

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 L1<sub>0</sub> 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, Fe<sub>3</sub>O<sub>4</sub>@Au, nanoparticule magnetice acoperite cu polimer etc) utilizand metode sol-gel, polioli, metoda micelilor inverse, întocmire documentație proiecte.  
 Tipul activității: cercetare

Octombrie 2004 – Mai 2006 **Cercetător științific**

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, Fe<sub>3</sub>O<sub>4</sub>@Au, nanoparticule magnetice acoperite cu polimer etc) utilizand metode sol-gel, polioli, metoda micelilor inverse, întocmire documentație proiecte.  
 Tipul activității: cercetare

Ianuarie 2002 – Octombrie 2004 **Cercetător științific**

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

**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, 113.02.2017 – 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://www.researchgate.net/profile/Maria-Loredana_Soran), <https://publons.com/researcher/2951668/maria-loredana-soran/>)

- Articole publicate: 84 în jurnale cotate ISI, 3 în volumul "Encyclopedia of Chromatography", 22 în jurnale neindexate ISI, 27 în proceedings  
 - Cărți: 1;  
 - Capitole în engleză și în română, în cărți publicate în țară: 2  
 - Participare la conferințe: 183 internaționale și 18 naționale

##### 3 articole reprezentative:

1. A Novel Nanoporous Adsorbent for Pesticides Obtained from Biogenic Calcium Carbonate Derived from Waste Crab Shells, Nekvapil, F; Stegarescu, A; Lung, I; Hirian, R; Cosma, D; Levei, E; **Soran, ML\***, Nanomaterials, 2023, 13(23), 3042
2. Antioxidant, Anti-Inflammatory Effects and Ability to Stimulate Wound Healing of a Common-Plantain Extract in Alginate Gel Formulations, Bâldea, I; Lung, I; Opris, O; Stegarescu, A; Kacso, I; **Soran, ML\***, Gels, 2023, 9(11), 901
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 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 funcțională, Ghendov-Moșanu A., Popescu L., Sturza R., Lung I., Opiș 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., Opiș 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 Opiș, M.L. Soran, MD 1497/2020.06.18 (AGEPI)).  
 - 1 cerere de brevet: M.L.Soran, I. Lung, O.I. Opiș, 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 si metabolitilor 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
9. COFUND-Water4All-DIME: ctr. 60/2024 „Developing innovative solution for mitigation of drought effects”

#### 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., Soran M.L.

**Premiul de Excelență și Medalia de Aur** la Expoziția Internațională de Cercetare, Inovare și Invenție, „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., Soran M.L.

**Premiul de Excelență și Medalia de Argint** la Expoziția Internațională de Cercetare, Inovare și Invenție, „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: Soran M.L., Lung I., Opreș O.I., Stegarescu A.O., Podea R.

**Premiul I** acordat la Târgul Internațional de Invenții 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., Soran M.L.

**Mențiuni** acordată la Târgul Internațional de Invenții 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., Pătraș A., Lung I., Opreș O., Stan C., Soran M.L., Popovici V.

**Medalia de Aur** acordată la Salonul Internațional al Cercetării Științifice, Inovării și Invenției „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., Soran M.L.

**Medalie de bronz** obținută la The12<sup>th</sup> 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., Soran 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., Soran 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., Soran M.L., Ciorîță A., Copolovici L.

**Diplomă de Excelență** oferită de Asociația Specialiștilor de Industrie Alimentară din România, în cadrul The 23<sup>rd</sup> 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., Soran M.L.

**Medalie de bronz** obținută la 11<sup>th</sup> 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., Opriș 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 11<sup>th</sup> 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., Opriș 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., Opriș O.I., Soran M.L., Ghendov-Moșanu A., Sturza V.R.

**Diploma de Excelență și Medalia de Aur** obținută la The 22<sup>nd</sup> International Exhibition of Inventics, 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., Opriș 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 țescovină de struguri*”, autori: Sturza R., Ghendov-Moșanu A., Cristea E., Patraș A., Lung I., Opriș 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 HDEHDTF 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 Inventie, 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, **Soran Maria Loredana**, Bros Ildiko, Patent: RO-A / 00833 - 06.12.2007.

**Afilieri**

**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**.

Membri CNATDCU, Comisia de Ingineria mediului, din 2020 - prezent

Membri al Consiliului Științific al INCDTIM, din 2018 - prezent

Membri al asociațiilor profesionale: Societatea Chromatografică, Societatea Română de Chimie, Societatea Științei Separării

**Citări**

Editor invitat la revista *Molecules*

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Cluj-Napoca,

Dr. Habil. Soran Maria – Loredana

23.05.2024



## List of papers

## I. Lucrări publicate în jurnale ISI:

1. An overview of biopolymers for drug delivery applications, O. Opreș, C. Mormile, I. Lung, A. Stegarescu, **M.L. Soran**, A. Soran, Applied Sciences, 2024, 14, 1383
2. Commercially Biochar Applied for Tartrazine Removal from Aqueous Solutions, **Maria-Loredana Soran**, Mariana Bocșa, Stelian Pinteș, Adina Stegarescu, Ildiko Lung, Ocsana Opreș, Appl. Sci., 2024, 14, 53
3. Graphene-Based Electrochemical Sensing Platform for Rapid and Selective Ferulic Acid Quantification, Magerusan, L.; Pogăcean, F., **Soran, M.L.**; Pruneanu, SM, International Journal of Molecular Sciences, 2023, 24(23), 16937
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125. Flavonoids and Chlorophyll Fluorescence Modification in Rye (*Secale cereale* L.) Treated with Ampicillin, Ocsana Opris, **Maria-Loredana Soran**, Florina Copaciu, Dorina Podar, Virginia Coman, 17<sup>th</sup> International Symposium on Separation Sciences, News and Beauty in Separation Sciences, 5-9 September, Cluj-Napoca, Romania
  126. Determination of dill essential oil composition using modern extraction techniques, M. Stan, **M.L. Soran**, C. Varodi, I. Lung, *Chemistry and Life 2011- 14-16th September, Brno, Czech Republic*
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  134. The extraction and chromatographic determination of the essentials oils from *Ocimum basilicum* L. by different techniques, **Maria Loredana Soran**, Simona Codruta Cobzac, Codruta Varodi, Ildiko Lung, Emanoil Surducan and Vasile Surducan, *Processes in Isotopes and Molecules*, 24 – 26 September 2009, Cluj-Napoca, Romania
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  136. Hybrid magnetic nanocomposites based on core – shell magnetic nanoparticles with polymers, O. Pana , J. Martin, **M. L. Soran**, R. Turcu, C. Leostean, C. Mijangos, *ECNP-Paris 2009 International Conference on Nanostructured and Functional Polymer-based Materials and Nanocomposite*, 2009,15-17 April 2009 Paris, Franta
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148. Synthesis and characterization of bio-functionalized core-shell magnetic nanoparticles with substituted PPy, **O. Pana, R. Turcu, A. Nan, M.L. Soran, D. Bica, L. Vekas**, *4th International Conference on Nanostructured and Functional Polymer-based Materials and Nanocomposite*, April 16 - 18, 2008, Rome, ITALY.
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151. Synthesis and characterization of the core-shell magnetic nanostructures with polypyrrole, O. Pana, **M.L. Soran**, N. Aldea, R. Turcu, C.M. Teodorescu, O. Chauvet, C. Payen, E. Gautron, *9th International Conference on Frontiers of polymers and advanced materials (ICFPAM)*, 8-12 July 2007 Cracovia, Polonia
152. Microwave degradation of sunflower oil. Complementary study by photopyroelectric and infrared spectroscopy, gas chromatography and fluorescence, I. Bros, M. Streza, **M.L. Soran**, V. Surducan, E. Surducan, I. Bratu, R. Pop, C. Neamtu, D. Dadarlat, *International Conference „Agricultural and Food Sciences, Processes and Technologies”*, Third edition, April 26-27, 2007, Sibiu
153. Photothermal methods applied for investigation of early spoilage of some vegetable oils, M. Streza, I. Bros, **M.L. Soran**, V. Surducan, E. Surducan, I. Bratu, I. Kacso, S.I. Farcas, C. Neamtu, D. Dadarlat, *International Conference „Agricultural and Food Sciences, Processes and Technologies”*, Third edition, April 26-27, 2007, Sibiu
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155. **Magnetic composites between core-shell Fe@Au nanoparticles and polymers, O. Pana, I. Craciunescu, M. L. Soran, Eunate Goiti, R. Turcu, Carmen Mijangos, O. Chauvet, 3rd International Conference on Nano-Structured Polymers & Composites, 13-15 may 2007, Corfu, Grecia**
156. **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, *European Conference on Surface Science, ECOS 24*, 3-8 sept. 2006, Paris
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158. Core-shell composites based on polypyrrole and different types of magnetic nanoparticles, O. Pana, R. Turcu, **M.L. Soran**, A. Nan, I. Craciunescu, D. Bica, L. Vekas, C. Prayen and O. Chauvet, *2nd International Symposium on "NANOSTRUCTURED AND FUNCTIONAL POLYMER-BASED MATERIALS & NANOCOMPOSITES" (NANOFUN-POLY)*, Lyon-Villeurbanne, France, May 29 - 31, 2006
159. TLC Separation of Th(IV) and Ln(III) on Various Stationary Phases Using HDEHDTP as Complexing Agent, **Maria - Loredana Soran**, Maria Curtui, Alexandrina Nan, *International Symposium for High Performance Thin-Layer Chromatography*, 9-11 October 2006, Berlin, Germania
160. Di(*n*-butyl)- and di(*iso*-butyl)dithiophosphoric acids-complexing agents in TLC separation of U(VI), Th(IV) and other transition metal ions, **Maria - Loredana Soran**, Maria Curtui, Diana Gherman, *5th International Conference of the Chemical Societies of the South-East European Countries (ICOSECS 5) & The XIX Congress of the Chemists and Technologists of Macedonia*, 10-14 September 2006, Ohrid, Macedonia
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164. Composition analysis of inland sunflower and corn oils by gas-chromatography, Ildiko Broş, **Maria - Loredana Soran**, Florina Tuşa, Emanoil Surducan, V. Surducan, *XXI International Symposium on Physico-Chemical Methods of Separation*, 2-5 July 2006, Torun, Polonia
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166. Nanostructured composites based on conducting polymers, R. Turcu, O. Pana, A. Nan, N. Aldea, **M.L. Soran**, C.V.L. Pop, L.M. Giurgiu, *First Annual Meeting of NOE NANOFUN-POLY*, Terni, Italia, 12 - 14 June, 2005.
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  170. Hybrid structures based on polypyrrole and magnetic nanoparticles, R.Turcu, D.Bica, L.Vekas, N.Aldea, D.Macovei, O.Pana, O.Marinica, **M.L.Soran**, A.Nan, R.Grecu, C.Pop, *2<sup>nd</sup> NANOFUN-POLY Workshop „Applications” and „Nanostructure-property relationships”, 14<sup>th</sup>-15<sup>th</sup> 2005, Madrid, Spain.*
  171. Carbon nanotubes-pyrrole nanocomposites; synthesis and characterization, R. Turcu, O. Pană, Al. Darabont, D. Lupu, A.R. Biris, N. aldea, N. Jumate, **M.L. Soran**, *1<sup>st</sup> Workshop nanofun-poly*, Dresden, Germany, January 28-29, 2005.
  172. Polypyrrole with  $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$  perovskite manganite nanocomposites: syntheses and characterization, O. Pana, R. Turcu, Al. Darabont, **M.L. Soran**, N. Jumate, I. Deac, *2<sup>nd</sup> NANOFUN-POLY WORKSHOP on “Responsive Polymers, Gels and Networks. Characterization of their Structure, Properties and Applications.” and “Structure and Properties of Functional Coatings. Characterization of their Surfaces.”*, Madrid, Spain, 14-15, 2005.
  173. Contrôle d'identité et de pureté de quelques antibiotiques utilisés à produire des sensidiscs pour l'antibiogramme, V. Coman, R. Grecu, **L. Soran**, A. Ștețco, V. Avram, *Troisième Colloque Franco-Roumain de Chimie Appliquée*, Slănic Moldova, Bacău, 22 – 26 September, 2004.
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  175. Separation, identification and determination of some metal ions from *Calendula Officinalis L.*, C. Măruțoiu, L. Oprean, M.I. Moise, O.F. Măruțoiu, **L. Soran**, M.L. Rusu, *6<sup>th</sup> Int. Symp. of Roumanian Academy-Branch Timișoara – „Metal elements in environment, medicine and biology”*, November 8-10, 2004.
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  177. HPLC monitoring of some chemical processes, V. Coman, **L. Soran**, C. Cîrțiu, M. Filip, *The 1<sup>st</sup> International Conference of the Moldavian Chemical Society “Achievements and perspectives of modern chemistry”*, Chișinău, Moldova, October 6 – 8, 2003.
  178. HPLC Monitored Synthesis of  $\text{R}_2\text{NCH}_2$  Substituted Benzene Derivatives, **L. Soran**, V. Coman, A. Soran, C. Silvestru, *5<sup>th</sup> Balaton Symposium on High-Performance Separation Methods*, Siófok, Hungary, September 3 – 5, 2003.
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  180. Separation of uranium (VI) and thorium (IV) from different cations by TLC using dibutyldithiophosphoric acid as complexing reagent, **M.L. Soran**, C. Măruțoiu, M. Curtui, T. Hodișan, *2nd Romanian International Conference on Analytical Chemistry, SCAR 2002*, Timișoara, Romania, September 19-21, 2002.
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  183. Separation and identification of natural antioxidants in red wines, C. Măruțoiu, V. Coman, **M.L. Soran**, I. Andrei, *First Romanian International Conference on Analytical Chemistry, SCAR 2000*, Brașov, Romania, September 21-23, 2000

## V. Prezentări la conferințe în România

1. S.I. Polianciuc, A. Ciorîță, **M.L. Soran**, I. Lung, A.E. Gurzău, M.G. Ștefan, B. Kiss, F. Loghin. Occurrence of antibiotics and antibiotic resistance profile of isolated bacteria in influent and effluent wastewaters. *Zilele Universității de Medicină și Farmacie „Iuliu Hațieganu” 2022*, 5-9 December 2022, Cluj-Napoca.
2. Sunflower oil degradation - study by chromatographic methods and accurate photopyroelectric calorimetry, M. Streza, I. Bros, **M.L. Soran**, J. Leistner, N. Dadarlat, C. Neamtu, *Isotopic and Molecular Processes*, 20-22 September 2007, Cluj-Napoca.
3. Determination of oil adulteration by gas chromatography and photopyroelectric method, M. Streza, I. Bros, **M.L. Soran**, F. Tușa, *9th National Conference on Chemistry, Călimănești-Căciulata*, 04-06 October, 2006.
4. Some pesticides separation by TLC in microwave field, I. Bros, **M.L. Soran**, V. Surducu, *9th National Conference on Chemistry, Călimănești-Căciulata*, 04-06 October, 2006.
5. 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, *The 4<sup>th</sup> National Conference „New research trends in material science”*, Constanta, 4-6 September 2005.
6. The use of organodithiophosphoric acids for separation and determination of some metal ions from residual waters, **Maria-Loredana Soran**, Maria Curtui, Iovanca Haiduc, *Simpozionul national cu participare internationala “Mediul- cercetare, protectie si gestiune”, Editia a V-a*, Agnita, 13-15 October 2005.

7. Thin films of fullerite with perovskites manganites composites, O. Pană, C.M. Teodorescu, D. Macovei, Al. Darabont, N. Jumate, R. Turcu, **M.L. Soran**, *IV<sup>th</sup> Conference with International Participation on Isotopic and Molecular Processes*, Cluj-Napoca, 2-24 September, 2005.
8. The thin films synthesis of Ca and Sr perovskites manganites, O. Pană, C.M. Teodorescu, D. Macovei, Al. Darabont, N. Jumate, N. Aldea, **M.L. Soran**, *IV<sup>th</sup> Conference with International Participation on Isotopic and Molecular Processes*, Cluj-Napoca, 22-24 September, 2005.
9. The synthesis and characterization of  $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$  – polypyrrole nano composites, O. Pană, Al. Darabont, R. Turcu, **M.L. Soran**, N. Aldea, N. Jumate, *Zilele Academice Timișene, Ediția a IX-a*, Timișoara, 26-27 May 2005.
10. The organophosphoric ligands – complexing agents in thin layer chromatography, **M.L. Soran**, M. Curtui, I. Haiduc, *Zilele Academice Timișene, Ediția a IX-a*, Timișoara, 26-27 May 2005.
11. Separarea Cu(II), Ni(II) și Co(II) prin CSS folosind acizi dialchiliditiofosforici ca agenți complexanți, **L. Soran**, M. Curtui, T. Hodișan, *A XXVIII-a Conferință Națională de Chimie, Călimănești-Căciulata*, 6 – 8 October 2004.
12. Some rare earths separation from U(VI) and Th(IV) using dialkyldithiophosphoric acids, **L. Soran**, M. Curtui, T. Hodișan, I. Haiduc, *Sesiunea anuală de comunicări științifice*, Oradea, 27 - 29 May, 2004.
13. HPLC determination of some antibiotics, V. Coman, V. Avram, **L. Soran**, R. Grecu, Z. Moldovan și H. Farkas, *Third Conference with International Participation on Isotopic and Molecular Processes*, Cluj-Napoca, 25-27 September, 2003, (Proceedings, p. 114).
14. Separation and identification of some active compounds from plants by TLC coupled with mass spectrometry, C. Măruțoiu, D. Nica – Badea, M.I. Moise, **L. Soran**, A. Sicoe, Camelia Anca Gavrilă, *11<sup>th</sup> Physical Chemistry Conference with International Participation – Romphyschem 11*, Timișoara, 2-5 September, 2003.
15. Separation of nickel (II) and copper (II) from different cations by TLC using dipentylidithiophosphoric acid as complexing reagent, M.L. Soran, C. Măruțoiu, M. Curtui, T. Hodișan, R. Oprean, *Conference: Agricultural and Food Sciences, Processes and Technologies*, Sibiu, 31 October – 1 November, 2002.
16. Separarea și identificarea unor erbicide din apă prin cromatografie, C. Măruțoiu, I. Schinger, M.L. Soran, E. Stan, C. Popa-Schneider, *A XXVI-a Sesiune Națională de Comunicări Științifice, Căciulata-Vâlcea*, 4-6 October, 2000.
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#### VI. Carti publicate în România

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Cluj-Napoca,

23.05.2024

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