – 2022), 3-4 Martie 2022, Chișinău, Moldova*
11. The influence of heavy metals salts on the growth of lettuce, **M.L. Soran**, I. Lung, O. Culicov, A. Stegarescu, O. Opris, L. Strelkova, P. Nekhoroshkov, A. Sergeeva, *the 6th Green and Sustainable Chemistry Conference – Online, 16-18 November 2021*
12. Influence of ultrasonic assisted extraction on the content of bioactive compounds and antioxidant activity in grape marc extracts, A. Ghendov-Mosanu, A. Patras, I. Lung, O.I. Opris, **M.L. Soran**, R. Sturza, *The 10th International Symposium Euroalimnt 2021 - Food connect people and share science in a resilient world, 7-8 October 2021, Galati, Romania*
13. Process for manufacturing natural cosmetic emulsion with sun protection factor, **M.L. Soran**, I. Lung, O. Opris, A.O. Stegarescu, R. Podea, *19th edition of the International Exhibition of Research, Innovations and Inventions PRO INVENT, 20-22 October 2021, Cluj-Napoca*

14. Application of nanocomposites to grape wastes processing for improve biodiesel production, Adina Stegarescu, **Maria-Loredana Soran**, Ildiko Lung, Ocsana Opris, Simona Guțoiu, Ovidiu-Ioan PANĂ, International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES, 7-8 October 2021, Chișinău, Moldova
15. Polyphenols extraction from blackthorn berries and their application in sunscreen formulation, O. OPRIȘ, **M. L. SORAN**, I. Lung, A. Stegarescu, S. Guțoiu, R. Podea, P. Podea, R. Sturza, A. Ghendov-Moșanu, International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES, 7-8 October 2021, Chișinău, Moldova
16. *Vinca minor* and *Chelidonium majus* as reducing agents for Ag-MnO₂ nanoparticle synthesis, Alexandra CIORÎȚĂ, Maria Suci, Sergiu Macavei, Irina Kacso, Ildiko Lung, **Maria-Loredana Soran**, Marcel Pârnu, International Conference INTELLIGENT VALORISATION OF AGRO-INDUSTRIAL WASTES, 7-8 October 2021, Chișinău, Moldova
17. Application of nanocomposites based on CNT-COOH as adsorbents for the removal of tartrazine from aqueous solutions, **ML Soran**, I Lung, O Opris, A Stegarescu, 13th International Conference – Processes in Isotopes and Molecules (PIM 2021)”, 22 – 24 September 2021, Cluj-Napoca, România
18. CNT-COOH/MnO₂/Fe₃O₄ nanocomposite as adsorbent for the removal of pesticides from their aqueous solution, I. Lung, **M.L. Soran**, A. Stegarescu, O. Opris, 13th International Conference – Processes in Isotopes and Molecules (PIM 2021)”, 22 – 24 September 2021, Cluj-Napoca, România
19. Synthesis and characterization of Fe₃O₄/MnO₂ nanocomposite for improving of biodiesel production, A Stegarescu, **ML Soran**, I Lung, O Opris, S Guțoiu, C Leostean, MD Lazar, I Kacso, TD Silipas, O Pană, AS Porav, 13th International Conference – Processes in Isotopes and Molecules (PIM 2021)”, 22 – 24 September 2021, Cluj-Napoca, România
20. New emerging magnetic properties of FePt@SiO₂ nanocomposites, M S Gutoiu, **L Soran** A Stegarescu, C Leostean, S Macavei, L Barbu, V Pop, D Benea, R Hirian, O Pana, 13th International Conference – Processes in Isotopes and Molecules (PIM 2021)”, 22 – 24 September 2021, Cluj-Napoca, România
21. Impact assessment of copper salts on various plants, Lung I, Culicov O, Stegarescu A, Opris O, A. Ciorîță, **Soran ML**, Inga Zinicovscaia, Nikita Yushin, Konstantin Vergel, 28th International Seminar on Interaction of Neutrons with Nuclei: «Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics», 24-28 May 2021, Dubna, Rusia
22. Carbon nanotubes/metal oxide nanocomposites –preparation, characterization and possible applications in water decontamination, Adina STEGARESCU, **Maria-Loredana SORAN**, Ildiko LUNG, Cristian PORAV, Diana LAZAR, Gheorghe BORODI, Ovidiu PANA, *Euroasia congress on scientific researches and recent trends-VII*, 7-8 December 2020, Baku, Azerbaijan
23. The influence of CuO nanoparticles and copper sulphate and nitrate salt on composition and ultrastructure of wheat, **Maria – Loredana SORAN**, Otilia Ana CULICOV, Ildiko LUNG, Ocsana OPRIȘ, Adina STEGARESCU, *Euroasia congress on scientific researches and recent trends-VII*, 7-8 December 2020, Baku, Azerbaijan
24. Comparison of the effect of soil amendment of biogenic and chemical obtained CuO NPs on bioactive compounds and elemental accumulation in wheat, Ildiko LUNG, Ocsana OPRIȘ, **Maria – Loredana SORAN**, Otilia Ana CULICOV, Alexandra CIORÎȚĂ, Adina STEGARESCU, Inga ZINICOVSCAIA, Nikita YUSHIN, Konstantin VERGEL, Irina KACSO, Gheorghe BORODI, Marcel PARVU, *The 6th International Conference „Advances in engineering & management – ADEM 2020”*, 10-11 December 2020, Drobeta-Turnu Severin, Romania
25. The influence of ibuprofen, diclofenac and naproxen on composition and ultrastructural characteristics of *Atriplex patula* and *Spinacia oleracea*, O. Opris, I. Lung, **M.L. Soran**, A. Ciorîță, L. Copolovici, ICABBBE 2019: 13. International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering, 21-22 octombrie, 2019, Atena, Grecia.
26. Effects of non-steroidal anti-inflammatory drugs on the ultrastructure and composition of autochthonous vegetables, O. Opris, **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.
27. Optimization of bioactive compounds extraction from garlic for improvement of antioxidant and antifungal properties, Ildiko LUNG, Iuliana VASIAN, Doina Iulia Rotaru, Ioana Alina COLOSI, Adina STEGARESCU, Ocsana OPRIȘ, **Maria – Loredana SORAN**, 18th International Conference – Life Science for Sustainable Development, 26-28 September 2019, Cluj-Napoca, Romania
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29. MnO₂/GO – preparation and characterization, **M L Soran**, O Opris, I Lung, A Stegarescu, S Guțoiu, S Porav, D Lazăr, S Pinteana and O Pană, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România
30. Preparation and characterization of magnetic nanocomposites based on CNT/Fe₃O₄, with sorption properties, A. Stegarescu, **M. L. Soran**, I. Lung, O. Opris, S. Guțoiu, S. Porav, D. Lazăr, S. Pinteana, C. Leostean, O. Pană, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România
31. Magnetic nanocomposite based on half-metals and semiconductors: structural, microstructural and magnetic properties, I O Pana, S Gutoiu, A Stegarescu, **M L Soran**, C Leostean, S Pinteana, O Opris and M Suci, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România
32. Changes in composition and ultrastructure of green leafy vegetables after exposure to non-steroidal anti-inflammatory drugs, O Opris, A Ciorîță, **M L Soran**, I Lung, L Copolovici, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România

33. Optimization of the berries extracts with antioxidant activity, I Lung, **M.L Soran**, O Opris, A Stegarescu, S Gutoiu, M Stan, R Podea, „12th International Conference – Processes in Isotopes and Molecules (PIM 2019)”, 25 – 27 September 2019, Cluj-Napoca, România
34. Chromatographic determination of different drugs from environment, Ocsana OPRİȘ, **Maria L. SORAN**, Ildikó LUNG, Lucian COPOLOVICI Separation Sciences in the SChR Centenary, October 26th, 2018, Cluj-Napoca, Romania.
35. Optimization of the total polyphenols extraction from Hippophae rhamnoides using central composite design, Lung I., **Soran M.L.**, Opris O., Stegarescu A., Guțoiu S., Ghendov-Moșanu A., The 4th International Conference “Modern Technologies in the Food Industry” MTFI – 2018, 18-20 October 2018, Chișinău, Republica Moldova
36. Total carotenoid content of local berries lipophilic extracts, Popovici V. Sturza R., Ghendov-Moșanu A., Rosca I., **Soran L.**, Lung I., Opris O., The 4th International Conference “Modern Technologies in the Food Industry” MTFI – 2018, 18-20 October 2018, Chișinău, Republica Moldova
37. Toxic influence of environmental pollutants on green leafy vegetable, Opris O., **Soran M.L.**, Lung I., Ciorîță A., Copolovici L., The 4th International Conference “Modern Technologies in the Food Industry” MTFI – 2018, 18-20 October 2018, Chișinău, Republica Moldova
38. Changes in foliage photosynthetic characteristics and structure of autochthonous vegetables upon nonsteroidal anti-inflammatory drugs exposure, Opris O., **Soran M.L.**, Lung I., Ciorîță A., Copolovici L., The 17th International Symposium – Prospects for the 3rd Millennium Agriculture, 27 – 29 September 2018, Cluj-Napoca, România
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40. Synthesis, characterization, and antibacterial activity of green synthesized Fe₃O₄/CuO/Ag nanocomposites, Stan M., **Soran M.L.**, Lung I., Opris O., Leoștean C., Silipaș T.D., Vodnar D.C., Lazăr M.D., Porav A.S., Ștefan M., 18th International Balkan Workshop on Applied Physics and Materials Science, 10-13 July, 2018, Constanța, România
41. 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
42. Procedeele de obținere a polifenolilor din tescovină de struguri. Sturza R., Ghendov-Moșanu, Cristea E., Patraș A., Lung I., Opris O. I., Stan M. C., **Soran M. L.**, Popovici V., Salonul Internațional al Cercetării, Inovării și Inventicii, PRO INVENT, 21-23 2018, Cluj-Napoca, România.
43. Functionalization of iron/platinum nanoparticles with core-shell structure, A. Stegarescu, **M.L. Soran**, S. Guțoiu, I. Lung, O. Pană, *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, 27 – 29 September 2017, Cluj-Napoca, România.
44. Allicin: natural distribution, antioxidant and biological activity profile, V.A. Toma, A.C. Moț, A.D. Farcaș, S. Neamțu, **L. Soran**, I. Lung, M. Pârveu, *11th International Conference – Processes in Isotopes and Molecules (PIM 2017)*, 27 – 29 September 2017, Cluj-Napoca, România.
45. The efficiency of the multi-walled carbon nanotubes used for the antibiotics removal from wastewaters generated by animal farms, Opris O., **Soran M.L.**, Lung I., Kacso I., Porav A.S., Stan M. „11th International Conference – Processes in Isotopes and Molecules (PIM 2017)”, 27 – 29 September 2017, Cluj-Napoca, România.
46. Optimization of polyphenols extraction from hawthorn fruits, Trușcă C., Opris O., Lung I., Ghendov-Moșanu A., Sturza R., **Soran M.L.** „11th International Conference – Processes in Isotopes and Molecules (PIM 2017)”, 27 – 29 September 2017, Cluj-Napoca, România.
47. Lung I., M Șenilă, **Soran M.L.**, Opris O., Stan M., Ștefan M. Optimization of some heavy metals removal from aqueous solution using biosynthesized magnetite nanoparticles, 11th International Conference – Processes in Isotopes and Molecules (PIM 2017)”, 27 – 29 September 2017, Cluj-Napoca, România.
48. **Soran M.L.**, Lung I., Stegarescu A., Leoștean C., Opris O., Lazăr M.D., Copolovici L., Stan M., Pană O., Porav A.S. Preparation of MnO₂ nanocatalyst used for biofuel production, 11th International Conference – Processes in Isotopes and Molecules (PIM 2017)”, 27 – 29 September 2017, Cluj-Napoca, România.
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50. Opris O., Lung I., Stan M., **Soran M.L.**, Sturza R, Ghendov-Moșanu A., Optimization of Polyphenols extraction from sea buckthorn and sea buckthorn groats, „8th International Symposium EuroAliment”, 7 - 8 September 2017, Galați, România.
51. Lung I., Opris O., Manuela S., Ghendov-Moșanu A., **Soran M.L.**, Sturza R., Quantification of antioxidant activity of hawthorns fruits and food applications „8th International Symposium EuroAliment”, 7 - 8 September 2017, Galați, România.
52. Ghendov-Moșanu A., Sturza R., **Soran M.L.** Lung I., Opris O., Patraș A., Characteristics of the composition and antioxidant capacity of forest fruits’ oily extracts. „8th International Symposium EuroAliment”, 7 - 8 September 2017, Galați, România.
53. Removal of different pollutants from aqueous solutions using magnetite nanoparticles, Stan M., Lung I., **Soran M.L.**, Opris O., Leoștean C., Popa A., Ștefan M., Lazăr M. D., Silipaș T. D., Porav A. S., Workshop „*Integrated nanodevices for environmental analysis*”, 26 May 2017, Cluj-Napoca, România.
54. Antibiotics removal with carbon nanotubes, **Soran M.L.**, Opris O., Lung I., Kacso I., Porav A. S., Stan M. Workshop „*Integrated nanodevices for environmental analysis*”, 26 May 2017, Cluj-Napoca, România
55. Improving of the GRID computing system efficiency, M R C Trușcă, F Fărcaș, Ș Albert, **M L Soran**, RO-LCG 2016 Conference, "Grid, Cloud and High-Performance Computing in Science, 26-28 October 2016, Bucuresti

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