

Curriculum Vitae

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

- Afilieră curentă** Universitatea Alexandru Ioan Cuza din Iași, Facultatea de Chimie
Departamentul de Chimie, Laboratorul de Chimie Analitică
Director al Centrului Integrat de Studii în Știința Mediului pentru Regiunea de
Dezvoltare Nord-Est (din România) / CERNESIM
- Adresă**
Birou: Universitatea Alexandru Ioan Cuza din Iași, Facultatea de Chimie
Departamentul de Chimie, Laborator de Chimie Analitică
Carol I, Nr. 11, 700506-Iași, România
- Telefon: +40-232-201354
Fax: +40-232-201313
E-mail: oromeo@uaic.ro
- Date personale**
Naționalitatea: Română
Data și locul nașterii: 10 Iulie 1971, Rupea, Brașov, România
Starea civilă: căsătorit, un copil
- Studii/Educație**
Abilitare: 03/2016
28/03/2016 susținere teză de abilitare "Advanced research in environmental
analytical chemistry Laboratory and Field Studies", Decizie de obținere a
atestatului de abilitare și a calității de conducător de doctorat prin Ordinul
Ministrului Nr. 3972/07.06.2016, Direcția Generală Învățământ Superior, din
cadrul Ministerului Educației Naționale și Cercetării Științifice.
- 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 Universität Gesamthochschule Wuppertal,
Germania. Echivalare prin Atestat Nr. 2922/11.11.2002 cu Diplomă de Doctor
în Domeniul Chimiei de către Ministerul Educației și Cercetării, România.
- Studii aprofundate: 10/1995-06/1996
Masterat în Chimie Analitică și Chimie-Fizică – Dinamica moleculară și
termodinamica evoluției sistemelor chimice, Universitatea Alexandru Ioan
Cuza din Iași, Facultatea de Chimie, România. Diplomă de Studii Aprofundate
Seria B Nr. 0001944, eliberată pe baza susținerii dizertației în sesiunea iunie
1996. Document eliberat cu Nr. 144/28.01.1998.
- Studii universitare: 10/1990-06/1995
Licență în Chimie și Fizică, Universitatea Alexandru Ioan Cuza din Iași,
Facultatea de Chimie, România. Titlul de licențiat în chimie și fizică profilul
chimie universitari, specializarea chimie-fizică. Diplomă de Licență Seria N Nr.
003745, eliberată în baza hotărârii comisiei pentru examenul de licență din
sesiunea iunie 1995. Document eliberat cu Nr. 1020/07.02.1996.
- Studii liceale: 09/1985-06/1989
Bacalaureat, Liceul de Științe ale Naturii, Galați 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.
- Experiență profesională**
09/2014: Profesor universitar doctor, Universitatea Alexandru Ioan Cuza din Iași,
Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie
Analitică. Activități didactice (cursuri, seminarii, laboratoare) și de cercetare.
- 02/2007-09/2014: Conferențiar universitar doctor, Universitatea Alexandru Ioan Cuza din Iași,
Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie
Analitică. Activități didactice (cursuri, seminarii, laboratoare) și de cercetare.
- 07/2003-09/2004: Stagiu post-doctoral la Faculdade de Ciências e Tecnológica Experience
Universidade Nova de Lisboa, Portugalia. Research Training Network, EU
proiect "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 Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică. Activități didactice (cursuri, seminarii, laboratoare) și de cercetare.
- 04/2002-02/2003: Asistent universitar doctor, Universitatea Alexandru Ioan Cuza din Iași, Facultatea de Chimie, Departamentul de Chimie, Laborator de Chimie Analitică, România. Activități didactice (cursuri, seminarii, laboratoare) și de cercetare.
- 03/1998-03/2002: Doctorand în cadrul Departamentului de Chimie Fizică, Bergische Universität GH-Wuppertal, Germania. Activitate de cercetare dedicată investigațiilor de laborator în camere de reacție (investigații cinetice și de mecanisme de degradare în fază gazoasă a compușilor organici aromatici. Exploatare tehnici analitice (FTIR) cu drum optic mărit pentru investigarea comportamentului în fază gazoasă a unor poluanți organici în camere de reacție de dimensiuni mari (camera de reacție din Wuppertal, reactor din quartz de 1080 L). Utilizare tehnici analitice pentru măsurarea intensității radiației solare. Utilizare monitoare NO_x, O₃, SO₂, CO și echipamente de măsurare a aerosolilor. Activități de îndrumare a lucrărilor practice de laborator cu studenți de la Bergische Universität GH-Wuppertal, Germania. În 01/1999 promovare pe funcția de asistent universitar, Universitatea Al.I. Cuza, Iași, Facultatea de Chimie, Departament de Chimie, Laborator de Chimie Analitică, România.
- 10/1996-02/1998: Preparador universitar, Universitatea Alexandru Ioan Cuza din Iași, Facultatea de Chimie, Departament de Chimie, Laborator de Chimie Analitică, România. Activități didactice (seminarii, laboratoare) și de cercetare.

Proiecte de cercetare internaționale/naționale

Director proiecte internaționale

- 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 desfășurare 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 științifică: **EVR1-CT-2001 -40013**; Perioada de desfășurare 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 naționale

- 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. Investigații de laborator într-o cameră de simulare a atmosferei-OLFA-ROA, Valoare proiect **850000,00 RON**.
- 3) Proiect **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) Proiect **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 reținerea unor radionuclizi din mediu pe sorbenți heteropolioxometalați în scopul determinării lor prin cromatografie ionică. Valoare proiect **826717,00 RON**.

Membru în proiecte internaționale

- 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), referința 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 finanțate la nivel național

- 1) Programului Operațional 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-2019-4972 Contract de finanțare nr. 444PED/2020, Fotoliza compușilor nitroaromatici: o nouă sursă de formare a HONO și aerosoli organici secundari în atmosfera PHONIC-HONO-SOA.
- 3) CNFIS-FDI-2018-0102, Cercetarea de Excelență în România în cadrul Centrului CERNESIM (CER-CE).
- 4) 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).
- 5) PN-III-P4-ID-PCE-2016-0807 Investigatii asupra chimiei atmosferice a hidrocarburilor oxigenate ciclice (IGAC-CYCLO).
- 6) PN-III-P2-2.1-PED-2016-1621, Camera de Simulare Atmosferică – Nou Instrument de Cercetare pentru Înțelegerea Oxidării Sesquiterpenelor (CHARUSO).
- 7) PN-II-RU-TE-2014-4-2461, Studii privind oxidarea compușilor aromatici substituiți în condiții de atmosferă simulată // Studies on the Oxidation of Substituted AROMATIC Compounds under Simulated Atmospheric Conditions (SOS-AROMATIC).
- 8) 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).
- 9) CEEEX- 2113 /2006. Tema: Reconstrucția ecologică prin procedee de micoremediere a solurilor degradate de activitățile miniere.
- 10) CEEEX-3089/730. 28.06.2006. Tema: Cercetări privind decolorarea unor soluții de coloranți prin noi procedee oxidative, microbiologice și de sorbție în scopul reabilitării și recirculării apelor uzate din industria textilă.
- 11) INFRAS nr. 210/2.11.2004. Tema: Crearea unei infrastructuri pentru monitorizarea și biomonitorizarea compușilor toxici prezenți în mediu și pentru urmărirea efectului acestora asupra organismelor vii. Acreditarea unui laborator de analiza metalelor grele și a poluanților organici persistenți (POPs).

Domenii de interes pentru cercetare/publicare

Mediu

- Chimia atmosferei.
- Identificarea și cuantificarea poluanților organici și anorganici prezenți în aer, apă, sol.
- Reactivitate și mecanisme de reacție pentru procesele fotochimice induse de speciile radicalice (OH, NO₃, etc.) asupra compușilor organici din aer și apă.
- Tehnici instrumentale adecvate (spectroscopice și cromatografice) pentru identificarea și cuantificarea unor analiți specifici din diverse matrici naturale (aer, apă, sol, matrici biologice)

Materiale noi pentru procese de decontaminare

- Dezvoltarea și caracterizarea unor materiale noi pentru extracție în fază solidă sub formă de faze staționare.

Lucrări elaborate/publicate

- Articole/studii publicate în reviste de specialitate ISI Thomson Reuters: **76**
- Cărți/capitole de cărți: **5/2**
- Articole/studii publicate in extenso, în lucrări ale unor conferințe internaționale de specialitate: **15**
- Alte lucrări și contribuții științifice: **19** publicații în jurnale internaționale și naționale BDI; peste **50** de contribuții la conferințe internaționale și peste **100** de contribuții la conferințe naționale (prezentări orale/postere)
- Număr de citări în reviste cotate ISI: peste **1720** (după Scopus, fără autocitări)
- Factor Hirsch: **19** (fără autocitări)

Alte certificate deținute

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 și etalonări”, conform standardului național SR EN ISO/CEI 17025:2005 identic cu standardul european EN ISO/IEC 17025:2005.
4. Certificat cu nr. de înregistrare TAR-AK/69/02/2010 prin care TUV Austria România confirmă participarea la cursul de instruire „Auditor intern pentru laboratoare de încercări și etalonări conform standardelor ISO 17025:2005 și ISO 19011:2002.

Limbi cunoscute

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

Germana (citit - bine scris-mediu, vorbit - bine).

Experiență de cercetare/Abilități tehnice

Folosirea tehnicilor instrumentale tip FT-IR, Raman, VCD, AAS, UV-vis, Polarografie, Conductometrie, Cromatografie ionică, Cromatografie de gaze, Cromatografie de lichide în diverse aplicații (identificări, calibrări, separări de compuși). Utilizarea camerelor de reacție folosite în scopul studierii reacțiilor compuşilor chimici în fază gazoasă (camerele de simulare a condițiilor atmosferice). Utilizarea unor echipamente analitice de măsurare a intensității radiației solare și de monitorizare a concentrațiilor compuşilor de tipul monoxidului de azot, dioxidului de sulf, ozonului, umiditate și a instrumentelor de contorizare și analiză a distribuției particulelor de aerosoli.

Experiență în partea administrativă a Universității

Membri în Consiliu Facultății de Chimie: din anul 2004-2008, 2008-2016, 2018-2019,

Membri în Senatul Universității „Alexandru Ioan Cuza” din Iași: 2012-2016

Alte aptitudini și competențe

Aptitudini și competențe sociale

Coordonare lucrări licență: **38**

Coordonare lucrări disertație: **33**

Coordonare lucrări de doctorat: **4**

Doctori în Chimie: **2**

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

Aptitudini și competențe organizatorice

Din 2019 director al Centrului Integrat de Studii în Știința Mediului pentru Regiunea de Dezvoltare Nord-Est/(CERNESIM), centru nou înființat în cadrul Universității „Al. I. Cuza” din Iași 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 Calității** în cadrul Laboratorului de analiză instrumentală și chimie analitică (LAICA), laborator acreditat de către RENAR.

Aptitudini și competențe științifice

Capacitate de a interpreta și comunica rezultate științifice

Membri în comitetul științific a conferinței Facultății de Chimie și a Conferinței “Recent Achievements in Organic and Supramolecular Chemistry”.

Membri în Editorial Board Anal. St. ale Univ. Al.I.Cuza Iasi Seria Geologie

Membri în Editorial Board Journal of Liquid Chromatography & Related Technologies

Referent de specialitate pentru articole publicate în jurnale internaționale 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

Iulie 2016: Departamentul de Chimie și Mediu de la Ecole des Mines din Douai, Franța.

Iulie/august 2015: Departamentul de Chimie și Mediu de la Ecole des Mines din Douai, Franța.

Iulie/august 2011: Departamentul de Chimie și Mediu de la Ecole des Mines din Douai, Franța.

Iunie/iulie 2010: Departamentul de Chimie și Mediu de la Ecole des Mines din Douai, Franța.

Iulie 2007: Laboratorul de Chimie Analitică, Universitatea din Torino, Italia.

Iulie 2006: Laboratorul de Chimie Analitică, Universitatea din Torino, Italia.

Membri asociații profesionale

Societatea Română de Chimie din 2005.

Activitatea didactică

Cursuri și laboratoare/seminarii ținute la diverse specializări din cadrul Universității „Al.I.Cuza” din Iași:

- Bazele chimiei analitice (Facultatea de Chimie, Anul I).
- Analiză Instrumentală (Facultatea de Chimie, Anul II).
- Analiză Instrumentală (Facultatea de Chimie, Anul I).
- Abilități 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 calității 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 în faza gazoasă (Facultatea de Chimie, Master Anul II).
- Chimie analitică și practica separării în chimie (Facultatea de Chimie, Anul I).
- Analize de urme (Facultatea de Chimie, Anul III).
- Managementul și legislația mediului (Facultatea de Chimie, Master Anul II).
- Environmetrie - chemometrie aplicată în studiul mediului (Facultatea de Chimie, Master Anul II).
- Sampling și metodologii analitice de investigarea mediului (Facultatea de Chimie, Master Anul I).
- Tehnici și instrumente analitice utilizate în laboratoarele clinice (Facultatea de Chimie, Master Anul I).

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



Iunie- 2023

Lista de lucrări științifice

a) Lista celor 10 lucrări relevante pentru realizările profesionale:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. Galon-Negru, A.G., Olariu, R.I., Arsene, C., Size-resolved measurements of PM_{2.5} water-soluble elements in Iasi, north-eastern Romania: Seasonality, source apportionment and potential implications for human health, *Science of the Total Environment*, 695, 2019.
7. Olariu R.I.*, Barnes I., Bejan I., Arsene C., Vione D., Klotz B., Becker K.H. FT-IR product study of the reactions of NO₃ radicals with ortho -, meta -, and para-cresol, *Environmental Science and Technology*, 47(14), 7729-7738, 2013.
8. Cecilia Arsene, Romeo Iulian Olariu, Pavlos Zarmpas, Maria Kanakidou, Nikolaos Mihalopoulos, Ion composition of coarse and fine particles in Iasi, north-eastern Romania: Implications for aerosols chemistry in the area, *Atmospheric Environment* 45, 906-916, 2011.
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) Cărți și capitole în cărți:

1. Cecilia Arsene și 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 în 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, Sulfur in atmosphere, Editura Tehnica, Științifică și Didactică, 198 p., ISBN: 973-8188-87-3, CERMI, Iasi, 2003.
6. Romeo Iulian Olariu, Cecilia Arsene, Degradarea atmosferică 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 științific internațional
ISI-în străinătate**

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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.
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