




INFORMAȚII PERSONALE

ARSENE Cecilia

 Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Carol I, Nr. 11, 700506 Iași, România, Carol I, Nr. 11, 700506 Iași, România
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Sexul Feminin Data nașterii 22/11/1970 Naționalitate Română

POZIȚIA CURENTĂ
Profesor universitar dr. habilitat

Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică & Centru Integrat de Studii în Știința Mediului pentru Regiunea de Dezvoltare Nord-Est (din România) / CERNESIM

EXPERIENȚA PROFESIONALĂ

-
- 08/2017 - prezent **Director Școala Doctorală de Chimie**
 Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, <http://www.uaic.ro/>
 Management și coordonare
- 02/2015 - prezent **Profesor universitar doctor abilitat**
 Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, <http://www.uaic.ro/>
 Activitate didactică (cursuri, seminarii, lucrări practice de laborator); Activități de cercetare; Îndrumare lucrări licență și disertație. Coordonare teze de doctorat
 Chimie analitică, Chimia mediului
- 07/2017-08/2017 **Profesor invitat**
 The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai, 941 rue Charles Bourseul, 59508 Douai, Cedex, France
 CINETICĂ ÎN FAZĂ GAZOASĂ. OZONOLIZĂ
 Chimia atmosferei
- 02/2013 – 02/2015 **Conferențiar universitar doctor**
 Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, <http://www.uaic.ro/>
 Activitate didactică (cursuri, seminarii, lucrări practice de laborator); Activități de cercetare; Îndrumare lucrări licență și disertație; Coordonare teze de doctorat
 Chimie analitică, Chimia mediului
- 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
- 10/2008 - prezent **Șef Laborator LAICA**
 Universitatea „Alexandru Ioan Cuza” din Iași; Laborator de Analiză Instrumentală și Chimie Analitică (LAICA); Carol I Nr. 11, 700506 Iași, România
 Desemnată prin decizia Rectorului Universității „Alexandru Ioan Cuza” din Iași, cu nr. 19631/17.10.2008.
 Responsabil pentru implementarea sistemului de management în acord cu cerințele referențialului SR EN ISO CEI 17025/2005 și a standardelor conexe aplicabile.
 Certificat de Acreditare Nr. LI 820/05.10.2009
- 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

02/2003 -02/2013 Lector universitar doctor

Universitatea „Alexandru Ioan Cuza” din Iași; Facultatea de Chimie; <http://www.uaic.ro/>

Activitate didactică (cursuri, seminarii, lucrări practice de laborator); Activități de cercetare; Îndrumare lucrări licență și disertație.

Chimie analitică

02/1999 -02/2003 Asistent universitar

Universitatea „Alexandru Ioan Cuza” din Iași; Facultatea de Chimie; <http://www.uaic.ro/>

Activitate didactică (seminarii, lucrări practice de laborator); Activități de cercetare; Îndrumare lucrări licență și disertație.

Chimie analitică

03/1998 - 03/2002 Cercetător doctorand

Bergische Universität Gesatochschule-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

10/1996 – 02/1999 Preparator universitar

Universitatea „Alexandru Ioan Cuza” din Iași; Facultatea de Chimie; <http://www.uaic.ro/>

Activitate didactică (seminarii, lucrări practice de laborator); Activități de cercetare.

Chimie analitică

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 universitară, 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	Întelegere		Vorbire		Sciere
	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**

Director Școală Doctorală de Chimie
Șef Laborator LAICA, laborator acreditat RENAR, încercări metale grele
Responsabil Laborator Chimie CERNESIM, Centru Integrat de Studii în Știința Mediului pentru Regiunea de Dezvoltare Nord-Est/(CERNESIM), centru nou înființat în cadrul Universității „Alexandru Ioan Cuza” din Iași prin proiectul POSCCE-A2-O2.2.1-2009-4, ID 901, SMIS 13984, Nr. contract: 257 / 28.09.2010, <https://www.erris.gov.ro/ernesim.uaic.ro>
Responsabil stație AMOS (Air Quality Monitoring Station of CERNESIM, UAIC), site unde parte din echipamentele de la CERNESIM rulează pentru a genera rezultate de încredere și pentru a înregistra parametri de mediu. Inițiator al ideii de implementare și dezvoltare a site-ului AMOS.
Director de proiect/coordonator proiecte naționale și internaționale.

Competențe administrative

Membru în Comisia de Etică pentru Educație și Cercetare, Universitatea “Alexandru Ioan Cuza” din Iași, România, 02/2014-prezent.
Membru în Comitetul Științific de la Centru Integrat de Studii în Știința Mediului pentru Regiunea de Dezvoltare Nord-Est, Universitatea “Alexandru Ioan Cuza” din Iași, România, 10/2014-prezent.
Membru în Consiliul Facultății de Chimie, Universitatea “Alexandru Ioan Cuza” din Iași, România, 01/2012-12/2015.

Competențe dobândite la locul de muncă

Responsabilitate, capacitate de a lucra cu termene fixe, experiență în lucrul în echipă multidisciplinară și multifuncțională.

Competențe didactice	<p>Prelegeri, seminarii, activități de coordonare a lucrărilor de laborator la Universitatea "Alexandru Ioan Cuza" din Iași pentru:</p> <p>Managementul calității în analiza chimică. Reglementări ISO (2013-prezent, Master CMSA, Anul II), Metode de separare și analiză de urme (Chimie, anul III, 2010-prezent); Metode de chimie analitică aplicate în cercetarea criminalistică (2011-prezent, Facultatea de Drept, Master Criminalistică, Anul I), Tehnici cromatografice în analiza medicamentelor și produselor cosmetice (2009-2012, Master 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))</p> <p>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).</p> <p>Activități de coordonare a lucrărilor de laborator la Bergische Universität Gesamthochschule Wuppertal, Germany.</p>
Competențe de coordonare teze/lucrări	<p>Coordonare teze doctorat: 3 studenți doctoranzi (1 cotutelă)</p> <p>Coordonare lucrări disertație: 13</p> <p>Coordonare lucrări licență: 15</p>
Domenii de interes pentru cercetare	<p>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)</p> <p>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)</p> <p>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)</p> <p>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.)</p>
Experiență în cercetare/Abilități tehnice	<p>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 <i>in situ</i> 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).</p>
Competențe informatice	<p>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.</p>

Cetificate deținute	<p>Certificat AnalytikJena 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.</p> <p>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.</p> <p>Certificat de participare la schema de comparare interlaborator "Water Analysis-2011, The 7th South-Eastern European Interlaboratory Study", Iunie 2011-Decembrie 2011.</p> <p>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.</p> <p>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.</p>
Competențe de comunicare	Competențe de comunicare, informare, argumentare, transmitere a informațiilor științifice; Competențe de a susține prelegeri în fața studenților și a unei largi audiențe
Alte competențe	Flexibilitate în gândire, Onestitate
Permis de conducere	-

INFORMAȚII SUPLIMENTARE

Publicații	<p>50 în jurnale peer-reviewed 17 în jurnale non peer-reviewed 6 cărți și 3 monografii</p>
Prezentări	16 conferințe/plenare invitate
Conferințe	<p>55 participări la conferințe științifice internaționale organizate în străinătate 119 participări la conferințe științifice naționale/internaționale organizate în țară</p>
Proiecte	<p>5 proiecte internaționale (director proiect) 2 proiect naționale (director proiect) 7 proiecte internaționale (membru) 12 proiecte național (membru)</p>
Recunoaștere științifică	<p>Recunoaștere internațională Referent la jurnale științifice internaționale (Atmospheric Chemistry and Physics, Atmospheric Environment, Chemosphere, Atmospheric Research, Journal of Environmental Analytical Chemistry, Environmental Chemistry Letters, etc) pentru 52 articole științifice 1060 citări (~822 citări cu opțiune activată „self citation of all authors excluded”) 13 indici Hirsch (cu opțiune activată „self citation of all authors excluded”)</p> <p>Recunoaștere științifică Editor pentru 3 numere cu ediție specială din Acta Chemica Iasi <i>Referent/expert în procesul de evaluare a propunerilor de proiecte trimise sub programele</i> 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 (activitate peer review în 2016) PN-II-RU-TE-2011-3 Action (activitate peer review în 2014) PN-II-PT-PCCA-2013-4 Action (activitate peer review în 2013) <i>Membru în comitetul științific sau de organizare pentru câteva conferințe naționale sau internaționale</i> Faculty of Chemistry Conference, Iasi, Romania (2012-2017) National Conference on Forensics, Iasi, Romania (2016-2017) Medical Physics Conference, Birmingham, UK (2015)</p>
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
Detalii	Anexa 1

Prof. univ. dr. habil. Cecilia ARSENE

Cuprins

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1 Lista publicațiilor (* - autor corespondent)

1.1 Publicații în jurnale peer reviewed

- Negru-Galon A.G., Olariu, R.I., [Arsene, C.*](#), Chemical characteristics of size-resolved atmospheric aerosols in Iasi, north-eastern Romania: nitrogen-containing inorganic compounds control aerosol chemistry in the area, *Atmospheric Chemistry and Physics*, 18, 5879-5904, 2018.
- Bibire, N., Olariu, R.I., Agoroaei, L., Vieriu, M., Panainte, A.D., Cernat, R.I., [Arsene, C.*](#), Reversed-phase high performance liquid chromatographic analysis of three first line anti-tuberculostatic drugs, *Revista de Chimie Bucharest*, 69, 3590-3592, 2018.
- Coman (Babusanu), A.C., Butnaru, E., Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), GC-MS analysis of *Malus domestica* bark and leaf extracts in pesticide non-exposed and exposed matrices, *Rev. Med. Chir. Soc. Med. Nat.*, 122, 198-206, 2018.
- Marin, S.L., Mardare (Balusescu), G., Paduraru, M., Roman, C., Sandu, I.G., Olariu, R.I., [Arsene, C.](#), Vasilache, V., Authentication and evaluation of the technique of minting Romanian coins of the 20th century. I, *Revista de Chimie*, 68(9), 2155-2159, 2017.
- Potolincă, D., Negru, I.C., Vasilache, V., [Arsene, C.](#), Paduraru, M., Sandu, I., Forensic expertise of the paper support of counterfeit documents, *Materiale Plastice*, 54, 186-189, 2017.
- Sandu, I., Olariu, R.I., Sandu, I.G., Stirbu, C., Pascu, C., Vasilache, V., Vione, D., [Arsene, C.*](#), Investigation of the dynamics and kinetics involved in saline aerosol generation under air erosion of pure and contaminated halide salts, *Journal of Aerosol Sciences*, 81, 100-109, 2015.
- Olariu, R.I., Vione, D., Grinberg, N., [Arsene, C.*](#), Applications of liquid chromatographic techniques in the chemical characterization of atmospheric aerosols, *Journal of Liquid Chromatography and Related Technologies*, 38, 322-348, 2015.
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1.3.2 Monografii

- [Arsene, C.](#), Bougiatioti, A., Mihalopoulos, N., Non-methane hydrocarbons variability in the Eastern Mediterranean, pp. 197-206, in Regional Climate Variability and its Impacts in the Mediterranean Area, Mellouki, A., Ravishankara, A.R., eds, NATO Science Series, IV. Earth and Environmental Sciences, 79, 197-206, 2007.
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1.4 Participări la conferințe și wokshop-uri internaționale

1.4.1 Conferințe/lucrări invitate

- [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 Cernesi'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.
- [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.
- [Arsene, C.](#) (Invited talk), Air quality MOonitoring 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.
- [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.
- [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.

6. [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.
7. [Arsene, C.](#) (Seminar), METHodologies in Environmentally focused socioeconomic Research (METER), SCIENVIR 2017 International Conference Programme, 15-18 June, 2017.
8. [Arsene, C.](#) (Invited talk), About ultrasound assisted extraction and its suitability for studying physico-chemical processes in various complex matrices, Sample Treatment 2016, Lisbon, Portugal, 05-07 December, 2016.
9. [Arsene, C.](#) (Invited talk, keynote talk), Chemical composition of aerosols, a fragile barrier between healing and wounding, keynote within the International Conference on Medical Physics, August 03-05, 2015.
10. [Arsene, C.](#) (Invited talk), Chemistry – a piece of wonder in the long way to fulfill the dream to reach one of the world's end "The Cape of the Good Hope", 1st International Conference Perspectives in the Humanities and Social Sciences: Hinting at Interdisciplinarity, Iasi, Romania, 23-24 May, 2014.
11. [Arsene, C.](#) (Invited talk), Chromatography in forensic investigations at the macro and microscale level. Searching for the needle in the haystack, National Conference in Forensic, Iasi, Romania, 23 June, 2013.
12. [Arsene, C.](#) (Invited talk), Flow reactor ozonolysis studies of selected dimethyl hexenes in the gas phase, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference & Mini-Hot-Conference: „Recent Achievements in Organic and Supramolecular Chemistry”, Iasi, Romania, 31 October-02 November, 2013.
13. [Arsene, C.](#) (Invited talk), Chemical characterization of atmospheric aerosols from local to long range transboundary pollution. ICAARUS project at the final phase and beyond, Science. Passion, Mission, Responsibilities, Marie Curie Researchers Symposium, Warsaw, Poland, 25-27 September 2011.
14. [Arsene, C.](#) (Invited talk), Atmospheric aerosols in the north-eastern Romania, The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai, 02 September 2011.
15. [Arsene, C.](#) (Invited talk), Chemical composition of tropospheric aerosols in Iasi, north-eastern Romania, 31st National Conference of Chemistry, Valcea, Romania, 05-07 Octombrie 2010.
16. [Arsene, C.](#) (Invited talk), Non-methane hydrocarbons variability in the Eastern Mediterranean, Advanced Research Workshop, Marrakesch, Morocco, 2006. Regional Climate Variability and its Impacts in the Mediterranean Area, Advanced Research Workshop, Marrakech, Morocco, 23 – 27 November 2006.
17. [Arsene, C.](#) (Invited talk), Organic acidity in a wet precipitation study in the northeastern Romania, 2nd International Conference on Environmental Research and Assessment, Romanian Academy, Bucharest, 05 - 08 October, 2006.

1.4.2 Abstracte și proceedings pentru conferințe

1.4.2.1 Abstracte și proceedings pentru conferințe internaționale organizate în străinătate

1. Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Kinetic investigations of the OH-initiated oxidation of a series of alkylfurans at 298 K and atmospheric pressure, Atmospheric Chemical Mechanisms, University of California Davis USA, 5-7 December, 2018.
2. Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Gas phase kinetic study of the OH radical initiated oxidation of alkylfurans at atmospheric pressure and 298±2 K, pp. 166/197, 25th International Symposium on Gas Kinetics&Related Phenomena, Lille, France, 22nd-26th July 2018.
3. Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Temperature dependence kinetic study by using the newly thermostated ESC-Q-UAIC chamber, pp. 167/197, 25th International Symposium on Gas Kinetics&Related Phenomena, Lille, France, 22nd-26th July 2018.
4. Soroaga, L.V., Olariu, R.I., [Arsene, C.](#), Borcia, C., Quantitative analysis of rare earth elements from secondary sources: a comparison of laser ablation inductively coupled plasma-mass spectrometry and solution inductively coupled plasma-mass spectrometry, Scientific Conference SGEM Vienna GREEN 2017, Vienna, Austria, <https://www.sgemviennagreen.org/>, 27-30 November, 2017.
5. Galon (Negru), A.G., Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Chromatographic and spectroscopic chemical characterisation of atmospheric aerosols in the north-eastern Romania, Iasi region, The Voltaire Atmospheric Chemistry Summer School: Fundamentals for Atmospheric Chemistry, July 2-8, 2017, Orleans, France, 2017 (<http://www.lestudium-ias.com/fr/event/voltaire-atmospheric-chemistry-summer-school-fundamentals-atmospheric-chemistry>).
6. Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Validation studies on newly developed ESC-Q-UAIC photoreactor for gas-phase atmospheric chemistry, The Voltaire Atmospheric Chemistry Summer School: Fundamentals for Atmospheric Chemistry, July 2-8, 2017, Orleans, France, 2017 (<http://www.lestudium-ias.com/fr/event/voltaire-atmospheric-chemistry-summer-school-fundamentals-atmospheric-chemistry>).
7. Olariu, R.I., Marin, S.L., Roman, C., Bejan, I.G., [Arsene, C.](#), Gas-phase kinetic study of OH radical reactions with selected alkylaromatic compounds, ATMOCHEMIO, Book of abstracts, Clermont-Ferrand, France, 19-21 June 2017, pp.37, 2017.
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2 Experiență în cercetare

2.1 Activitatea de cercetare

Mediu

- ✓ Chimia aerosolilor atmosferici
- ✓ Chimia analitică a mediului
- ✓ Poluanți organici și anorganici prezenți în mediu (aer, apă, sol)
- ✓ Investigații cinetice, de reactivitate și mecanistice pentru procesele de oxidare induse pe cale fotochimică sub acțiunea radicalilor OH, NO₃, a atomilor de Cl și a altor specii oxidative (fază lichidă și fază gazoasă)

Tehnici cromatografice și alte tehnici instrumentale

- ✓ Tehnici cromatografice tandem spectrometrie de masă (GC-MS, HPLC-MS), analiza unor compuși chimici din diverse matrici naturale (aer, apă, sol, matrici biologice, medicamente)
- ✓ Tehnici microscopice și spectrofotometrice

Materiale noi pentru procese de decontaminare

- ✓ Dezvoltarea și caracterizarea unor materiale potivite ca faze staționare pentru extracția în fază solidă (polioxometalați) și a unor membrane cu incluziune polimerică

Aspecte legate de sănătatea umană

- ✓ Abordări mecanistice asupra comportamentului unor indicatori biochimici în bolile infecțioase pulmonare (tuberculoza, etc.)
- ✓ Conținutul chimic ai atmosferei (aerosoli, VOCs) cu posibile implicații asupra sănătății umane

Responsabil stație AMOS (**A**ir Quality **M**onitoring **S**tation of CERNESIM, UAIC), locație la care parte din echipamentele din cadrul Centrului CERNESIM rulează pentru generarea unor date de încredere asupra unor parametri specifici compartimentului atmosferă din mediu.

2.2 Proiecte (coordonator, membru)				
Coordonator (director)				
Internațional				
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
Național				
1	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
2	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
Membru				
Internațional				
1	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	2016-2020	
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	
Național				
1	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	
2	Proiect FDI-2018	Cercetare de Excelență în România în cadrul Centrului Ceresim (CER-CE)	07.2018-12.2018	
3	PN-III-P4-ID-PCE-2016-0270 38/2017	Ozonoliza ca sursă de formare a aerosolilor organici secundari. Investigații de laborator într-o cameră de simulare a atmosferei (OLFA-ROA)	2017-2019	
3	PN-III-P4-ID-PCE-2016-0807 118/2017	Investigații asupra chimiei atmosferice a hidrocarburilor oxigenate ciclice (IGAC-CYCLO)	2017-2019	
5	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	
6	PN-III-P2-2.1.-PED-2016 86PED/2017	Atmospheric Simulation Chamber-New Research Facility to Understand Sesquiterpene Oxidation (CHARUSO)	2017-2018	
7	PN-II-RU-TE-2014-4-2461	Studies on Substituted Aromatic Compounds under Simulated	2015-2017	

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	305/01.10.2015 UEFISCDI-Romania	Atmospheric Conditions (SOS-AROMATIC)	
8	ERA-MIN/0005/2014 25/2015 UEFISCDI-Romania	ENVIRONMENTALLY friendly and efficient methods for extraction of Rare Elements from secondary sources (ENVIREE)	2016-2017
9	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
10	POSDRU/86/1.2/S/62307 E6677/18.08.2010	Promoting the criminality scientific research in juridical activities	2010-2013
11	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
12	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
13	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

2.3 Referent și activități ca expert evaluator

Referent pentru articole ISI

Nr.	Year	Journal	Publisher
1.	2018	Environmental Pollution	Elsevier
2.	2018	Environmental Pollution	Elsevier
3.	2018	Science of the Total Environment	Elsevier
4.	2018	Tuberculosis Research and Treatment	Hindawi
5.	2018	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
6.	2017	Environmental Science and Technology	ACS Publications
7.	2017	Environmental Science and Pollution Research	Springer
8.	2017	Journal of Hazardous Materials	Elsevier
9.	2017	Biomarkers Medicine	Future Medicine
10.	2017	Water	MDPI
11.	2017	Applied Surface Science	Elsevier
12.	2016	Environmental Science and Pollution Research	Springer
13.	2016	Chemosphere	Elsevier
14.	2016	Environmental Science and Pollution Research	Springer
15.	2016	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
16.	2015	Chemosphere	Elsevier
17.	2015	Environmental Chemistry Letters	Springer
18.	2015	Environmental Science and Pollution Research	Springer
19.	2015	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
20.	2015	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
21.	2015	Journal of Membrane Science	Elsevier
22.	2015	Journal of Membrane Science	Elsevier
23.	2014	Environmental Science and Pollution Research	Springer
24.	2014	Water, Air and Soil Pollution	Springer
25.	2013	Chemosphere	Elsevier
26.	2013	Environmental Science and Pollution Research	Springer
27.	2013	Science of the Total Environment	Elsevier
28.	2013	Science of the Total Environment	Elsevier
29.	2013	Acta Chimica Iasi	De Gruyter
30.	2013	International Journal of Conservation Science	Index Copernicus
31.	2012	Atmospheric Environment	Elsevier
32.	2012	Chemosphere	Elsevier
33.	2012	Environmental Science and Pollution Research	Springer
34.	2012	Environmental Science and Pollution Research	Springer
35.	2012	International Journal of Environmental Analytical Chemistry	Taylor&Francis
36.	2012	Journal of Membrane Science	Elsevier
37.	2012	Malaysian Journal of Medical Science	SciVerse Scopus
38.	2011	Environmental Science and Pollution Research	Springer
39.	2011	Science of the Total Environment	Elsevier
40.	2010	Environmental Monitoring and Assessment	Springer
41.	2010	Chemosphere	Elsevier
42.	2010	CLEAN - Soil, Air, Water	Springer
43.	2010	CLEAN - Soil, Air, Water	Springer
44.	2010	Atmospheric Environment	Elsevier
45.	2009	Atmospheric Research	Elsevier
46.	2009	International Journal of Environmental Analytical Chemistry	Taylor&Francis
47.	2009	Environmental Chemistry Letters	Springer
48.	2008	Environmental Chemistry Letters	Springer
49.	2008	Atmospheric Research	Elsevier
50.	2008	Atmospheric Research	Elsevier
51.	2007	Chemosphere	Elsevier
52.	2006	Atmospheric Environment	Elsevier
53.	2004	Atmospheric Chemistry and Physics	Copernicus

✓ Referent/Expert în procesele de evaluare a unor proiecte trimise în cadrul programelor:

- 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 (activitate peer review în 2016)
 - PN-II-RU-TE-2011-3 Action (activitate peer review în 2014)
 - PN-II-PT-PCCA-2013-4 Action (activitate peer review în 2013)
- ✓ Evaluator/Examinator teze de doctorat
- ✓ Membru în comitetul științific sau de organizare a unor conferințe naționale sau internaționale
- National Conference of the Doctoral Schools from Universtaria Consortium, 1st Edition, 31 October – 3 November, Iasi, Romania, 2018 – membru comitet științific și moderator
 - IasiChem 2018, Faculty of Chemistry Conference, Iasi, 25 – 26 October, Iasi, Romania (2018) – președinte comitet de organizare
 - The XXXV-th Romanian Chemistry Conference, Posters Section, 02 – 05 October, Calimanesti-Caciulata, Valcea, Romania, 2018, moderator
 - The 9th Scientific Session of Undergraduate, Master and PhD Students, 29-30 June 2018, Iasi, Romania – președinte comitet de organizare
 - International Congress on Chemistry and Materials Science (ANCON), Ankara, Turkey (2017) – membru comitet științific
 - 1st SCIENVIR International Conference, Scientific Convergence and Interdisciplinarity in EU Environmental Research, Iasi, Romania, (2017) – membru comitet științific
 - Faculty of Chemistry Conference, Iasi, Romania (2012-2017) – membru comitet științific și de organizare
 - National Conference on Forensics, Iasi, Romania (2016-2017) – membru comitet de organizare
 - Medical Physics Conference, Birmingham, UK (2015) – membru comitet de organizare

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