





INFORMAȚII PERSONALE

ARSENE Cecilia

 Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică, Carol I, Nr. 11, 700506 Iași, România

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Sex Feminin Data nașterii 22/11/1970 Naționalitate Română

POZIȚIA CURENTĂ

Profesor universitar dr. habilitat

¹Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică
²Centru Integrat de Studii în Știința Mediului pentru Regiunea de Dezvoltare Nord-Est (din România) / CERNESIM
³Research Center with Integrated Techniques for Atmospheric Aerosol Investigation in Romania / RECENT AIR

EXPERIENȚA PROFESIONALĂ

CARIERA ACADEMICĂ

- 02/2015 – prezent **Profesor universitar doctor abilitat**
Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică <https://www.chem.uaic.ro/ro/conducere/chanalitica.html>
Activitate didactică (cursuri, seminarii, lucrări practice de laborator); Activități de cercetare; Îndrumare lucrări licență și disertație. Conducător de doctorat
Chimie analitică, Chimia mediului, Metode cromatografice, Analiză de urme, Metode de separare Management și asigurarea calității, Etică și integritate academică
- 02/2013 – 02/2015 **Conferențiar universitar doctor**
Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică
Activitate didactică (cursuri, seminarii, lucrări practice de laborator); Activități de cercetare; Îndrumare lucrări licență și disertație; Coordonare teze de doctorat
Chimie analitică, Chimia mediului, Tehnici de separare și metode cromatografice
- 02/2003 – 02/2013 **Lector universitar doctor**
Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică
Activitate didactică (cursuri, seminarii, lucrări practice de laborator); Activități de cercetare; Îndrumare lucrări licență și disertație.
Chimie analitică, Chimia mediului
- 02/1999 – 02/2003 **Asistent universitar**
Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică
Activitate didactică (seminarii, lucrări practice de laborator); Activități de cercetare; Îndrumare lucrări licență și disertație.
Chimie analitică
- 10/1996 – 02/1999 **Preparator universitar**
Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică
Activitate didactică (seminarii, lucrări practice de laborator); Activități de cercetare.
Chimie analitică

MANAGEMENT ȘI COORDONARE

- 09/2020 – 12/2023 **Director de proiect în perioada de implementare a proiectului RECENT AIR, MySMIS ID 127324, câștigat prin competiție în cadrul Programului Operațional Competitivitate 2014-2020 urmare a depunerii propunerii de proiect Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici în România, suportul financiar nerambursabil acordat 89,570,958.10 lei prin Contractul de finanțare nr.. 322/04.09.2020, Perioada de implementare 04.09.2020 – 03.09.2023**
Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie
<https://recent-air.uaic.ro/>
Management tehnic și financiar pe parcursul perioadei de implementare a Proiectului având codul MySMIS 127324 în vederea asigurării concordanței între conținutul Cererii de finanțare și realitatea existentă la locațiile de implementare a Proiectului (10 laboratoare de cercetare nou înființate). Rapoarte de progress. Cereri de rambursare.
- 08/2017 – prezent **Director Școala Doctorală de Chimie**
Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie
<http://www.chem.uaic.ro/ro/doctorat/>
Management, Rapoarte de evaluare, Conducător de doctorat
- 10/2008 – prezent **Șef Laborator LAICA**
Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Laborator de Chimie Analitică și Analiză Instrumentală (LAICA), 11 Carol I, 700506 Iasi, Romania
Șef laborator LAICA prin decizia nr. 19631/17.10.2008 emisă de Rectorul Universității „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie. Responsabilitate asumată: implementarea sistemului de managementul calității pentru laboratoare de încercări în vederea realizării de activități în deplină concordanță cu standardul SR EN ISO CEI 17025/2005. Laborator LAICA acreditat de Asociația de Acreditare din România, RENAR prin Certificatul Nr. LI 820/05.10.2009. Acreditare expirată. Laboratorul își continua activitatea.

CERCETARE

- 07/2017-08/2017 **Profesor invitat**
The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai, 941 rue Charles Bourseul, 59508 Douai, IMT Lille Douai, ULCO, CNES Cedex, France <http://www.labex-cappa.fr/>
Seminar, Activitate de cercetare (Cinetică în fază gazoasă și studii de ozonoliză alcooli nesaturați)
<http://mailchi.mp/8f860d305cbf/newsletter-labex-cappa-juillet?e=b33d2aa12d>
Chimia atmosferei
- 08/2011 - 09/2011 **Profesor invitat**
The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai, 941 rue Charles Bourseul, 59508 Douai, Cedex, France
Studiul produșilor de reacție din ozonoliza alchenelor
Chimia atmosferei
- 10/2007-09/2010 **Cercetător doctor**
Universitatea „Alexandru Ioan Cuza” din Iași; Carol I Nr. 11, 700506 Iași, România
Grant de reintegrare la Universitatea „Alexandru Ioan Cuza” din Iași, România, prin acțiunea Marie Curie MERG-CT în cadrul programului FP7 (proiect MERG-CT-2007-203934 ICAARUS, Intensive Characterisation of Atmospheric Aerosols in the North-Eastern Romania at Various Urban Sites).
Cercetător științific pe un subiect legat de estimarea distribuției spațiale și temporale a concentrației masice și a compoziției chimice a aerosolilor din aerul ambiental din Iași, nord-estul României. Activitate de cercetare dedicată cu precădere măsurătorilor în câmp și studiilor de laborator.
Chimia atmosferei
- 07/2005 - 07/2007 **Cercetător Postdoctorand**
Universitatea din Creta, Laboratorul de Investigarea Proceselor Chimice din Mediu, Heraklion, Grecia
Stagiu postdoctoral la Universitatea din Creta, Laboratorul de Investigarea Proceselor Chimice din Mediu. Tema de cercetare: Evaluarea impactului aerosolilor atmosferici asupra climei în zona Mediteraneană. Marie Curie Intra-European Fellowship, FP6-MEIF-CT-2005-009578 ECITAMA
Activitate de cercetare dedicată măsurătorilor în câmp. Dezvoltarea și implementarea de metode pentru cuantificarea speciilor organice (poluanți organici și anorganici în urme din troposferă) și atribuire a surselor de emisie. Samplingul probelor de aer, apă, sol. Folosirea tehnicilor cromatografice de tip GC și GC-MS în diverse aplicații (calibrări, identificări și separări de compuși). Reactivitatea chimică a

speciilor organice prezente în atmosferă. Analiză statistică multidimensională a datelor experimentale.

Chimia atmosferei

03/1998 - 03/2002 Cercetător doctorand

Bergische Universität Gesamthochschule-Wuppertal; Departamentul de Chimie Fizică; Germania

Doctorat, Chimia Atmosferei

Tema de cercetare: Mecanisme de degradare atmosferică a compușilor organici cu sulf

Departamentul de Chimie Fizică, Bergische Universität GH-Wuppertal, Germania

Coordonator Prof. Dr. Karl-Heinz Becker

Activitate de cercetare dedicată investigațiilor de laborator în camere de reacție (investigații cinetice și de mecanisme de degradare în fază gazoasă a compușilor organici conținând sulf în moleculele lor.

Folosirea tehnicilor spectroanalitice (IR, UV-vis) cu drum optic mărit pentru determinarea și cuantificarea poluanților chimici gazoși în camerele de simulare a condițiilor atmosferice.

Utilizare tehnici analitice pentru măsurarea intensității radiației solare.

Utilizarea unor echipamente analitice de măsurare a intensității radiației solare și de monitorizare a concentrațiilor compușilor de tipul, CO, NO_x, și O₃.

Folosirea instrumentelor de contorizare și urmărire a distribuției numărului, suprafeței și volumului particulelor de aerosoli.

Utilizarea cromatografiei ionice pentru punerea în evidență a unor intermediari instabili de reacție în fază gazoasă.

Chimia fizică a atmosferei

EDUCAȚIE ȘI FORMARE

07/04/2014 Atestat de abilitare

Universitatea „Alexandru Ioan Cuza” din Iași; Școala doctorală de Chimie și Științe ale Vieții și Pământului; Teză de abilitare “Progress in Environmental Chemistry. Laboratory and Field Interrelated Studies”;

Decizie de obținere a atestatului de abilitare și a calității de conducător de doctorat prin Ordinul Ministrului Nr. 166/07.04.2014, Direcția Generală Învățământ Superior, din cadrul Ministerului Educației Naționale

07/2005 - 07/2007 Studii postdoctorale

Universitatea din Creta, Laboratorul de Investigarea Proceselor Chimice din Mediu, Heraklion, Grecia; Tema de cercetare: Evaluarea impactului aerosolilor atmosferici asupra climei în zona Mediteraneană, Marie Curie Intra-European Fellowship, FP6-MEIF-CT-2005-009578 ECITAMA

03/1998 – 03/2002 Studii doctorale / Diplomă de doctor

Bergische Universität Gesamthochschule-Wuppertal; Departamentul de Chimie Fizică; Germania; Titlul „Doktors der Naturwissenschaften” (Dr. Rer. Nat.) eliberat la 14 Decembrie 2001 de către Bergische Universität Gesamthochschule Wuppertal, Germania. Echivalare prin Atestat Nr. 2921/11.11.2002 cu Diplomă de Doctor în Domeniul Chimiei de către Ministerul Educației și Cercetării, România

10/1995 - 06/1996 Studii aprofundate / Diplomă de Studii Aprofundate

Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie; Masterat în Chimie Anorganică – Sinteza, Structura și Reactivitatea Compușilor Anorganici, Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, România. Diplomă de Studii Aprofundate Seria B Nr. 0001927, eliberată pe baza susținerii dizertației în sesiunea iunie 1996. Document eliberat cu Nr. 127/28.01.1998

10/1990-06/1995 Studii universitare / Diplomă de Licență (licențiat în chimie)

Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie; Licență în Chimie, Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, România. Titlul de licențiat în chimie, profilul chimie universitari, specializarea Chimie. Diplomă de Licență Seria N Nr. 004327, eliberată în baza hotărârii comisiei pentru examenul de licență din sesiunea iunie 1995. Document eliberat cu Nr. 1604/06.03.1997

09/1985-06/1989 Studii liceale / Diplomă de Bacalaureat

Liceul de Matematică-Fizică, Petru Rareș, Piatra Neamț, Neamț, România; Bacalaureat, Liceul de Matematică-Fizică, Petru Rareș, Piatra Neamț, Neamț, România. Diplomă de Bacalaureat Seria G Nr. 47052, eliberată pe baza rezultatelor examenului de bacalaureat din sesiunea iunie 1989. Document eliberat cu Nr. 152/01.07.1989

COMPETENȚE PERSONALE

Limba maternă Română



Alte limbi străine cunoscute	Înțelegere		Vorbire		Scriere
	Ascultare	Citire	Participare la conversație	Discurs oral	
Limba engleză	C2	C2	C2	C2	C2
Limba germană	B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user, Common European Framework of Reference for Languages

Competențe organizatorice/ manageriale	<ul style="list-style-type: none"> ○ Bune competențe de comunicare pentru asigurarea faptului că fiecare participant la activitatea coordonată înțelege în mod clar propriile responsabilități și îndatoriri la locul de muncă ○ Capacitate ridicată de adaptabilitate la modificări survenite în mod neașteptat pentru identificarea strategiilor necesare a fi implementate în vederea asigurării continuității activității coordonate ○ Foarte organizată și concentrată pe sarcinile asumate pentru un management adecvat al timpului (program, întâlniri, planificare / adaptare planuri) ○ Abilitatea de a delega activități colaboratorilor în funcție de competențele deținute ○ Putere mare de concentrare și muncă susținută pentru asigurarea succesului unui obiectiv stabilit ○ Capacitate de a stabili și depăși obiective strategice ○ Deschisă în minte și suflet pentru colaborare și pentru a crea oportunități de a transmite idei ○ Instrumente doveditoare: <ol style="list-style-type: none"> 1) Implementarea cu succes a proiectului RECENT AIR (MySMIS ID 127324, cu un sprijin financiar european total nerambursabil de 89.570.958,10 lei), Director de proiect 2) Certificat de acreditare al unității LAICA, Șef de laborator 3) Coordonarea proiectelor naționale și internaționale (de exemplu, ECITAMA, ICAARUS, AI-FORECAST, RECENT AIR) 4) Coordonarea activității de cercetare în diverse laboratoare precum: Laboratorul de chimie aplicată în știința aerosolilor atmosferici (RA-01) și Stația de Monitorizare a Calității Aerului / AMOS (RA-02) de la RECENT AIR, Laboratorul de Chimie de la CERNESIM
Competențe administrative	<ul style="list-style-type: none"> ○ Abilitatea de a coordona activitatea membrilor unor echipe mari de lucru (de exemplu, sub RECENT AIR: 28 de membri ai echipei de management, 21 de colaboratori, 30 de cercetători) ○ Capacitate de a lucra într-o echipă multidisciplinară și multifuncțională, de a lucra cu termene limită, de a propune fișe și machete de lucru, de a completa acurat și eficient documente, de a stabili căi de lucru ○ Abilitatea de a extrage informații semnificative pentru a prezenta informații importante echipelor coordonate și altora ○ Abilitatea de a genera rapoarte clare cu informații trasabile și de a prezenta informații importante ○ Abilitatea de a comunica și argumenta aspect dezbătute la întâlniri cu părțile interesate interne și externe ○ Extrem de responsabilă în raport cu obiectul activității desfășurate ○ Alte competențe dovedite prin: <ol style="list-style-type: none"> 1) Membru al comisiei de etică pentru educație și cercetare, Universitatea "Alexandru Ioan Cuza" din Iași, România, 02/2014-02/2017 2) Membru al Consiliului Facultății de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași, România, 01/2012-12/2015 3) Membru al Consiliului Școlii Doctorale de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași, România, 01/2017-prezent
Competențe dobândite la locul de muncă	Responsabilitate, capacitate de a lucra cu termene fixe, experiență în coordonare echipe multidisciplinare și multifuncționale
Competențe didactice	Prelegeri, seminarii, activități de coordonare a lucrărilor de laborator la Universitatea "Alexandru Ioan Cuza" din Iași, Facultatea de Chimie, pentru: <ul style="list-style-type: none"> ○ Etică și integritate academică (2018 – prezent, trunchi comun master, an I) ○ Management și asigurarea calității (2021 – prezent, trunchi comun master, an I) ○ Managementul calității în analiza chimică. Reglementări ISO (2013-2018, Master Chimia mediului și siguranță alimentară (CMSA), an II) ○ Analiză de urme (2010 – prezent, Chimie, anul III) ○ Metode de separare (2019 – prezent, trunchi comun, anul II) ○ Metode de separare și analiză de urme (2010-2019, Chimie, anul III) ○ Metode de chimie analitică aplicate în cercetarea criminalistică (2011-2016, Facultatea de Drept, Master Criminalistică, anul I) ○ Tehnici cromatografice în analiza medicamentelor și produselor cosmetice (2009-2012, Master Chimia produselor cosmetice și farmaceutice (CPCF), anul I) ○ Sampling și metodologii în investigarea mediului (2008-2009, Master CMSA) ○ Practici instrumentale aplicate în analiza sistemelor chimice (2008-2009, Master, CMSA) ○ Environmetrie / chemometrie (2007-2009, Master)

- Controlul calității în analiza chimică (2007-2009, Chimie, anul III)
- Controlul analitic al materialelor (2003-2004, Master)
- Metode spectroanalitice (2003-2004, Master), Sampling and strategies of environment monitoring (2002-2003, Master (modul limba engleză))
- Chemometry applied in environmental investigation (2002-2003, Master (modul limba engleză))

Laboratoare și seminarii desfășurate cu studenții Facultății de Chimie sau Drept, la disciplinele:

- Managementul calității în analiza chimică. Reglementări ISO
- Metode de separare și analiză de urme (propus set lucrări practice)
- Tehnici cromatografice aplicate în analiza medicamentelor și produselor cosmetice (propus set lucrări practice în colaborare)
- Metode de chimie analitică aplicate în cercetarea criminalistică (propus set lucrări practice)
- Practici instrumentale aplicate în analiza sistemelor chimice (propus set complet lucrări practice)
- Sampling și metodologii în investigarea mediului (propus set complet lucrări practice)
- Environmetrie/chemometrie (seminarii)
- Controlul calității în analiza chimică (propus set lucrări practice în colaborare)
- Controlul analitic al proceselor biotehnologice (dezvoltat set lucrări practice)
- Chimie Analitică (anul I, desfășurat lucrări practice la secția chimie)
- Analiză Instrumentală (anul II, desfășurat lucrări practice la secția chimie).
- Activități de coordonare a lucrărilor de laborator la Bergische Universität Gesamthochschule Wuppertal, Germany.

Competențe de coordonare teze/lucrări

- Coordonare teze doctorat: 4 studenți doctoranzi (1 cotutelă), 3 cu titlul de Doctor
- Coordonare lucrări disertație: 18, 18 cu Diplomă de master
- Coordonare lucrări licență: >25, 25 cu Diplomă de licență

Abilități tehnice și competențe de cercetare

Tehnic

- Experiență în discriminarea clară a compoziției chimice a aerosolilor.
- Experiență în dezvoltarea/optimizarea metodelor potrivite pentru măsurarea speciilor organice din troposferă.
- Experiență pentru măsurătorile în teren ale poluanților organici și anorganici cu o discriminare adecvată a surselor de emisie.
- Experiență în utilizarea în diverse aplicații (calibrare, identificare și separare) a tehnicilor cromatografice cum ar fi IC, GC-FID-MS, GC-FID-MS-TDS, GC-ECD, GC-GC-MS, HPLC.
- Experiență în utilizarea tehnicilor spectroscopice *in situ* cu drum optic mărit (FT-IR) pentru determinarea și cuantificarea poluanților chimici gazoși din camere de reacție adecvate pentru simularea atmosferei.
- Experiență în utilizarea tehnicilor spectrofotometrice (UV-vis), tehnicilor spectroscopice de absorbție atomică (ContraA 700 cu flacără și cuptor de grafit) pentru caracterizarea diferitelor matrici.
- Experiență în utilizarea instrumentelor de caracterizare a aerosolilor, cum ar fi analizorul de discriminare a particulelor funcție de dimensiune și analizorul termo-optic pentru discriminarea componentelor carbon organic și carbon elemental.
- Experiență în exploatarea unor fotoreactoare de mare capacitate (exploatarea unui fotoreactor European, EUPHORE, Spania, și a unor reactoare de cuarț de până la 1000 L.
- Experiență în manipularea echipamentelor analitice pentru măsurarea radiației solare, monitoare de SO₂, CO, NO_x și O₃

Cercetare

- **Mediu** (Chimia aerosolilor atmosferici, Chimia analitică a mediului, Chimia atmosferei axată pe compoziția chimică a troposferei și modificările climatice induse de activitățile umane și interacțiile gaz/particule. Poluanți organici și anorganici prezenți în aer, apă, sol, Cinetică, reactivitate și mecanisme de reacție pentru procesele fotochimice induse de speciile radicalice și atomice (OH, Cl, NO₃, etc) asupra compușilor organici din aer și apă)
- **Metode instrumentale de analiză** (Tehnici instrumentale adecvate (spectroscopice și cromatografice) pentru identificarea și cuantificarea unor analiți specifici din diverse matrici naturale (aer, apă, sol, matrici biologice; tehnici microscopice și spectrofotometrice)
- **Materiale noi pentru procese de decontaminare** (Dezvoltarea și caracterizarea unor materiale noi pentru extracție în fază solidă sub formă de faze staționare (polioxometalați) și membrane cu incluziuni polimerice)
- **Rolul tehnicilor instrumentale și preparative în investigarea stării de sănătate a omului și mediului** (Constituenții chimici din atmosferă și posibile implicații supra sănătății umane, Metode preparative și de analiză în studiul interdependenței dintre acțiunea terapeutică și manifestarea unor boli infecțioase (tuberculoza pulmonară, etc.)

Competențe informatice și de operare pe calculator

- Folosirea avansată a software-ilor pentru calculatoarele tip Personal Computer (PC) (Windows, MS Word, MS Excel, Sigma Plot, Page Maker, Chem-Draw, Microsoft Power Point).
- Utilizarea unor software diferite pentru analiza datelor obținute din spectroscopia FT-IR (OPUS, OMNIC) și UV-vis (Spectral 1.70), cromatografice (Agilent, Hewlett-Packard, Fisons, Chromeleon, NIST Data Base).
- Experiență în exploatarea programului Statistică analiza statistică a bazelor mari de date.

Certificate deținute

- Certificat Analytik Jena to DIN ISO 9001:2008; "Application training session on the contrAA 700 and novAA 350", by Analytik Jena certified to DIN EN ISO 9001:2008, 2014.
- Certificat AnalytikJena to DIN EN ISO 9001:2000, "Application training session on the multi N/C 3100 and selected accessory modules", by Analytik Jena certified to DIN EN ISO 9001:2000, 2013.
- Certificat de participare la schema de comparare interlaborator "Water Analysis-2011, The 7th South-Eastern European Interlaboratory Study", Iunie 2011-Decembrie 2011.
- Certificat cu nr. de înregistrare TRRO AK-32-2010 prin care TUV Rheinland România confirmă participarea și promovarea cursului de instruire „Specialist pentru sisteme de management al laboratoarelor de încercări și etalonări”, (32 ore), conform standardului național SR EN ISO/CEI 17025:2005 identic cu standardul european EN ISO/IEC 17025:2005, 2010.
- Certificat cu nr. de înregistrare TAR AK-58-2010 prin care TUV Austria România confirmă participarea și promovarea cursului de instruire „Auditor intern pentru laboratoare de încercări și etalonări conform standardelor ISO 17025:2005 și ISO 19011:2002”, 2010.

Alte caracteristici

Flexibilitate în gândire, Onestitate

Permis de conducere

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INFORMAȚII SUPLIMENTARE

Publicații

- 65 în jurnale peer-reviewed cu factor de impact
- 23 în jurnale non peer-reviewed
- 6 cărți și 3 monografii
- Indicele Hirsch 18

Participări la conferințe naționale și internaționale

- 22 conferințe/plenare invitate
- Participare cu 67 de contribuții sub formă de conferințe / prelegeri plenare / discuții orale / seminarii la acțiuni organizate la nivel internațional (cu lucrări)
- Participare cu 178 de contribuții sub formă de conferințe / prelegeri plenare / discuții orale / seminarii la acțiuni organizate la nivel național (cu lucrări)

Conferințe

- 222 contribuții științifice la conferințe internaționale organizate în țară și străinătate (62 în străinătate și 160 organizate în România)
- 212 diseminări cu abstract și 10 cu proceeding-uri

Fonduri atrase și participare în proiecte de cercetare

- Participarea la 29 de programe de cercetare
- 8 proiecte coordonate în calitate de Director (5 din programe internaționale și 3 din programe naționale), cu o sumă financiară accesată total de 20.042.220,49 EUR (pentru proiectele finanțate la nivel național s-a folosit factorul de conversie înscris în Contractele de finanțare) distribuită astfel:
 - 1) 228.834,00 EUR din 5 proiecte obținute prin competiție la nivel internațional
 - 2) 1.666,67 EUR din 2 proiecte obținute prin competiție la nivel național
 - 3) 19.371.719,82 EUR din Programul Operațional Competitivitate 2014-2020, prin Propunerea de Proiect MySMIS 127324, RECENT AIR, Contract nr. 322/04.09.2020, cu perioada de implementare 04.09.2020 – 03.09.2023. Obiectivul principal al perioadei curente este asigurarea unei coordonări eficiente în perioada de durabilitate a activității Centrului RECENT AIR la cele 10 laboratoare nou dezvoltate, astfel încât să reușească să devină un centru sustenabil

Recunoaștere științifică la nivel național și internațional

- Referent de specialitate pentru mai mult de 80 articole publicate în peste 20 jurnale științifice (Atmospheric Chemistry and Physics, Atmospheric Environment, Chemosphere, Atmospheric Research, Journal of Environmental Analytical Chemistry, Environmental Chemistry Letters, Journal of Liquid Chromatography & Related Technologies, etc), for more than 80 scientific articles
- h-index 18, Număr citări cu autocitări excluse 1230
- Membru în bordul editoarial pentru Journal of Liquid Chromatography&Related Technologies <https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=jilc20>
- Referent / expert în procesul de evaluare a propunerilor de proiect depuse în diverse competiții: PN-III-P2-2.1-PTE-2021 (peer review activity in 2021), PN-III-P1-1.2-PCCDI-2017 (peer review



- activity in 2017), PE-PN-III-P1-1.1-TE-2016 (peer review activity in 2017), PE-PN-III-P1-1.1-PD-2016 (peer review activity in 2017), Nucleu Core Program (peer review activity in 2016), PN-II-RU-TE-2011-3 Action (peer review activity in 2014), PN-II-PT-PCCA-2013-4 Action (peer review activity in 2013)
- Evaluator / examiner pentru teze de doctorat susținute la alte Universități: Universitatea Babeș Bolyai din Cluj, Universitatea Tehnică "Gheorghe Asachi" din Iași
 - Membru în comisii de concurs pentru promovări la alte Universități: Universitatea Tehnică "Gheorghe Asachi" din Iași
 - Evaluator/Examination Teză de abilitare susținută la Institutul de Chimie Macromoleculară "Petru Poni" din Iași, Romania
 - Membru comitet științific sau Președinte comitet organizare pentru o serie de confrințe organizate la nivel national sau internațional:
 - 1) International Congress on Chemistry and Materials Science (ANCON), Ankara, Turkey (2017) – member of the scientific committee
 - 2) Medical Physics Conference, Birmingham, UK (2015) – Co-convener
 - 3) Faculty of Chemistry Conference, Iasi, Romania (2018 - present) - president of the organisation committee
 - 4) The Scientific Session of Undergraduate, Master and PhD Students (2018 - present) - president of the organisation committee
 - 5) National Conference of the Doctoral Schools from Universitaria Consortium, 2018 – co-organizer
 - 6) 1st SCIENVIR International Conference, Scientific Convergence and Interdisciplinarity in EU Environmental Research, Iasi, Romania, (2017) – co-organizer
 - National Conference on Forensics, Iasi, Romania (2016-2017) – co-organizer

Distincții Bougiatioti, A., Arsene, C., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, Protection and Restoration of the Environment IX (Pre-IX), Kefalonia, Greece, 2008. BEST POSTER AWARD

ANEXE

Anexa 1 Lista publicațiilor și a contribuțiilor științifice

Prof. univ. dr. habil. Cecilia ARSENE



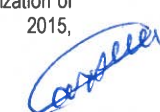
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1 Lista publicațiilor (* - autor de corespondență)**1.1 Publicații în jurnale peer reviewed cu indicativ WoS**

- Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Offline analysis of secondary formation markers in ambient organic aerosols by liquid chromatography coupled with time-of-flight mass spectrometry, *Journal of Chromatography A*, 1702, 464092, 2023. <https://doi.org/10.1016/j.chroma.2023.464092>
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1.3.1 Cărți

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1.4 Participări la conferințe și workshop-uri internaționale

1.4.1 Conferințe / lucrări invitate

1. [Arsene, C.*](#), The beauty of analytical chemistry applied in the investigation of suspended in the air tiny particles or droplets. Unraveling the mysteries of "unknown" / Frumusețea Chimiei analitice aplicate în investigarea „necunoscutului” din aer, Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021; <https://www.chem.uaic.ro/ro/manifestari/ssmd2021.html>
2. [Arsene, C.*](#) (online talk), Chimia în Elita științelor aplicate în descoperirea Minunilor lumii și a Adevărului despre viață - Răspunsul ideal pentru Educație (CHEMARE), Cursuri online pentru studenți, Universitatea "Alexandru Ioan Cuza" din Iasi, 23 Martie 2020. <https://www.uaic.ro/cursuri-deschise/>
3. [Arsene, C.*](#) (online talk), The importance of the laboratory quality management system in the academic curricula in developing appropriate student competences for our current societal needs, Virtual Scientific Workshop, Eurachem 2020, Quality Assurance for Analytical Laboratories in the University Curriculum, 15-15 July, 2020.
4. Galon-Negru, A.G., Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Source apportionment of PM_{2.5} mass concentrations in Iasi urban area, north-eastern Romania, European Aerosol Conference, 25-30 August 2019, Gothenburg, Sweden, oral communication, Source Apportionment Section, Program, pp. 22, O1-F5-A, 2019.
5. [Arsene, C.*](#), Olariu, R.I., Measurements in Iasi, Romania, COST Action CA16109 Working Group 1 Meeting, 05-06 March 2019, London, United Kingdom, oral talk, 06 March 2019.
6. [Arsene, C.*](#), Olariu, R.I., (Conference), AI-FORECAST project (PN-III-P4-ID-PCE-2016-0299) between prediction of the aerosol chemical composition and integration of Cernesim's infrastructure in a European context, The XXXV-th Romanian Chemistry Conference, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, pp. 5, 02 - 05 October, 2018.

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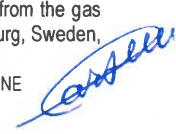
7. [Arsene, C.](#) (Invited talk), Challenges and achievements in analytical chemistry laboratories. Tropane alkaloids as plant-derived pharmaceuticals or ethnobotanical ingredients, 4th French-Romanian Colloquium in Medicinal Chemistry, 05-07 October, 2017.
8. [Arsene, C.](#) (Invited talk), Air quality MONitoring Station - AMOS (CERNESIM-UAIC) the place where aerosols are measured also..., COLOSSAL COST Action CA16109, Chemical On-Line cOmpoSition and Source Apportionment of fine aerosols, Barcelona, Spain, 26-28 September, 2017.
9. [Arsene, C.](#) (Invited talk), Gas-phase kinetic study of OH radical reactions with selected saturated ketones, 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE 2017, 06-09 September 2017, Poiana Brasov, Romania, S3-209, 2017.
10. [Arsene, C.](#) (Seminar), North-eastern Romanian trademark achievements in the atmospheric chemistry field. State-of-the-art- and challenges, Seminar, Chemical and physical Properties of the Atmosphere, CaPPA, SAGE Douai, 13 July 2017.
11. [Arsene, C.](#) (Invited talk), Chemistry, the driving force of our every day's life...from fun and danger to scientific challenges, SCIENVIR 2017 International Conference Programme, 15-18 June, 2017.
12. [Arsene, C.](#) (Seminar), METHodologies in Environmentally focused socioeconomic Research (METER), SCIENVIR 2017 International Conference Programme, 15-18 June, 2017.
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1.4.2 Abstracte și proceedings pentru conferințe

1.4.2.1 Abstracte și proceedings pentru conferințe internaționale organizate în străinătate

1. Negru, A.G., Roman, C., Amarandei, C., [Arsene, C.](#), Olariu, R.I., Investigations of potentially harmful limonene photooxidation products under NO_x and NO_x-free atmospheric simulated conditions, SGEM International Scientific Conferences on Earth & Planetary Sciences, Extended Scientific Sessions Green Sciences for Green Life, 29 November – 01 December 2023, Vienna, Austria.
2. Roman, C., Amarandei, C., Negru, A.G., [Arsene, C.](#), Bejan, I.G., Jamar De Bolsee, M., Dusanter, S., Olariu, R.I., Tomas, A., Atmospheric reactivity of ketolimone: ozone kinetics, reaction products and SOA formation, Goldschmidt 2023 Conference, 09-14 July 2023, Lyon, France. <https://conf.goldschmidt.info/goldschmidt/2023/meetingapp.cgi/Paper/15870>
3. Roman, C., Negru, A.G., Amarandei, C., [Arsene, C.](#), Bejan, I.G., Vione, D., Olariu, R.I., Atmospheric sink mechanism of 4-isobutylacetophenone, a toxic intermediate product from ibuprofen decomposition, 18th International Conference on Chemistry and the Environment, 11-15 June 2023, Venice, Italy. <https://icce2023.com/>
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8. Amarandei, C., Galon Negru, A.G., Olariu, R.I., [Arsene, C.](#), Investigation of size-resolved anthropogenic secondary organic aerosol molecular tracers derived from aromatic hydrocarbons, International Conference on Aerosol Science and Technology ICAS 2020, within IRC 2020, IX International Conference Proceedings, ISSN online 1307-6892, Conference Proceedings, Prague Czechia, Part I, September 03-04, pp. 39, 2020. <https://panel.waset.org/conference/2020/09/prague/program>
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11. Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Gas phase kinetic study for a series of methylated furans with chlorine atoms in atmospheric conditions, The 11th International Conference on Chemical Kinetics, Orleans, France, Book of Abstracts, pp. 150, 23-27 June, 2019.
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2 Experiență în proiecte de cercetare**2.1 Proiecte de cercetare (coordinator, member)****Coordinator (director)**

International				
1	FP7/PEOPLE-MERG-CT-2007 203934	Intensive Characterisation of Atmospheric Aerosols in the north-eastern Romania at various Urban Sites (ICAARUS)	2007-2010	45000 EUR
2	NATO ESP.EAP.CLG.98258/2007	Chemical Composition of Atmospheric Aerosols in the North-Eastern Romania	2007-2009	20000 EUR
3	Bilateral Romania-Italy C18002/09.01.2006	Environmental Quality Understanding Inferred by Laboratory Investigation of the Borne Pollutants Released by Industrial and Agricultural Activities in a Small Part of Romania (EQUILIBRIAAS-PRO)	2006-2008	15000 EUR
4	Bilateral Romania-Greece C18873/28.12.2005	Chemical Composition of Aerosols in an Urban Atmosphere (CCAUA)	2006-2007	12000 EUR
5	Marie-Curie FP-6/MEIF-CT-2005-009578	Evaluation of the Climatic Impact of the Tropospheric Aerosols in the Mediterranean Area (ECITAMA)	2005-2007	136834 EUR
National				
1	POC 2014-2020	Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici, Contract nr. 322/04.09.2020, MySMIS 127324	2020-2023	89.570.958,10 lei
2	PN-III-P4-ID-PCE-2016-0299 37/2017 UEFISCDI, Romania	Assessing the Anthropogenic and Biogenic Emissions Impact on Atmospheric Urban Fine Organic Particles in Eastern Romania. Solving the Challenge of the Aerosols Missing Mass as a One Step Forward Tool (AI-FORECAST)	2017-2019	850000 RON
3	PN-II-ID-PCE-2011-3-0471 UEFISCDI, Romania	Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania (EVOLUTION-AIR)	2011-2016	1050000 RON
Member				
International				
1	INFRAIA-03-2020	Integrating and Opening Research Infrastructures of European Interest ATMO-ACCESS		2021-2024
	COST Action CA16109	COLOSSAL, Chemical On-Line cOmpoSition and Source Apportionment of fine aerosols		2017-2020
2	EC-DGRI, Grant No. 730997 H2020-INFRAIA-2016-2017/H2020-INFRAIA-2016-1	EUROCHAMP-2020		2016-2021
3	PN-III-P3-3.1-PM-RO-FR-2016-0047 Bilateral Romania-France, BRANCUSI 90BM/2017	Ozonolysis of oxygenated unsaturated compounds of biogenic origin in the atmosphere: from kinetics to secondary organic aerosol formation (OzOA)		2017-2018
4	EVR1-CT-2001-40013 Environment and Sustainable Development	Improvements and Access to a Large Simulation Chamber (IALSI)		2002-2004
5	EVK2-CT-1999-00033 Environment and Sustainable Development	Evaluation of the Climatic Impact of Dimethyl Sulphide (EL-CID)		2000-2003
6	ENV4-CT97-0410 Environment and Sustainable Development	Dimethyl Sulphide (DMS): Oxidation Mechanism in Relation to Aerosols and Climate (DOMAC)		1998-1999
7	Projekt No.: 07 AF 22 GSF-Forschungszentrum für Umwelt und Gesundheit, Projektträger des BMBF für Umwelt und Klimaforschung, Germany	Yields of Aerosol Precursors Substances Formed by DMS-Oxidation as a Function of Atmospheric Conditions		1998-2001
National				
1	POCU/380/6/13/ – Sprijin pentru doctoranzi și cercetători post-doctorat	Doctoranzi și cercetători postdoctorat pregătiți pentru piața muncii		02.2019-12.2020
2	Proiect 34PFE/19.10.2018	Dezvoltarea capacității de inovare și creșterea impactului cercetării de excelență la UAIC, proiect de tip Proiecte de dezvoltare instituțională – Proiecte de finanțare a excelenței în CDI finanțat de Ministerul Cercetării și Inovării (MCI)		10.2018-11.2020
3	CNFIS-FDI-2018-0102	Cercetare de Excelență în Romania în cadrul Centrului CERNESIM		07.2018-12.2018
4	PN-III-P4-ID-PCE-2016-0270	Ozonoliza ca sursă de formare a aerosolilor organici secundari.		2017-2019

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	38/2017	Investigații de laborator într-o cameră de simulare a atmosferei (OLFA-ROA)	
5	PN-III-P4-ID-PCE-2016-0807 118/2017	Investigații asupra chimiei atmosferice a hidrocarburilor oxigenate ciclice (IGAC-CYCLO)	2017-2019
6	PN-III-P2-2.1.-PED-2016-0924 78PED/03.01.2017	Development and validation of a temperature regulated environmental chamber for studying atmospheric oxidation processes and mechanisms (DEV-TREC)	2017-2018
7	PN-III-P2-2.1.-PED-2016 86PED/2017	Atmospheric Simulation Chamber-New Research Facility to Understand Sesquiterpene Oxidation (CHARUSO)	2017-2018
8	PN-II-RU-TE-2014-4-2461 305/01.10.2015 UEFISCDI-Romania	Studies on Substituted Aromatic Compounds under Simulated Atmospheric Conditions (SOS-AROMATIC)	2015-2017
9	ERA-MIN/0005/2014 25/2015 UEFISCDI-Romania	ENVIRONMENTALLY friendly and efficient methods for extraction of Rare Elements from secondary sources (ENVIREE)	2016-2017
10	POSCCE-A2-O2.2.1-2009-4, ID 901, SMIS 13984 257/28.09.2010 CNCSIS - Romania	Integrated research centre for environmental sciences investigation in the north-eastern region/CERNESIM	2010-2014
11	POSDRU/86/1.2/S/62307 E6677/18.08.2010	Promoting the criminality scientific research in juridical activities	2010-2013
12	Bilateral Romania-Austria Module III 304/27.04.2009	Sources and physico-chemical characteristics of atmospheric aerosols at central and east European sites, ARCEE	2009-2010
13	PN II/405/2007-2010 MCT-Romania	Research on the retention of selected environmental radionuclides on heteropolioxometalates sorbents for subsequent ion chromatographic analysis	2007-2010
14	INFRAS: 210/2.11.2004 MCT-Romania	Development of the infrastructure for the monitoring and biomonitoring of environmental toxic compounds with the assessment of their toxic effect on living organisms. Certification of a laboratory for the analysis of heavy metals and of selected persistent organic pollutants (POPs)	2004-2007

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2.2 Activitate ca expert / referent

Nr.	Year	Journal	Publisher
1.	2022	Atmospheric and Pollution Research	Elsevier
2.	2022	Atmosphere	MDPI
3.	2022	Chemosphere	Elsevier
4.	2022	Environmental Science and Pollution Research	Springer
5.	2022	Environmental Pollution	Elsevier
6.	2022	Water, Air and Soil Pollution	Springer
7.	2021	Environmental Science and Pollution Research	Springer
8.	2021	Environmental Pollution	Elsevier
9.	2021	Environmental Science and Technology (Iunie)	ACS Publications
10.	2021	Environmental Science and Technology (August)	ACS Publications
11.	2021	Journal of Liquid Chromatography and Related Technologies (February)	Taylor&Francis
12.	2021	Journal of Liquid Chromatography and Related Technologies (May)	Taylor&Francis
13.	2021	Journal of Liquid Chromatography and Related Technologies (July)	Taylor&Francis
14.	2020	Atmosphere (May)	MPDI
15.	2020	Atmosphere (December)	MPDI
16.	2020	Atmospheric Chemistry and Physics (May)	Copernicus
17.	2020	Chemosphere (May)	Elsevier
18.	2020	Environmental Development and Sustainability ((March)	Springer
19.	2020	Environmental Pollution (May)	Elsevier
20.	2020	Environmental Science and Technology (February)	ACS Publications
21.	2020	Environmental Science and Technology (May)	ACS Publications
22.	2020	Journal of Liquid Chromatography and Related Technologies (March)	Taylor&Francis
23.	2020	Journal of Liquid Chromatography and Related Technologies (January)	Taylor&Francis
24.	2020	Journal of Liquid Chromatography and Related Technologies (August)	Taylor&Francis
25.	2020	Journal of Liquid Chromatography and Related Technologies (August)	Taylor&Francis
26.	2020	Environmental Science and Pollution Research (January)	Springer
27.	2019	Atmospheric Environment (April)	Elsevier
28.	2019	Atmospheric Environment (July)	Elsevier
29.	2019	Chemosphere	Elsevier
30.	2019	Environmental Pollution (April)	Elsevier
31.	2019	Environmental Pollution (July)	Elsevier
32.	2019	Journal of Liquid Chromatography and Related Technologies (February)	Taylor&Francis
33.	2019	Journal of Liquid Chromatography and Related Technologies (March)	Taylor&Francis
34.	2019	Journal of Liquid Chromatography and Related Technologies (June)	Taylor&Francis
35.	2019	Journal of Liquid Chromatography and Related Technologies (August)	Taylor&Francis
36.	2018	Environmental Pollution	Elsevier
37.	2018	Environmental Pollution	Elsevier
38.	2018	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
39.	2018	Science of the Total Environment	Elsevier
40.	2017	Environmental Science and Technology	ACS Publications
41.	2017	Environmental Science and Pollution Research	Springer
42.	2017	Journal of Hazardous Materials	Elsevier
43.	2017	Biomarkers Medicine	Future Medicine
44.	2017	Water	MDPI
45.	2017	Applied Surface Science	Elsevier
46.	2016	Environmental Science and Pollution Research	Springer
47.	2016	Chemosphere	Elsevier
48.	2016	Environmental Science and Pollution Research	Springer
49.	2016	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
50.	2015	Chemosphere	Elsevier
51.	2015	Environmental Chemistry Letters	Springer
52.	2015	Environmental Science and Pollution Research	Springer
53.	2015	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
54.	2015	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
55.	2015	Journal of Membrane Science	Elsevier
56.	2015	Journal of Membrane Science	Elsevier
57.	2014	Environmental Science and Pollution Research	Springer
58.	2014	Water, Air and Soil Pollution	Springer
59.	2013	Chemosphere	Elsevier
60.	2013	Environmental Science and Pollution Research	Springer
61.	2013	Science of the Total Environment	Elsevier
62.	2013	Science of the Total Environment	Elsevier
63.	2013	Acta Chimica Iasi	De Gruyter
64.	2013	International Journal of Conservation Science	Index Copernicus
65.	2012	Atmospheric Environment	Elsevier



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66.	2012	Chemosphere	Elsevier
67.	2012	Environmental Science and Pollution Research	Springer
68.	2012	Environmental Science and Pollution Research	Springer
69.	2012	International Journal of Environmental Analytical Chemistry	Taylor&Francis
70.	2012	Journal of Membrane Science	Elsevier
71.	2012	Malaysian Journal of Medical Science	SciVerse Scopus
72.	2011	Environmental Science and Pollution Research	Springer
73.	2011	Science of the Total Environment	Elsevier
74.	2010	Environmental Monitoring and Assessment	Springer
75.	2010	Chemosphere	Elsevier
76.	2010	CLEAN - Soil, Air, Water	Springer
77.	2010	CLEAN - Soil, Air, Water	Springer
78.	2010	Atmospheric Environment	Elsevier
79.	2009	Atmospheric Research	Elsevier
80.	2009	International Journal of Environmental Analytical Chemistry	Taylor&Francis
81.	2009	Environmental Chemistry Letters	Springer
82.	2008	Environmental Chemistry Letters	Springer
83.	2008	Atmospheric Research	Elsevier
84.	2008	Atmospheric Research	Elsevier
85.	2007	Chemosphere	Elsevier
86.	2006	Atmospheric Environment	Elsevier
87.	2004	Atmospheric Chemistry and Physics	Copernicus

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