Curriculum Vitae

Prof. univ. dr. habil. Romeo-Iulian OLARIU

Afiliere curentă Universitatea Alexandru Ioan Cuza din Iaș:
Facultatea de Chimie, Departamentul de Chimie, Laboratorul de Chimie Analitică
Centrului Integrat de Studii în Știința Mediului pentru Regiunea de Dezvoltare Nord-Est (din România) / CERNESIM
Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici în România / RECENT AIR

Adresă
Birou: Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Chimie
Departamentul de Chimie, Laborator de Chimie Analitică
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Date personale
Naţionalitatea:
Data şi locul naşterii:
Starea civilă:

Studii/Educaţie

Abilitare: 03/2016
28/03/2016 susţinere teză de abilitare "Advanced research in environmental analytical chemistry Laboratory and Field Studies", Decizie de obţinere a atestatului de abilitare şi a calităţii de conducător de doctorat prin Ordinul Ministrului Nr. 3972/07.06.2016, Direcţia Generală Învăţământ Superior, din cadrul Ministerului Educaţiei Naţionale şi Cercetării Ştiinţifice.

Studii doctorale: 03/1998-03/2002
Doctorat, Chimia Atmosferei, Tema de cercetare: Oxidarea atmosferică a unor hidrocarburi aromate selectate, Departamentul de Chimie Fizică, Bergische Universität GH-Wuppertal, Germania, coordonator Prof. Dr. Karl-Heinz Becker. Titlul „Doktors der Naturwissenschaften" (Dr. Rer. Nat.) eliberat la 14 Decembrie 2001 de către Bergische Universitat Gesamthochscule Wuppertal, Germania. Echivalare prin Atestat Nr. 2922/11.11.2002 cu Diplomă de Doctor în Domeniul Chimiei de către Ministerul Educaţiei şi Cercetării, România.

Studii aprofundate: 10/1995-06/1996
Masterat în Chimie Analitică şi Chimie-Fizică – Dinamica moleculară şi termodinamica evoluţiei sistemelor chimice, Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Chimie, România. Diplomă de Studii Aprofundate Seria B Nr. 0001944, eliberată pe baza susţinerii dizertaţiei în sesiunea iunie 1996. Document eliberat cu Nr. 144/28.01.1998.

Studii universitare: 10/1990-06/1995
Licenţă în Chimie şi Fizică, Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Chimie, România. Titlul de licenţiat în chimie şi fizică profilul chimie universitari, specializarea chimie-fizică. Diplomă de Licenţă Seria N Nr. 003745, eliberată în baza hotărârii comisiei pentru examenul de licenţă din sesiunea iunie 1995. Document eliberat cu Nr. 1020/07.02.1996.

Studii liceale: 09/1985-06/1989
Bacalaureat, Liceul de Ştiinţe ale Naturii, Galaţi România. Diplomă de Bacalaureat Seria H Nr. 206104, eliberată pe baza rezultatelor examenului de bacalaureat din sesiunea iunie 1989. Document eliberat cu Nr. 923/03.07.1989.

Experienţă profesională

09/2014: Profesor universitar doctor, Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică. Activităţi didactice (cursuri, seminarii, laboratoare) şi de cercetare.

02/2007-09/2014: Conferenţiar universitar doctor, Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică. Activităţi didactice (cursuri, seminarii, laboratoare) şi de cercetare.

07/2003-09/2004: Stagiu post-doctoral la Faculdade de Ciências e Tecnologica Experience Universidade Nova de Lisboa, Portugalia. Research Training Network, EU project "Laboratory Studies of Reactive Intermediates Relevant to Atmospheric Chemistry and Combustion". Contract No HPRN-CT-2000-00006.

02/2003-02/2007: Lector universitar doctor, Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică. Activităţi didactice (cursuri, seminarii, laboratoare) şi de cercetare.

04/2002-02/2003: Asistent universitar doctor, Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică, România. Activităţi didactice (cursuri, seminarii, laboratoare) şi de cercetare.

03/1998-03/2002: Doctorand în cadrul Departamentului de Chimie Fizică, Bergische Universität GH-Wuppertal, Germania. Activitate de cercetare dedicată investigaţiilor de laborator în camere de reacţie (investigaţii cinetice şi de mecanisme de degradare în fază gazoasă a compuşilor organici aromatici. Exploatare tehnici analitice (FTIR) cu drum optic mărit pentru investigarea comportamentului în fază gazoasă a unor poluanţi organici în camere de reacţie de dimensiuni mari (camera de reacţie din Wuppertal, reactor din quartz de 1080 L). Utilizare tehnici analitice pentru măsurarea intensităţii radiaţiei solare. Utilizare monitoare NO_x, O_3, SO_2, CO şi echipamente de măsurare a aerosolilor. Activităţi de îndrumare a lucrărilor practice de laborator cu studenţi de la Bergische Universität GH-Wuppertal, Germania. În 01/1999 promovare pe funcţia de asistent universitar, Universitatea Al.I. Cuza, Iaşi, Facultatea de Chimie, Departament de Chimie, Laborator de Chimie Analitică, România.

10/1996-02/1998: Preparator universitar, Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Chimie, Departament de Chimie, Laborator de Chimie Analitică, România. Activităţi didactice (seminarii, laboratoare) şi de cercetare.

Proiecte de cercetare internaţionale/naţionale

Director proiecte internaţionale

1) **ATMO-ACCESS**, Solutions for Sustainable Access to Atmospheric Research Facilities, H2020-INFRAIA-2020-1, Grant Agreement N°101008004, , Valoare totală: **120 000 EUR**
2) **EUROCHAMP-2020**, Integration of European Simulation Chambers for Investigating Atmospheric Processes – Towards 2020 and beyond, INFRAIA-1-2016-2017, H2020 Grant Agreement N° 730997, Valoare totală: **104 000 EUR**
3) Contract **NATO: ESP.EAP.CLG 982287**. Perioada de desfăşurare 2006-2008. Tema: Pesticides and Organic Nitrate Level in Natural Matrixes from Iasi-Romania. Beneficiar: NATO, în cadrul programului Environmental Security Valoare totală: **10 000 EUR.**
4) Contract de cercetare ştiinţifică: **EVR1–CT-2001 –40013**; Perioada de desfăşurare 2002-2004. Tema: Improvements and Access to a Large Simulation Chamber (IALSI); Beneficiar:Comunitatea Europeană în cadrul subprogramului: Environment and Sustainable Development; Global Change, Climate and Biodiversity; Valoare totală: **17 500 EUR**.

Director proiecte naţionale

1) **PN-III-P4-PCE 2021-0673**, Nr. contract PCE 74/2022, Studiul degradării atmosferice a unor solvenți organici curați, acronim ATMO-SOS, Valoare proiect **1200000,00 RON,**
2) **PN-III-P4-ID-PCE-2016-0270**, Nr. contract 38/2017, Ozonoliza ca sursă de formare a aerosolilor organici secundari. Investigaţii de laborator într-o cameră de simulare a atmosferei-OLFA-ROA, Valoare proiect **850000,00 RON**.
3) Project **PN-P2.-2.1-PED-2016-0924**, Nr. contract 78PED/03.01.2017, Development and validation of a temperature regulated environmental chamber for studying atmospheric oxidation processes and mechanisms (DEV-TREC) Valoare proiect **600000,00 RON**.
4) Project **PN-III-P3-3.1-PM-RO-FR-2016-0047**, Nr. contract 90BM/2017, Ozonolysis of Oxygenated unsaturated compounds of biogenic origin in the Atmosphere: from kinetics to secondary organic aerosol formation (OzOA).
5) Proiect **POSCCE-A2-O2.2.1-2009-4, ID 901**, SMIS 13984, Nr. contract: 257/28.09.2010, Tema: CENTRU INTEGRAT DE STUDII IN STIINTA MEDIULUI PENTRU REGIUNEA DE DEZVOLTARE NORD-EST / CERNESIM. Valoare proiect **28017514,43 RON**.
6) Proiect **PN-II-2007 Cod 405**, Nr. contract 9/28.09.2007; Cercetări privind reţinerea unor radionuclizi din mediu pe sorbenţi heteropolioxometalaţi în scopul determinării lor prin cromatografie ionică. Valoare proiect **826717,00 RON**.

Membru în proiecte internaţionale

1) FP-7/PEOPLE-MERG-CT-2007-203934, Intensive Characterisation of Atmospheric Aerosols in the north-eastern Romania at various Urban Sites (ICAARUS).
2) Scientific Convergence and Interdisciplinarity in EU Environmental Research (SCIENVIR) – proiect Erasmus+ Jean Monnet Project (2016-2018), referinţa nr. 575254-EPP-1-2016-1-RO-EPPJMO-PROJECT.
3) ERAMIN-Orizont 2020, PN III – ERAMIN nr. 25/2015
4) NATO ESP.EAP.CLG.98258/2007, Chemical Composition of Atmospheric Aerosols in the North-Eastern Romania. Environmental Security Through Science.

5) Research Training Network, EU project "Laboratory Studies of Reactive Intermediates Relevant to Atmospheric Chemistry and Combustion". Contract No HPRN-CT-2000-00006.
6) Effects of the oXidation of Aromatic Compounds in the Troposphere (EXACT): Contract No: EVK4 - CT1999 – 00053.
7) "Chemical composition of aerosols" joint research project selected for mobility exchange under the 5th session of the agreement between the Government of Romania and the Government of the Hellenic Republic on Cooperation in Science and Technology No. C18873/28.12.2005.
8) "Environmental quality understanding inferred by laboratory investigation of the borne pollutants released by industrial and agricultural activities in a small part of Romania" joint research project selected for mobility exchange under the 15th Italian-Romanian Executive Programme of S&T Co-operation for the period 2006-2008 No. C18002/09.01.2006.

Membru în proiecte finanţate la nivel naţional

1) Programului Operaţional Competitivitate POC 2014-2020/448/1/1/Mari infrastructuri de CD/1/Mari infrastructuri de CD, Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici în România (**RECENT AIR**), Cod MySMIS 127324, Contract de finanțare 322/04.09.2020.
2) PN-III-P2-2.1-PED-2021-4119 Contract de finanțare nr. 709PED/2022, Investigarea aerosolilor organici secundari într-un tub laminar de reacție, nou construit. SOA-REACTOR
3) PN-III-P2-2.1-PED-2019-4972 Contract de finanțare nr. 444PED/2020, Fotoliza compușilor nitroaromatici: o noua sursa de formare a HONO si aerosoli organici secundari in atmosfera. PHONIC-HONO-SOA.
4) CNFIS-FDI-2018-0102, Cercetarea de Excelenţă în România în cadrul Centrului CERNESIM (CER-CE).
5) PN-III-P4-ID-PCE-2016-0299, 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).
6) PN-III-P4-ID-PCE-2016-0807Investigatii asupra chimiei atmosferice a hidrocarburilor oxigenate ciclice (IGAC-CYCLO).
7) PN-III-P2-2.1-PED-2016-1621, Camera de Simulare Atmosferică – Nou Instrument de Cercetare pentru Inţelegerea Oxidării Sesquiterpenelor (CHARUSO).
8) PN-II-RU-TE-2014-4-2461, Studii privind oxidarea compuşilor aromatici substituiţi în condiţii de atmosferă simulată // Studies on the Oxidation of Substituted AROMATIC Compounds under Simulated Atmospheric Conditions (SOS-AROMATIC).
9) PN-II-ID-PCE-2011-3-0471, 2011-2014, Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania (EVOLUTION-AIR).
10) CEEX- 2113 /2006. Tema: Reconstrucţia ecologică prin procedee de micoremediere a solurilor degradate de activităţile miniere.
11) CEEX-3089/730. 28.06.2006. Tema: Cercetări privind decolorarea unor soluţii de coloranţi prin noi procedee oxidative, microbiologice şi de sorbţie în scopul reabilitării şi recirculării apelor uzate din industria textilă.
12) INFRAS nr. 210/2.11.2004.Tema: Crearea unei infrastructuri pentru monitorizarea şi biomonitorizarea compuşilor toxici prezenţi în mediu şi pentru urmărirea efectului acestora asupra organismelor vii. Acreditarea unui laborator de analiza metalelor grele şi a poluanţilor organici persistenţi (POPs).

Domenii de interes pentru cercetare/publicare

Mediu

- Chimia atmosferei.
- Identificarea şi cuantificarea poluanţilor organici şi anorganici prezenţi în aer, apă, sol.
- Reactivitate şi mecanisme de reacţie pentru procesele fotochimice induse de speciile radicalice (OH, NO_3, etc.) asupra compuşilor organici din aer şi apă.
- Tehnici instrumentale adecvate (spectroscopice şi cromatografice) pentru identificarea şi cuantificarea unor analiţi specifici din diverse matrici naturale (aer, apă, sol, matrici biologice)

Materiale noi pentru procese de decontaminare

- Dezvoltarea şi caracterizarea unor materiale noi pentru extracţie în fază solidă sub formă de faze staţionare.

Lucrări elaborate/publicate

- Articole/studii publicate în reviste de specialitate ISI Thomson Reuters: **83**
- Cărţi/capitole de cărţi: **5/2**
- Articole/studii publicate in extenso, în lucrări ale unor conferinţe internaţionale de specialitate: **15**
- Alte lucrări şi contribuţii ştiinţifice: **19** publicaţii în jurnale internaţionale şi naţionale BDI; peste **50** de contribuţii la conferinţe internaţionale şi peste **100** de contribuţii la conferinţe naţionale (prezentări orale/postere)

- Număr de citări în reviste cotate ISI: peste **1950** (după Scopus, fără autocitări)
- Factor Hirsch: **20** (după Scopus, fără autocitări)

Alte certificate deţinute

1. Certificat AnalytikJena to DIN EN ISO 9001:2000 - multi N/C3100.
2. Certificat AnalytikJena to DIN ISO 9001:2008 – ContrAA700 and novAA350.
3. Certificat cu nr. de înregistrare TRRO AK-33-2010 prin care TUV Rheinland România confirmă participarea la cursul de instruire „Specialist pentru sisteme de management al laboratoarelor de încercări şi etalonări",conform standardului naţional SR EN ISO/CEI 17025:2005 identic cu standardul european EN ISO/IEC 17025:2005.
4. Certificat cu nr. de înregistrare TAR-AK/69/02/2010prin care TUV Austria România confirmă participarea la cursul de instruire „Auditor intern pentru laboratoare de încercări şi etalonări conform standardelor ISO 17025:2005 şi ISO 19011:2002.

Limbi cunoscute

Engleză (citit –foarte bine; scris - bine, vorbit - bine).
Germana (citit - bine scris-mediu, vorbit - bine).

Experienţă de cercetare/Abilităţi tehnice

Folosirea tehnicilor instrumentale tip FT-IR, Raman, VCD, AAS, UV-vis, Polarografie, Conductometrie, Cromatografie ionică, Cromatografie de gaze, Cromatografie de lichide în diverse aplicaţii (identificări, calibrări, separări de compuşi). Utilizarea camerelor de reacţie folosite în scopul studierii reacţiilor compuşilor chimici în fază gazoasă (camerele de simulare a condiţiilor atmosferice). Utilizarea unor echipamente analitice de măsurare a intensităţii radiaţiei solare şi de monitorizare a concentraţiilor compuşilor de tipul monoxizilor de azot, dioxidului de sulf, ozonului, umiditate şi a instrumentelor de contorizare şi analiză a distribuţiei particulelor de aerosoli.

Experienţă în partea administrativă a Universităţii

Prorector pentru cercetare științifică, dezvoltare, inovare și transfer de cunoștințe 2024-
Director Centru CERNESIM 2019-2024
Membru în Consiliu Facultăţii de Chimie: din anul 2004-2008, 2008-2016, 2018-2019,
Membru în Senatul Universităţii „Alexandru Ioan Cuza" din Iaşi: 2012-2016, 2024-

Alte aptitudini şi competenţe

Aptitudini şi competenţe sociale

Coordonare lucrări licenţă: **39**
Coordonare lucrări disertaţie:**34**
Coordonare lucrări de doctorat: **4**
Doctori în Chimie**: 2**
Responsabilitate, capacitate de a lucra cu termene fixe, experienţă în lucrul în echipă multidisciplinară şi multifuncţională.

Aptitudini şi competenţe organizatorice

Din 2019 director al Centrului Integrat de Studii în Ştiinţa Mediului pentru Regiunea de Dezvoltare Nord-Est/(CERNESIM), centru nou înfiinţat în cadrul Universităţii „Al. I. Cuza" din Iaşi prin proiectul POSCCE-A2-O2.2.1-2009-4, ID 901, SMIS 13984, Nr. contract: 257 / 28.09.2010, https://cernesim.uaic.ro/index.php/language/ro/.
Din 2008 **Responsabilul Calităţii** în cadrul Laboratorului de analiză instrumentală şi chimie analitică (LAICA), laborator acreditat de către RENAR.

Aptitudini şi competenţe ştiinţifice

Capacitate de a interpreta şi comunica rezultate ştiinţifice
Membru în comitetul ştiinţific a conferinţei Facultăţii de Chimie şi a Conferinţei "Recent Achievements in Organic and Supramolecular Chemistry".
Membru Editorial Board Journal of Liquid Chromatography & Related Technologies
Membru in Editorial Board Anal. St. ale Univ. Al.I.Cuza Iasi Seria Geologie
Referent de specialitate pentru articole publicate în jurnale internaţionale cotate ISI:
Journal of Photochemistry and Photobiology A, Chemosphere, Science of the Total Environment, Environmental Chemistry Letters, Atmospheric Chemistry and Physics, Environmental Chemistry, Environmental Science and Technology

Profesor invitat

Septembrie 2023:	Institutul Aerodyne Research, Inc. SUA, MA, SUA
Iunie 2023:	Institut für Energie- und Klimaforschung, IEK-8: Troposphäre, Forschungszentrum Jülich GmbH, Germania
Iulie 2016:	Departamentul de Chimie şi Mediu de la Ecole des Mines din Douai, Franţa.
Iulie/august 2015:	Departamentul de Chimie şi Mediu de la Ecole des Mines din Douai, Franţa.
Iulie/august 2011:	Departamentul de Chimie şi Mediu de la Ecole des Mines din Douai, Franţa.
Iunie/iulie 2010:	Departamentul de Chimie şi Mediu de la Ecole des Mines din Douai, Franţa.
Iulie 2007:	Laboratorul de Chimie Analitică, Universitatea din Torino, Italia.
Iulie 2006:	Laboratorul de Chimie Analitică, Universitatea din Torino, Italia.

Membru asociaţii profesionale
Societatea Română de Chimie din 2005.
EUROCHAMP- Advanced European atmospheric simulation chambers consortium - 2016
ATMO-ACCES- Sustainable Access to Atmospheric Research Facilities consortium- 2021

Activitatea didactică
Cursuri şi laboratoare/seminarii ţinute la diverse specializări din cadrul Universităţii „Al.I.Cuza"din Iaşi:

- Bazele chimiei analitice (Facultatea de Chimie, Anul I).
- Analiză Instrumentală (Facultatea de Chimie, Anul II).
- Analiză Instrumentală (Facultatea de Chimie, Anul I).
- Abilităţi practice în analiza instrumentală (Facultatea de Chimie, Anul II).
- Chimia mediului (Facultatea de Chimie, Master Anul II).
- Senzori chimici (Facultatea de Chimie, Master Anul I).
- Metode de chimie analitică aplicate în cercetarea criminalistică (Facultatea de Drept, Master Anul I).
- Managementul calităţii în analiza chimică. Reglementări ISO. (Facultatea de Chimie, Master Anul II).
- Procese chimice în atmosferă (Facultatea de Fizică, Master Anul II).
- Controlul analitic al proceselor biotehnologice (Facultatea de Chimie, Anul III).
- Procese atmosferice in faza gazoasa (Facultatea de Chimie, Master Anul II).
- Chimie analitică şi practica separării în chimie (Facultatea de Chimie, Anul I).
- Analize de urme (Facultatea de Chimie, Anul III).
- Managementul şi legislaţia mediului (Facultatea de Chimie, Master Anul II).
- Environmetrie - chemometrie aplicată în studiul mediului (Facultatea de Chimie, Master Anul II).
- Sampling şi metodologii analitice de investigarea mediului (Facultatea de Chimie, Master Anul I).
- Tehnici şi instrumente analitice utilizate in laboratoarele clinice (Facultatea de Chimie, Master Anul I).

Prof. univ. dr. habil. Romeo-Iulian OLARIU

Septembrie, 2024

Lista de lucrări ştiinţifice

a)Lista celor 10 lucrări relevante pentru realizările profesionale:

1. Rusu (Vasilache), A.-M., Roman, C., Bejan, I.G., Arsene, C., Olariu, R.I.*, Gas-Phase Kinetic Investigation of the OH-Initiated Oxidation of a Series of Methyl-Butenols under Simulated Atmospheric Conditions, Journal of Physical Chemistry A, 128, 4838-4849, 2024.
2. Amarandei C., Olariu R.I., Arsene C., First insights into the molecular characteristics of atmospheric organic aerosols from Iasi, Romania: Behavior of biogenic versus anthropogenic contributions and potential implications, Science of the Total Environment, 877, 2023.
3. Arsene C., Bejan I.G., Roman C., Olariu R.I., Minella M., Passananti M., Carena L., Vione D., Evaluation of the Environmental Fate of a Semivolatile Transformation Product of Ibuprofen Based on a Simple Two-Media Fate Mode, Environmental Science and Technology, 56 (22), 15650-15660, 2022.
4. Soroaga L.-V., Arsene C., Borcia C., Pintilei M., Olariu R.I.*, Development and application of an analysis method for the determination of rare earth elements in silicate-rich samples by Na2O2 sintering and ICP–MS analysis, Analytical Sciences, 38 (11), 1395-1406, 2022.
5. Roman, C., Arsene, C., Bejan, I. G., and Olariu R.I.*: Investigations into the gas-phase photolysis and OH radical kinetics of nitrocatechols: implications of intramolecular interactions on their atmospheric behaviour, Atmos. Chem. Phys., 22, 2203–2219, 2022.
6. Roman, C., Roman, T., Arsene, C., Bejan, I. G., and Olariu R.I.*.: Gas-phase IR cross-sections and single crystal structures data for atmospheric relevant nitrocatechols, Spectrochim. Acta-Part A Mol. Biomol. Spectrosc., 265, 120379, 2022.
7. Galon-Negru, A.G., Olariu, R.I., Arsene, C., Size-resolved measurements of PM2.5 water-soluble elements in Iasi, north-eastern Romania: Seasonality, source apportionment and potential implications for human health, Science of the Total Environment, 695, 2019.
8. Olariu R.I.*, Barnes I., Bejan I., Arsene C., Vione D., Klotz B., Becker K.H. FT-IR product study of the reactions of NO_3 radicals with ortho -, meta -, and para-cresol, Environmental Science and Technology, 47(14), 7729-7738, 2013.
9. Davide Vione, Valter Maurino, Claudio Minero, Ezio Pelizzetti, Mark A. J. Harrison, Romeo-Iulian Olariu and Cecilia Arsene, Photochemical Reactions in the Tropospheric Aqueous Phase and on Particulate Matter. Chemical Society Reviews, 35,441-453, 2006.
10. Olariu, R.I.; Barnes, I.; Becker, K.H.; Klotz, B. and Mocanu, R., FT-IR study of the ring. retaining products from the reaction of OH radical with phenol, o-, m-, and p-cresol, Atmospheric Environment, 36, 3685-3697, 2002.

c) Cărţi şi capitole în cărţi:

1. Cecilia Arsene si Romeo Iulian Olariu, Cercetarea criminalistica a microurmelor, AIT Laboratories, 185 p., ISBN 978-606-8363-09-7x1, 2011.
2. Cecilia Arsene, Romeo Iulian Olariu, Understanding atmospheric chemistry of hydrocarbons. An introductory approach, 177 p., ISBN: 978-973-702-657-6, TEHNOPRESS, Iasi, 2009.
3. Cecilia Arsene, Romeo Iulian Olariu, Metode analitico-statistice in investigarea sistemelor chimice, 241 p., ISBN: 978-973-730-606-7, PERFORMANTICA, Iasi, 2009.
4. Vione, D., Minero, C., Maurino, V., Olariu, R.I., Arsene, C., Mostofa, K.M.G., Photoinduced Transformation Processes in Surface Waters, pp.309-332, Chapter 9, in Photochemistry: UV/VIS Spectroscopy, Photochemical Reactions and Photosynthesis, Maes, K.J., Willems, J.M., Eds., Series Chemical Engineering Methods and Technology, ISBN: 978-1-61209-506-6,Imprint: Nova Press, 2011 (book chapter).
5. Cecilia Arsene , Romeo Iulian Olariu, Sulful in atmosfera, Editura Tehnica, Stiintifica si Didactica, 198 p., ISBN: 973-8188-87-3, CERMI, Iasi, 2003.
6. Romeo Iulian Olariu, Cecilia Arsene, Degradarea atmosferica a hidrocarburilor aromatice, 101 p., ISBN 973-8490-25-1, Ed. PIM, Iasi, 2002.
7. R. Olariu, I. Barnes, K.H. Becker, Kinetics of hydroxylated benzenes, in Atmospheric Diagnostics in Urban Regions, ed. By J.P. Lay, K.H. Becker, W.H. Hauthal, B. Rindone, C. Zetzsch, ISBN 3-503-06070-7, Erich Schmidt Verlag, Berlin, 2001, p113-119 (book chapter).

d) articole/studii publicate în extenso, în reviste din circuitul ştiinţific internaţional

ISI-în străinătate

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