

CURRICULUM VITAE

PUBLIC INFORMATION

ARSENE Cecilia



"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, 11 Carol I, 700506 Iasi, Romania



+40-232-201354 (institutional)



carsene@uaic.ro

Gender Female

Nationality Romanian

CURRENT AFFILIATIONS

POSITION

/ Professor, PhD Habil.

¹Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, "Alexandru Ioan Cuza" University of Iasi, 11 Carol I, 700506 Iasi, Romania

²Research Centre with Integrated Techniques for Atmospheric Aerosol Investigation in Romania, RECENT AIR, "Alexandru Ioan Cuza" University of Iasi, 11 Carol I, 700506 Iasi, Romania

³Integrated Centre of Environmental Science Studies in the North Eastern Region – CERNESIM, Romania, "Alexandru Ioan Cuza" University of Iasi, 11 Carol I, 700506 Iasi, Romania

EDUCATION AND TRAINING

07/04/2014

Habilitation

Defence of the Habilitation Thesis "Progress in Environmental Chemistry. Laboratory and Field Interrelated Studies" on February 14th 2014 at the "Alexandru Ioan Cuza" University of Iasi, Recognition of the Habilitation degree by the Ministerial Order No. 166/07.04.2014, The General Department for Higher Education, Romanian Ministry of Education and Scientific Research; Habilitated to coordinate PhD students in the Chemistry research area.

07/2005 - 07/2007

Postdoctoral research

Postdoctoral Fellow at the University of Crete, Heraklion, Greece, Environmental Chemical Processes Laboratory through the Marie Curie Intra-European Fellowship Action within the FP6 Programme (Project proposal *Evaluation of the Chemical Impact of Aerosols in the Mediterranean Area* (ECITAMA), Project ID no. MEIF-CT-2005-009578).

03/1998 – 03/2002

Doctoral studies

Doctoral fellowship undertaken at the Bergische Universität Gesamthochschule Wuppertal, Department of Physical Chemistry, Germany; Defence of the PhD Thesis *Atmospheric Degradation Mechanism of Organic Sulphur Compounds* on December 14th 2001; "Magna cum Laude"; PhD Diploma with the title of „Doktors der Naturwissenschaften“ (Dr. Rer. Nat.) emitted on December 14th, 2001, by the Bergische Universität Gesamthochschule Wuppertal, Germany. Recognition by the Romanian Ministry of Education and Scientific Research of the PhD Diploma through the certificate No. 2921/11.11.2002.

10/1995 - 06/1996

Master of Science

Master Program in *Inorganic Chemistry – Synthesis, Structure and Reactivity of Inorganic Compounds* at the "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry. Master thesis defence in June 1996. Master certificate Serial No. B 0001927.

10/1990-06/1995

Bachelor degree

Bachelor in Chemistry at the "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Romania. Bachelor thesis defence in June 1995. Chemist. Bachelor certificate Serial No. N 004327.

09/1985-06/1989 **Baccalaureate**

Petru Rares High School of Mathematics and Physics, Piatra Neamt, Neamt, Romania. Graduation exams undertaken in June 1989. Baccalaureate certificate Serial No. G 47052

WORK EXPERIENCE

ACADEMIC CAREER

02/2015 – present **Professor, PhD Habil.**

Professor at the "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, 11 Carol I, 700506 Iasi, Romania

<https://www.chem.uaic.ro/ro/conducere/chanalitica.html>

Teaching and educational activities (lectures, seminars, laboratory application); Research activities; Coordinator of bachelor, master and PhD students

02/2013 – 02/2015 **Associated professor, PhD**

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Romania

Teaching and educational activities (lectures, seminars, laboratory application); Research activities; Coordinator of bachelor and master students

02/2003 – 02/2013 **University Lecturer, PhD**

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Romania

Teaching and educational activities (lectures, seminars, laboratory application); Research activities; Coordinator of bachelor and master students

02/1999 – 02/2003 **Assistant professor / PhD**

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Romania; Bergische Universität Gesamthochschule Wuppertal, Department of Physical Chemistry, Germany

Teaching and educational activities (seminars, laboratory application with bachelor students at Bergische Universität Gesamthochschule Wuppertal, Department of Physical Chemistry, Germany)

10/1996 – 02/1999 **Assistant**

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Romania, <http://www.uaic.ro/>

Teaching activities (seminar, and laboratory application); Research activities.

MANAGEMENT & LEADERSHIP

2024 – present **Member** of the Executive Board of ICI UAIC, of the Scientific Council of ICI UAIC and of the Department of Exact Sciences and Natural Sciences (DS), The Institute of Interdisciplinary Research <https://ici.uaic.ro/en/management/>

08/2024 – present **Coordinator** of the *Research Centre with Integrated Techniques for the Aerosols Investigations in Romania* (RECENT AIR), <https://ici.uaic.ro/en/recent-air-center/>

2022 – present **Member** of the Doctoral School Council at the institutional level, "Alexandru Ioan Cuza" University of Iasi, <https://www.uaic.ro/organizare/consiliul-studiilor-de-doctorat/>

09/2020 – 12/2023 **Director** of the SMIS ID 127324 project, *Research Center with Integrated Techniques for the Aerosols Investigation in Romania* (acronym RECENT AIR), worthy of 19,371,719.82 EUR as non-reimbursable EU financial support, implemented at the "Alexandru Ioan Cuza" University of Iasi under the Contract no. 322/04.09.2020, within the Competitiveness Operational Program 2014-2020.

A project aimed to open at the "Alexandru Ioan Cuza" University of Iasi a new research area in the field of aerosols research, in full compliance with *Domain 3: Energy, Environment and Climate Change, Subdomain 3.2: Environment and Climate Change, Sector 3.2.2: Managing the risk induced by climate change on resources*. Ministry of European Investments and Projects, Competitiveness Operational Program 2014-2020

- 08/2017 – present **Director of the Doctoral School in Chemistry**, Institute of Advanced Doctoral University Studies, "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, <https://www.chem.uaic.ro/en/doctoral/leadership.html>
- 2017 – present **Member** of the Doctoral School of Chemistry Council, "Alexandru Ioan Cuza" University of Iasi, Romania, <https://www.chem.uaic.ro/en/doctoral/leadership.html>
- 2017 – 2019 **Director** for the *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) Project, UEFISCDI, Romania, PN-III-P4-ID-PCE-2016-0299, Contract no. 37/2017, 850,000.00 lei / 200,333.33 EUR, <https://sites.google.com/site/aiforecast2017/>
- 2014 – 2020 **Member** of the ethics committee for education and research, "Alexandru Ioan Cuza" University of Iasi, Romania, 02/2014-02/2017
- 2012 – 2015 **Member** of the Faculty of Chemistry Council, "Alexandru Ioan Cuza" University of Iasi
- 2011 – 2016 **Director** for the *Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania* (EVOLUTION-AIR) Project, UEFISCDI, Romania, PN-II-ID-PCE-2011-3-0471, Contract no. 200/05.10.2011, 1,050,000.00 lei / 241.333.34 EUR, <https://sites.google.com/site/evolutionair2011/>
- 10/2008 – present **Head of the LAICA unit** (Laboratory of Analytical and Instrumental Chemical Analysis) at the "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, with an implemented quality management system (EN ISO CEI 17025/2005) certified by the Romanian Association for Accreditation, RENAR, by the Certificate No. LI 820/05.10.2009; Decision no. 19631/17.10.2008 emitted by the Rector of the "Alexandru Ioan Cuza" University of Iasi.
- 2007 – 2010 **Director** for the *Intensive Characterisation of Atmospheric Aerosols in the North-Eastern Romania at Various Urban Sites* (ICAARUS), Project, MERG-CT Action within the FP7 Programme, Project code MERG-CT-2007-203934, <https://cordis.europa.eu/project/id/203934>
- 2006 – 2008 **Director** for the *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) Project, Romanian Authority for Research, Bilateral Romania-Italy, C18002/09.01.2006, 15,000.00 EUR, n.a.
- 2007 – 2009 **Director** for the *Chemical Composition of Atmospheric Aerosols in the North-Eastern Romania* Project, NATO ESP.EAP.CLG.98258/2007, 20,000.00 EUR, n.a.

RESEARCH ABROAD

- 06/2023 **Visiting professor**
Institute für Energie und Klimaforschung, IEK-8: Troposphäre, Forschungszentrum Jülich GmbH, Germany
- 07/2017-08/2017 **Visiting professor**
Laboratory of Excellence CaPPA - Chemical and Physical Properties of the Atmosphere, CNRS, Université Lille Sciences et technologies, IMT Lille Douai, ULCO, CNES, France
- 08/2011 - 09/2011 **Visiting professor**

The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai,
941 rue Charles Bourseul, 59508 Douai, Cedex, France

07/2005 - 07/2007 Postdoctoral fellow

University of Crete, Heraklion, Greece, Environmental Chemical Processes Laboratory by the Marie Curie Intra-European Fellowship Action within the FP6 Programme (project MEIF-CT-2005-009578 ECITAMA, *Evaluation of the Chemical Impact of Aerosols in the Mediterranean Area*)

03/1998 - 03/2002 PhD fellow

Bergische Universität Gesamthochschule Wuppertal, Department of Physical Chemistry, Germany; The research subject *Atmospheric Degradation Mechanism of Organic Sulphur Compounds*

Research areas

Analytical Chemistry / Environmental Chemistry
Air, Soil, Water Pollution
Chromatographic and Mass Spectrometric Techniques (IC, HPLC, GC, HPLC-MS, GC-MS)
Atmospheric Aerosols Chemistry and Secondary Organic Aerosols
Gas Phase Reactivity
Health Impact

MOST RELEVANT 5 PEER-REVIEWED PUBLICATIONS ON ATMOSPHERIC AEROSOLS / BIOAEROSOLS (CORRESPONDING AUTHOR*) – research articles selected from those published over the last decade of scientific research activity

- 1) *Seasonality, sources apportionment, human health risks assessments, and potential implications on the atmospheric chemistry of polycyclic aromatic hydrocarbons in size-segregated aerosols from a Romanian metropolitan area*
Cornelia Amarandei; Alina Giorgia Negru; Cristina Iancu; Romeo Iulian Olariu; [Cecilia Arsene*](#)
(2024) *Chemosphere*, 143738, Journal article, DOI: [10.1016/j.chemosphere.2024](#), Elsevier Publisher
- 2) *First insights into the molecular characteristics of atmospheric organic aerosols from Iasi, Romania: Behavior of biogenic versus anthropogenic contributions and potential implications*
Cornelia Amarandei; Romeo Iulian Olariu; [Cecilia Arsene*](#),
(2023) *Science of The Total Environment*, Volume 877, 162830, DOI: [10.1016/j.scitotenv.2023.162830](#), Elsevier Publisher
- 3) *Size-resolved measurements of PM_{2.5} water-soluble elements in Iasi, north-eastern Romania: Seasonality, source apportionment and potential implications for human health*
Alina-Giorgiana Galon-Negru; Romeo Iulian Olariu; [Cecilia Arsene*](#)
(2019) *Science of the Total Environment*, Volume 695, 133839, Journal article, Elsevier Publisher, DOI: [10.1016/j.scitotenv.2019.133839](#), EID: 2-s2.0-85070623848
- 4) *First insights into the new particle formation and growth at a north-eastern Romanian urban site, Iasi. Potential health risks from ultrafine particles*
Alina Giorgia Negru; Romeo Iulian Olariu; [Cecilia Arsene*](#)
(2024) *Atmospheric Pollution Research*, Volume 15, Issue 11, 102257, Journal article, DOI: [10.1016/j.apr.2024.102257](#), Science Direct Publisher
- 5) *First chemical insights into airborne microbial communities isolated from ambient particulate matter in the Iasi urban area, north-eastern Romania*
Cristina Iancu; Cornelia Nita; Laurentiu Valentin Soroaga; Alina Giorgia Negru; Romeo Iulian Olariu; [Cecilia Arsene*](#)
(2025) *Journal of Liquid Chromatography & Related Technologies*, Journal article, Taylor & Francis Publisher, DOI: [10.1080/10826076.2025.2554062](#), Part of ISSN: 1082-6076

OTHER RELEVANT PUBLICATIONS (research articles)

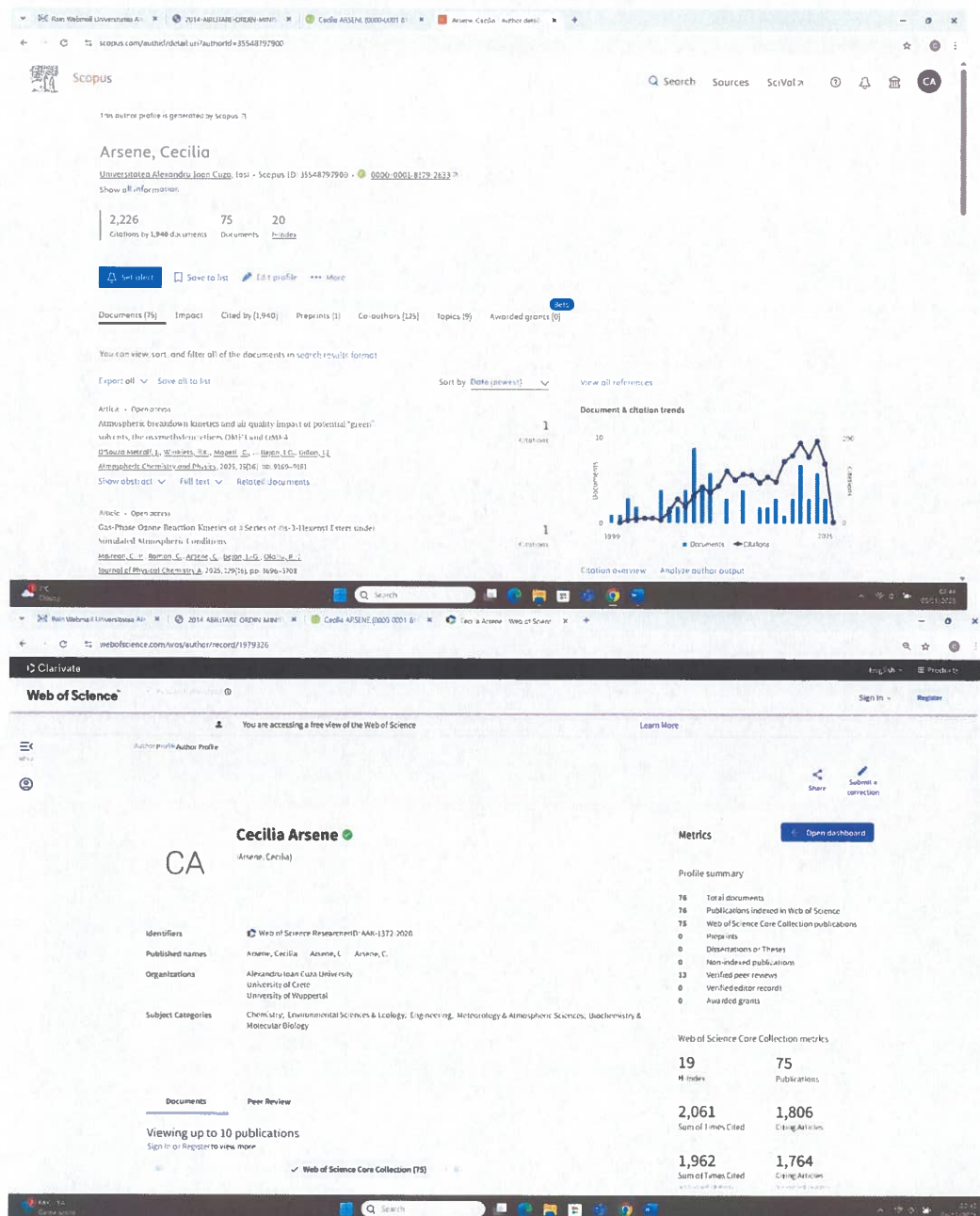
- 1) *Offline analysis of secondary formation markers in ambient organic aerosols by liquid chromatography coupled with time-of-flight mass spectrometry*, Cornelia Amarandei; Romeo Iulian Olariu; [Cecilia Arsene*](#), (2023) *Journal of Chromatography A*, Volume 1702, 464092, Journal article, Elsevier Publisher, DOI: [10.1016/j.chroma.2023.464092](#)
- 2) *Assessment of the Anthropogenic Impact and Distribution of Potentially Toxic and Rare Earth Elements in Lake Sediments from North-Eastern Romania*, Laurentiu Valentin Soroaga; Cornelia Amarandei; Alina Giorgia Negru; Romeo Iulian Olariu; [Cecilia Arsene*](#), (2022) *Toxics*, Volume 10(5), 242, Journal article, MDPI Publisher, DOI: [10.3390/toxics10050242](#)
- 3) *Assessment of Surface Water Quality in the Podu Iloaiei Dam Lake (North-Eastern Romania): Potential Implications for Aquaculture Activities in the Area*, Cornelia Amarandei; Alina-Giorgiana Negru; Laurentiu-Valentin Soroaga; Simona Cucu-Man; Romeo-Iulian Olariu; [Cecilia Arsene*](#), (2021) *Water*, Volume 13(17), 2395, Journal article, MDPI Publisher, DOI: [10.3390/w13172395](#)
- 4) *Chemical characteristics of size-resolved atmospheric aerosols in Iasi, north-eastern Romania: Nitrogen-containing inorganic compounds control aerosol chemistry in the area*, Giorgia Galon-Negru, A.; Iulian Olariu, R.; [Cecilia Arsene*](#), (2018) *Atmospheric*

- Chemistry and Physics*, Volume 18, 5879–5904, Journal article, European Geosciences Union Publisher, DOI: [10.5194/acp-18-5879-2018](https://doi.org/10.5194/acp-18-5879-2018), EID: 2-s2.0-85046017181
- 5) *Investigation of the dynamics and kinetics involved in saline aerosol generation under air erosion of pure and contaminated halide salts*, Ion Sandu; Romeo Iulian Olariu; Ioan Gabriel Sandu; Constantin Stirbu; Constantin Pascu; Viorica Vasilache; Davide Vione; **Cecilia Arsene***, (2015) *Journal of Aerosol Science*, Volume 81, 100-109, Journal article, Elsevier Science Direct Publisher, DOI: [10.1016/j.jaerosci.2014.12.003](https://doi.org/10.1016/j.jaerosci.2014.12.003), EID: 2-s2.0-84920188676

ADDITIONAL INFORMATION

Publications and impact

75 articles published in peer-reviewed journals with ISI factor
2226 total citations (Scopus source) and 2061 total citations (WoS source)
h index 20 (Scopus source); H index 19 (Web of Science source)



Public information

<https://orcid.org/0000-0001-8179-2633>
<https://www.scopus.com/authid/detail.uri?authorId=35548797900>

	https://www.webofscience.com/wos/author/record/1979326 https://scholar.google.com/citations?hl=ro&user=iG411oIAAAA https://www.brainmap.ro/cecilia-arsene https://www.researchgate.net/profile/Cecilia_Arsene
Other achievements	5 books (2 in English, 3 in Romanian language, details in the CV's Annex) Invited talks 25 Participation with 69 contributions as conferences / plenary lectures / oral talks / seminars in actions organised at international level (with proceedings) Participation with 207 contributions as conferences / plenary lectures / oral talks / seminars in actions organised at national level (with proceedings)
Attracted funds and participation in research projects	- o Participation in 29 research programs - o 8 projects coordinated as Director (5 from international programs and 3 from national programs), with a total of 20,042,220.49 EUR accessed financial amount.
National and international recognition	- o Referee of scientific articles in more than 20 international journals (<i>Atmospheric Chemistry and Physics</i>, <i>Atmospheric Environment</i>, <i>Chemosphere</i>, <i>Atmospheric Research</i>, <i>Journal of Environmental Analytical Chemistry</i>, <i>Environmental Chemistry Letters</i>, <i>Journal of Liquid Chromatography & Related Technologies</i>, etc), for about 100 scientific articles - o Member in the Editorial Board Journal of <i>Liquid Chromatography & Related Technologies</i> https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=ljlc20 - o Editor for 3 specially edited numbers in <i>Acta Chemica Iasi</i> (https://www.chem.uaic.ro/ro/acta-chemica/acta_chemica.html) - o Referee/expert in the evaluation process of project proposals submitted within: 1) PN-III-P2-2.1-PTE-2021 (peer review activity in 2021) 2) PN-III-P1-1.2-PCCDI-2017 (peer review activity in 2017) 3) PE-PN-III-P1-1.1-TE-2016 (peer review activity in 2017) 4) PE-PN-III-P1-1.1-PD-2016 (peer review activity in 2017) 5) Nucleu Core Program (peer review activity in 2016) 6) PN-II-RU-TE-2011-3 Action (peer review activity in 2014) 7) PN-II-PT-PCCA-2013-4 Action (peer review activity in 2013) - o Evaluator/Examination of PhD thesis in other Romanian Universities: 1) Babes-Bolyai University, Cluj Napoca, Romania (2) 2) Gheorghe Asachi Technical University, Iasi, Romania (1) 3) Grigore T Popa University of Medicine and Pharmacy, Iasi, Romania (1) - o Evaluator/Examination of Habilitation thesis 1) Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania (1) 2) Babes-Bolyai University, Cluj Napoca, Romania (1) - o Conferences chair, President of the organisation committee and member of Scientific committee for conferences: 1) 2024 – present, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready for Europe – RARE, Conference Chair, https://recent-air.uaic.ro/rare2025.php?menu=conferenceMenu 2) 2018 – 2024: IasiCHEM Conference, Iasi, Romania. President of the organising committee https://www.chem.uaic.ro/files/File/iasichem/2024-CONFERINTA-FACULTATII-CHIMIE-CIRCULARA-2024-10-07.pdf https://www.chem.uaic.ro/files/File/2018-2019/conferinta-facultatii-de-chimie/2018-conferinta-facultatii-chimie-circulara-02.pdf 3) 2018 – 2025: The Scientific Session of Undergraduate, Master and PhD Students, President of the organising committee https://www.chem.uaic.ro/files/File/2024-2025/scsmd-19-iunie-2025/circulara-2-scsmd_ro_2025.pdf

https://www.chem.uaic.ro/files/File/2017-2018/scsmd2018/circulara-2-scsmd_ro_09-05-2018.pdf

- 4) 2017: 1st SCIENVIR International Conference, Scientific Convergence and Interdisciplinarity in EU Environmental Research, Iasi, Romania, Member of the Scientific Committee

<http://scienvir.uaic.ro/public/site/images/admin/SCIENVIR%202017%20Conference%20programme.pdf>

Awards 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

SKILLS / COMPETENCES

Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	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

- Organisational / managerial skills**
- o Good at communicating for making sure everyone has a clear understanding of their own responsibilities and duties in the coordinated workplaces
 - o Great power of adaptability to circumstances changes while still working
 - o Highly organised and focussed on tasks for an appropriate time management (schedule, appointments, planning / adapting plans)
 - o Ability to delegate work to others upon their competences
 - o Focussed on the main work goal such as to ensure its success
 - o Ability to set and surpass strategic goals
 - o Opened in mind and soul for collaboration and for creating opportunities to bounce ideas off of one other

- Administrative skills**
- o Ability to coordinate various teams' members work (e.g., under RECENT AIR: 28 members of the management team, 21 collaborators, 30 researchers)
 - o Ability to work in a multidisciplinary and multifunctional team, to work with deadlines, to propose highly efficient filling worksheets and paperwork, to establish working routes
 - o Ability to extract meaningful information for presenting important information to the coordinated teams and others
 - o Ability to generate clear reports with traceable information and to present important information
 - o Ability to communicate and meet with internal and external stakeholders
 - o Highly responsible in direct relation with the object's activity

- Teaching and training skills**
- Lectures in:
- o Sampling and methodologies in environmental investigation, Quality control in chemical analysis, Instrumental strategies applied in chemical system investigation, Chemometrics applied in environmental investigation
 - o Fundamental concepts and recent developments in chemistry, Management of innovative research methodologies in chemistry, Academic writing and dissemination of research results, Experimental techniques and data handling in chemistry, Ethics and academic integrity, Ethics and academic integrity - Ethics in scientific research
 - o Separation methods, Trace analysis, Modern analysis methods in medicinal chemistry, Chromatographic techniques in drugs and cosmetic products analysis, Analytical chemistry methods in forensic chemistry

- | | |
|---|--|
| Coordination skills | <ul style="list-style-type: none"> ○ Coordination and supervision of 4 PhD students (1 cotutele), 3 with PhD Diploma ○ Coordination and supervision of 18 MSc students, 18 with MSc Diploma ○ Coordination and supervision of more than 25 undergraduate students: 25 with Bachelor Diploma |
| Certificated abilities/competences | <ul style="list-style-type: none"> ○ Certificate for successful attendance of the "Application training session on the multi N/C 3100 and selected accessory modules", by Analytic Jena certified to DIN EN ISO 9001:2000, 2013. ○ Certificate for successful attendance of the "Application training session on the contrAA 700 and novAA 350", by Analytic Jena certified to DIN EN ISO 9001:2008, 2014. ○ Certificate for successful attendance of "Water Analysis-2011, The 7th South-Eastern European Interlaboratory Study", June 2011-December 2011. ○ Certificate for successful attendance of the "General requirements for the competence of testing and calibration laboratories" course, according to the national standard SR EN ISO/CEI 17025:2005, identical with the European Standard EN ISO/IEC 17025:2005, TUV Rheinland Romania, 2010. ○ Certificate for successful attendance of „Internal auditor for testing and calibration laboratories" course, in agreement with the requirements of the ISO 17025:2005 and ISO 19011:2002 standards, TUV Austria Romania, 2010. |
| Communication skills | Ability to interpret and communicate scientific data; Ability to address scientific issues to a broad audience; Clear expression of requirements for the coordinated team members |
| Other skills | Mind flexibility/versatility, Honesty |

ANNEXES

- Annex 01** List of publications and scientific contributions

Date,
February 2026

Cecilia ARSENE, Professor

Annex 1: List of publications and scientific contributions

1 Publication list (* - corresponding author)

1.1 Peer-reviewed publications

1. Iancu, C., Nita, C., Soroaga, L.V., Negru, A.G., Olariu, R.I., [Arsene, C.*](#), First chemical insights into airborne microbial communities isolated from ambient particulate matter in the Iasi urban area, north-eastern Romania, 2025, WOS:001567397400001, <https://doi.org/10.1080/10826076.2025.2554062>
2. D'Souza Metcalf, J., Winkles, R.K., Mapelli, C., McElroy, C.R., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Dillon, T.J., Atmospheric breakdown kinetics and air quality impact of potential "green" solvents, the oxymethylene ethers OME3 and OME4, Atmos. Chem. Phys., 25, 9169–9181, 2025. <https://doi.org/10.5194/acp-25-9169-2025>
3. Mairean, C.P., Roman, C., Arsene, C., Bejan, I.G., Olariu, R.I., Gas-phase ozone reaction kinetics of a series of cis-3-hexenyl esters under simulated atmospheric conditions, Journal of Physical Chemistry A, 129, 3696–3708, 2025. <https://doi.org/10.1021/acs.jpca.5c01004>
4. Amarandei, C., Negru, A.G., Iancu, C., Olariu, R.I., [Arsene, C.*](#), Seasonality, sources apportionment, human health risks assessments, and potential implications on the atmospheric chemistry of polycyclic aromatic hydrocarbons in size-segregated aerosols from a Romanian metropolitan area, Chemosphere, 368, 143738, 2024. <https://doi.org/10.1016/j.chemosphere.2024.143738>
5. Galon-Negru, A.G., Olariu, R.I., [Arsene, C.*](#), First insights into the new particle formation and growth at a north-eastern Romanian urban site, Iasi. Potential health risks from ultrafine particles, Atmospheric Pollution Research, 15(11), 102257, 2024. <https://doi.org/10.1016/j.apr.2024.102257>
6. Rusu (Vasilache), A.-M., Roman, C., Bejan, I.G., [Arsene, C.](#), Olariu, R.I., Gas-phase reaction kinetic study of a series of methyl-butenols with ozone under atmospherically relevant conditions, Journal of Physical Chemistry A, 128, 6745–6756, 2024. <https://doi.org/10.1021/acs.jpca.4c03653>
7. Mairean, C.P., Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Gas-phase kinetics of a series of cis-3-hexenyl esters with OH radicals under simulated atmospheric condition, Journal of Physical Chemistry A, 128, 6274–6285, 2024. <https://doi.org/10.1021/acs.jpca.4c03069>
8. 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. <https://doi.org/10.1021/acs.jpca.4c02287>
9. 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>
10. 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, 162830, 2023. [10.1016/j.scitotenv.2023.162830](https://doi.org/10.1016/j.scitotenv.2023.162830)
11. [Arsene, C.](#), Bejan, I.G., Roman, C., Olariu, R.I., Minella, M., Passananti, M., Vione, V., Evaluation of the environmental fate of a semivolatile transformation product of ibuprofen based on a simple two-media fate model, Environmental Science and Technology, 56, 15650–15660, 2022. <https://doi.org/10.1021/acs.est.2c04867>
12. Mapelli, C., Schleicher, J.V., Hawtin, A., Rankine, C.D., Whiting, F.C., Byrne, F., McElroy, C.R., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Dillon, T.J., Atmospheric breakdown chemistry of the new "green" solvent 2,2,5,5-tetramethyloxolane via gas-phase reactions with OH and Cl radicals, Atmospheric Chemistry and Physics, 22, 14589–14602, 2022. <https://doi.org/10.5194/acp-22-14589-2022>
13. Soroaga, L.V., [Arsene, C.](#), Borgia, 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 N₂O₂ sintering and ICP-MS analysis, Analytical Sciences, 2022 <https://doi.org/10.1007/s44211-022-00172-w>
14. Grira, A., Amarandei, C., Roman, C., Bejaoui, O., Aloui, N., El Dib, G., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Canosa, C., Tomas, A., Gas-phase ozone reaction kinetics of C5–C8 unsaturated alcohols of biogenic interest, Journal of Physical Chemistry A, 126, 4413–4423, 2022, <https://doi.org/10.1021/acs.jpca.2c02805>
15. Roman, C., [Arsene, C.](#), Bejan, G.I., Olariu, R.I., Investigations on the gas-phase photolysis and OH radical kinetics of nitrocatechols: implications of intramolecular interactions on their atmospheric behaviour, Atmospheric Chemistry and Physics, 22, 2203–2219, 2022. <https://doi.org/10.5194/acp-22-2203-2022>
16. Soroaga, L.V., Amarandei, C., Negru, A.G., Olariu, R.I., [Arsene, C.*](#), Assessment of the anthropogenic impact and distribution of potentially toxic and rare earth elements in lake sediments from north-eastern Romania, Toxics, 10(5), 242, 2022. <https://doi.org/10.3390/toxics10050242>

17. Roman, C., Roman, T., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Gas-phase IR cross-sections and single crystal structures data for atmospheric relevant nitrocatechols, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 265, 120379, 2022, <https://doi.org/10.1016/j.saa.2021.120379>
18. Amarandei, C., Negru, A.G., Soroaga, L.V., Cucu-Man, S.M., Olariu, R.I., [Arsene, C.*](#), Assessment of surfacewater quality in the Podu Iloaiei Dam Lake (North-Eastern Romania): Potential implications for aquaculture activities in the area, *Water* 2021, 13, 2395. <https://doi.org/10.3390/w13172395>
19. Sandu, M.C., Soroaga, L.V., Balaban, S.I., Chelariu, C., Chiscan, O., Iancu, G.O., [Arsene, C.](#), Olariu, R.I., Trace elements distribution in stream sediments of an abandoned U mining site in the Eastern Carpathians, Romania, with particular focus on REEs, *Geochemistry* 81(2021)125761, <https://doi.org/10.1016/j.chemer.2021.125761>
20. Grira, A., Amarandei, C., Romanias, M.N., El Dib, G., Canosa, A., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Coddeville, P., Tomas, A., Kinetic measurements of Cl atom reactions with C5–C8 unsaturated alcohols, *Atmosphere*, 11, 256; 2020, <https://doi.org/10.3390/atmos11030256>
21. 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, 133839, 2019. <https://doi.org/10.1016/j.scitotenv.2019.133839>
22. Coman-Babusanu, A.C., Olariu, R.I., Butnaru, E., [Arsene C.*](#), Dissipation kinetics of tebuconazole on *Malus domestica* (Golden Delicious and Jonathan) in an apple orchard from north-eastern Romania, *Journal of Liquid Chromatography and Related Technologies*, 42, 582-592, 2019 <https://doi.org/10.1080/10826076.2019.1642918>.
23. Humelnicu, D., Soroaga, L.V., [Arsene C.](#), Humelnicu, I., Olariu, R.I., Adsorptive performance of soy bran and mustard husk towards arsenic (V) ions from synthetic aqueous solutions, *Acta Chimica Slovenica*, 66, 326-336, 2019, <https://doi.org/10.17344/acsi.2018.4821>.
24. Galon-Negru, 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. <https://doi.org/10.5194/acp-18-5879-2018>
25. 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-tuberculosis drugs, *Revista de Chimie*, 69, 3590-3592, 2018, <https://doi.org/10.37358/RC.18.12.6799>.
26. 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.
27. 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, <https://doi.org/10.37358/RC.17.9.5846>.
28. Potolinca, 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, <https://doi.org/10.37358/MP.17.1.4813>.
29. 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, <http://dx.doi.org/10.1016/j.jaerosci.2014.12.003>.
30. 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, <https://doi.org/10.1080/10826076.2014.941256>.
31. Braure, T., Riffault, V., Tomas, A., Olariu, R.I., [Arsene, C.](#), Bedjanian, Y., Coddeville, P., Ozonolysis of a series of methylated alkenes. Reaction rate coefficients and gas-phase products, *International Journal of Chemical Kinetics*, 47, 596-605, 2015, <https://doi.org/10.1002/kin.20934>.
32. Negru, A.G., [Arsene, C.](#), Zbancioc, A.M., Mangalagiu, I.I., Olariu, R.I., Physico-chemical behaviour of newly synthesised macrocyclic compounds. A reality between expectations and experimental evidences, *Revista de Chimie Bucharest*, 66, 1339-1342, 2015.
33. Pindaru, D.M., Tanase, C., Olariu, R.I., [Arsene, C.*](#), Chemical composition and ions concentrations in *Xanthoria Parietina* and *Phaeosphyscia orbicularis* lichenised fungi species from Iasi, north-eastern Romania, *Revista de Chimie, Bucharest*, 64, 808-814, 2013.
34. Pindaru, D.M., Tanase, C., Olariu, R.I., [Arsene, C.*](#), Extra and intercellular concentrations of water-soluble cations from *Xanthoria Parietina* and *Phaeosphyscia orbicularis* lichenised fungi species, *Revista de Chimie, Bucharest*, 64, 715-719, 2013.
35. Olariu, R.I., Barnes, I., Bejan, I., [Arsene, C.](#), Vione, D., Klotz, B., Becker, K.H., FTIR product study of the reactions of NO₃ radicals with ortho-, meta-, and para-cresol, *Environmental Science and Technology*, 47, 7729-7738, 2013. <https://doi:10.1021/es401096w>

36. [Arsene, C.](#), Vione, D., Grinberg, N., Olariu, R.I., GCxGC-MS hyphenated techniques for the analysis, of volatile organic compounds in air, *Journal of Liquid Chromatography & Related Technologies*, 34, 1077–1111, 2011. <https://doi.org/10.1080/10826076.2011.587749>
37. Cernat, R.I., Mihaescu, T., Vornicu, M. Vione, D., Olariu, R.I., [Arsene, C.*](#), Serum trace metal and ceruloplasmin variability in individuals treated for pulmonary tuberculosis, *International Journal of Tuberculosis and Lung Diseases*, 15, 1239-1245, 2011. <https://doi.org/10.5588/ijtld.10.0445>
38. [Arsene, C.*](#), Olariu, R.I., Zarnpas, P., Kanakidou, M., Mihalopoulos, N., 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. <https://doi.org/10.1016/j.atmosenv.2010.11.013>
39. Gherasim, C.V., Bourceanu, G., Olariu, R.I., [Arsene, C.](#), A novel polymer inclusion membrane applied in chromium (VI) separation from aqueous solutions, *Journal of Hazardous Materials*, 197, 244-253, 2011. <https://doi.org/10.1016/j.jhazmat.2011.09.082>
40. Gherasim, C.V.I., Bourceanu, G., Olariu, R.I., [Arsene, C.](#), Removal of lead(II) from aqueous solutions by a polyvinyl-chloride inclusion membrane without added plasticizer, *Journal of Membrane Science*, 377(1-2), 167-174, 2011. <https://doi.org/10.1016/j.memsci.2011.04.042>
41. Stefanescu, I.A., Gavrilă, L., Mocanu, R.D., Olariu, R.I., [Arsene, C.*](#), Bioremediation perspective of *Bacillus Megaterium* towards heavy metals in environments enriched with phosphogypsum, *Revista de Chimie*, 62, 245-249, 2011.
42. Olariu, R.I., Vione, D., Grinberg, N., [Arsene, C.*](#), Sample preparation for trace analysis by chromatographic methods, *Journal of Liquid Chromatography & Related Technologies*, 33, 1174-1207, 2010. <https://doi.org/10.1080/10826076.2010.484371>
43. Olariu, R.I., [Arsene, C.](#), Humelnicu, D., Duncianu, M., Mantu, D., Investigation on environmental radionuclide retention on hetero-polioxo-metallic sorbents for radionuclide analysis by ionic chromatography, *International Journal of Conservation Science*, 1, 248, 2010.
44. Cernat, R.I., Mocanu, R.D., Popa, E., Sandu, I., Olariu, R.I., [Arsene, C.*](#), Investigation of chemical parameters in biological systems, *Revista de Chimie*, 61, 1130-1135, 2010.
45. Humelnicu, D., [Arsene, C.](#), Burghel, B., Bertescu, M., Humelnicu, I., Sandu, I., Mantu, D., Olariu, R.I., Interaction of actinide cations with heteropolytungstate ions $[\text{SiW}_{11}\text{O}_{39}]^{8-}$ and $[\text{SiW}_{12}\text{O}_{40}]^{4-}$, *Revista de Chimie*, 61, 841-844, 2010.
46. [Arsene, C.*](#), Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, *Global NEST Journal*, 11, 333-340, 2009.
47. Vione, D., Khanra, S., Cucu Man, S., Maddigapu, P.R., Das, R., [Arsene, C.](#), Olariu, R.I., Maurino, V., Minero, C., Inhibition vs. enhancement of the nitrate-induced phototransformation of organic substrates by the OH scavengers' bicarbonate and carbonate, *Water Research*, 43, 4718 – 4728, 2009. <https://doi.org/10.1016/j.watres.2009.07.032>
48. Vione, D., Maurino, V., Minero, C., Duncianu, M., Olariu, R.I., [Arsene, C.](#), Sarakha, M., Mailhot, G., Assessing the transformation kinetics of 2- and 4-nitrophenol in the atmospheric aqueous phase. Implications for the distribution of both nitroisomers in the atmosphere, *Atmospheric Environment*, 43, 2321-2327, 2009. <https://doi.org/10.1016/j.atmosenv.2009.01.025>
49. Vione, D., Lauri, V., Minero, C., Maurino, V., Malandrino, M., Carlotti, M.E., Olariu, R.I., [Arsene, C.](#), Photostability and photolability of dissolved organic matter upon irradiation of natural water samples under simulated sunlight, *Aquatic Sciences*, 71, 34-45, 2009. <https://doi.org/10.1007/s00027-008-8084-3>
50. Humelnicu, D., Olariu, R.I., Sandu, I., Humelnicu, I., Sandu, A.V., [Arsene, C.](#), Studies on chemical interferences on uranium (VI) and thorium (IV) reaction with (iso)polyoxometalates, *Revista de Chimie*, 60, 1264-1269, 2009.
51. Olariu, R.I., Humelnicu, D., Sandu, I., Humelnicu, I., [Arsene, C.*](#), Physico-chemical characterization of a new silica-polyoxometalate thermally modified unit, *Revista de Chimie*, 60, 1216-1219, 2009.
52. Vione, D., Rinaldi, E., Minero, C., Maurino, V., Olariu, R.I., [Arsene, C.*](#), Studies regarding groundwater quality at rural sites. 2. Photochemical generation of OH and NO₂ radicals upon UV-A irradiation of nitrate-rich groundwater, *Revista de Chimie*, 60, 551-554, 2009.
53. Vione, D., Ravizzoli, B., Rinaldi, E., Pettinato, F., [Arsene, C.](#), Olariu, R.I., Studies regarding groundwater quality at rural sites: 1. Estimation of the anthropic factor impact by complementary chemical analyses, *Revista de Chimie*, 60, 237-240, 2009.
54. Vione, D., Casanova, I., Minero, C., Duncianu, M., Olariu, R. I., [Arsene, C.*](#), Assessing the potentiality of Romanian surface waters to produce hydroxyl and nitrite radicals, *Revista de Chimie*, 60, 123-126, 2009.
55. Vione, D., Maurino, V., Cucu-Man, S., Khanra, S., [Arsene, C.](#), Olariu, R., Minero, C., Formation of organobrominated compounds in the presence of bromide under simulated atmospheric aerosol conditions, *Chemistry Sustainable Chemistry*, 1, 197–204, 2008. <https://doi.org/10.1002/cssc.200700031>

56. Drochioiu, G., [Arsene, C.](#), Murariu, M., Oniscu, C., Analysis of cyanogens with resorcinol and picrate, Food and Chemical Toxicology, 46, 3540-3545, 2008. <https://doi.org/10.1016/j.fct.2008.09.005>
57. Olariu, R.I., Humelnicu, D., [Arsene, C.](#), Sandu, I., Carja, G., Synthesis and chemical characterisation of new derivative complexes from UO_2^{2+} and Th^{4+} ions with (iso)polyoxomolybdate and (iso)polyoxotungstate clusters, Revista de Chimie, 59, 1052-1056, 2008.
58. Humelnicu, D., Olariu, R.I., Sandu, I., Apostolescu, N., Sandu, A.V., [Arsene, C.](#), New heteropolyoxotungstates and heteropolyoxomolybdates containing radioactive ions (uranyl and thorium) in their structure, Revista de Chimie, 59, 920-925, 2008.
59. [Arsene, C.](#), Olariu, R.I., Mihalopoulos, N., Chemical composition of rainwater in the north-eastern Romania, Iasi region (2003-2006), Atmospheric Environment, 41, 9452-9467, 2007. <https://doi.org/10.1016/j.atmosenv.2007.08.046>
60. [Arsene, C.](#), Bougiatioti, A., Kanakidou, M., Bonsang, B., Mihalopoulos, N., Tropospheric OH and Cl levels deduced from non-methane hydrocarbon measurements in a marine site, Atmospheric Chemistry and Physics, 7, 4661-4673, 2007. <https://doi.org/10.5194/acp-7-4661-2007>
61. [Arsene, C.](#), Bougiatioti, A., Mihalopoulos, N., Non-Methane Hydrocarbons (NMHCs) Variability in the Eastern Mediterranean. In: Mellouki, A., Ravishankara, A.R. (eds) Regional Climate Variability and its Impacts in The Mediterranean Area. NATO Science Series: IV: Earth and Environmental Sciences, vol 79. Springer, Dordrecht, 2007. https://doi.org/10.1007/978-1-4020-6429-6_14.
62. Vione, D., Maurino, V., Minero, C., Pelizzetti, E., Harrison, M.A.J., Olariu, R.I., [Arsene, C.](#), Photochemical reactions in the tropospheric aqueous phase and on particulate matter, Chemical Society Reviews, 35, 441-453, 2006. <https://doi.org/10.1039/B510796M>
63. Vione, D., Falletti, G., Maurino, V., Minero, C., Pelizzetti, E., Malandrino, M., Ajassa, R., Olariu, R.I., [Arsene, C.](#), Sources and sinks of hydroxyl radical upon irradiation of natural water samples, Environmental Science and Technology, 40, 3775-3781, 2006. <https://doi.org/10.1021/es052206b>
64. [Arsene, C.](#), Barnes, I., Becker, K.H., Benter, Th., Gas phase reaction of Cl with dimethyl sulphide. Temperature and oxygen partial pressure dependence of the rate constant, International Journal of Chemical Kinetics, 36, 66-73, 2005. <https://doi.org/10.1002/kin.20051>
65. [Arsene, C.](#), Mihalopoulos, N., Olariu, R.I., Duncianu, M. (2006). Atmospheric Wet Deposition Monitoring in Iasi, Romania. In: Barnes, I., Rudzinski, K.J. (eds) Environmental Simulation Chambers: Application to Atmospheric Chemical Processes. Nato Science Series: IV: Earth and Environmental Science, vol 62. Springer, Dordrecht. https://doi.org/10.1007/1-4020-4232-9_31
66. Harrison, M.A.J., Barra, S., Borghesi, D., Vione, D., [Arsene, C.](#), Olariu, R.I., Nitrated phenols in the atmosphere. A review, Atmospheric Environment, 39, 231-248, 2005. <https://doi.org/10.1016/j.atmosenv.2004.09.044>
67. [Arsene, C.](#), Olariu, R.I., Barnes, I., Dimethyl sulphide photo-oxidation at various NO_2 concentrations. 2. Investigation on particle formation, Revue Roumanie de Chimie, 50, 485-490, 2005. WOS:000233575500009
68. [Arsene, C.](#), Barnes, I., Olariu, R.I., Becker, K.H., Dimethyl sulphide photo-oxidation at various NO_2 concentrations. 1. Product study and mechanistic investigations, Revue Roumanie de Chimie, 50, 359-369, 2005. WOS:000233575400005
69. [Arsene, C.](#), Barnes, I., Becker, K.H., Schneider, W., Wallington, T., Mihalopoulos, N., Patroescu-Klotz, I., Formation of methane sulphinic acid in the gas phase OH-radical initiated oxidation of dimethyl sulphoxide, Environmental Science and Technology, 36, 5155-5163, 2002. <https://doi.org/10.1021/es020035u>
70. Onofrei, T., [Arsene, C.](#), Hurduc, N., A non-isothermal kinetic study upon the Pb(II) sorption on chemically-modified celluloses, Cellulose Chemistry and Technology, 36, 507-514, 2002.
71. [Arsene, C.](#), Barnes, I., Becker, K.H., Mocanu, R., FT-IR product study in the photo-oxidation of dimethyl sulphide in the presence of NO_x . Temperature dependence, Atmospheric Environment, 35, 3769-3780, 2001. [https://doi.org/10.1016/S1352-2310\(01\)00168-6](https://doi.org/10.1016/S1352-2310(01)00168-6)
72. Onofrei, T., Hurduc, N., [Arsene, C.](#), A non-isothermal kinetic study on the sorption of elements from group IIA on 4-(benzylcellulose)-5-azo-8-hydroxyquinoline, Cellulose Chemistry and Technology, 35, 235-241, 2001.
73. Onofrei, T., [Arsene, C.](#), Mita, C., Agache, C., Sorption of elements from group IIA on 4-(benzylcellulose)-5-azo-8-hydroxyquinoline, Cellulose Chemistry and Technology, 35, 15-23, 2001.
74. Onofrei, T., Hurduc, N., [Arsene, C.](#), Ionescu, D., Sorption of Cu(II), Co(II) and Ni(II) on 1-(4'-azobenzylcellulose)-2-naphtol. Thermogravimetric characterisation, Cellulose Chemistry and Technology, 34, 261-268, 2000.
75. [Arsene, C.](#), Barnes, I., Becker, K.H., FT-IR product study of the photo-oxidation of dimethyl sulphide. Temperature and O_2 partial pressure dependence, Physical Chemistry Chemical Physics, 1, 5463-5470, 1999. <https://doi.org/10.1039/A907211J>

1.2 Conference proceedings and other publications

1. Negru, A.G., Roman, C., Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Assessing the OH-initiated breakdown chemistry of camphene and 3-carene under NO_x-free simulated atmospheric conditions, Proceedings of 24th International Multidisciplinary Scientific GeoConference SGEM 2024, 2024, <https://doi.org/10.5593/sgem2024v/4.2/s18.24>
2. 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, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 23(4.2), pp. 291-298, 2023. <https://doi.org/10.5593/sgem2023v/4.2/s19.35>
3. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I., The evaluation of Na₂O₂ as a sintering agent in solid state dissolution of potential secondary sources for rare earth elements, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 21(4.2), 41-48, 2021. <https://doi.org/10.5593/sgem2021v/4.2/s18.08>
4. [Arsene C.*](#), Cucu Man, S.M., Olariu, R.I., The importance of the laboratory quality management system in the academic curriculum in developing appropriate student competences for our current societal needs, Proceedings 2020, 55, 7; doi:10.3390/proceedings2020055007. Article which belongs to the Proceedings of The Virtual Eurachem Workshop 2020 "Quality Assurance for Analytical Laboratories in the University Curriculum" <https://www.mdpi.com/2504-3900/55/1/7>
5. Amarandei, C., Olariu, R.I., [Arsene C.*](#), Implications of matrix effects in quantitative HPLC/ESI-ToF-MS analyses of atmospheric organic aerosol, Proceedings 2020, 55, 6; doi:10.3390/proceedings2020055006. Article which belongs to the Proceedings of The Virtual Eurachem Workshop 2020 "Quality Assurance for Analytical Laboratories in the University Curriculum" <https://www.mdpi.com/2504-3900/55/1/6>; DOI: 10.3390/proceedings2020055006
6. Amarandei, C., Galon-Negru, A.G., Olariu, R.I., [Arsene C.*](#), Investigation of organic molecular markers in the urban atmosphere by HPLC-ESI-ToF-MS. Method development, New Frontiers in Chemistry, 28, 90-93, 2019.
7. Roman, C., [Arsene C.](#), Olariu, R.I., Study on the formation of secondary organic aerosols from atmospheric photooxidation of 1,2 dihydroxy (alkyl) benzenes initiated by OH radicals in NO_x controlled conditions, New Frontiers in Chemistry, 28, 95-97, 2019.
8. [Arsene, C.*](#), Chemical composition of aerosols, a fragile barrier between healing and wounding, Journal of Nuclear Medicine and Radiation Therapy, 6:4, 2015.
9. Pindaru D.M., Tanase C., [Arsene C.](#), Olariu R.I., Micromorphological and chemical aspects of some lichenized fungi species, Journal of Plant Development, 19, 73-82, 2012.
10. Olariu, R.I., [Arsene, C.](#), Humelnicu, D., Vasilache, V., Solid-phase extraction and spectrophotometric determination of ultra trace thorium (IV) in water samples, International Journal of Criminal Investigation, 1, 25-30, 2011.
11. Cernat, R.I., Butnaru, L., Mihaescu, T., Olariu, R.I., [Arsene C.*](#), Ceruloplasmin and copper concentrations in patients with active pulmonary tuberculosis, Romanian Review of Laboratory Medicine, ISSN 1841-6624, 18,13-14, 2010.
12. Costica, N., Olariu, R.I., Mihai, C., Breaban, I.G., Rusu, A.I., [Arsene, C.](#), Ciomasu, I.M., Update environmental research infrastructure at „Alexandru Ioan Cuza” University of Iasi. The CERNESIM project, Analele Stiintifice ale Universitatii „Alexandru Ioan Cuza” Iasi, Biologie, LVI, Fasc. 2, 85-89, 2010.
13. Humelnicu, D., Olariu, R.I., [Arsene, C.](#), Bertescu, M., Burghel, B.D., A comparative study on the removal of uranyl ions from artificially enriched radioactive waters using clays from Romania, Analele Stiintifice ale Universitatii „Alexandru Ioan Cuza” Iasi, Geologie, LVI, 1, 85-93, 2010.
14. Humelnicu, D., Olariu, R.I., [Arsene, C.](#), Humelnicu, I., New isopolyoxomolybdates derived from heptamolybdate with UO₂²⁺ and Th⁴⁺ ions, Ovidius University Annals of Chemistry, 20, 227-231, 2009.
15. [Arsene, C.*](#), Mihalopoulos, N., Olariu, R.I., Atmospheric wet deposition monitoring in Iasi, Romania, in Environmental Simulation Chambers - Application to Atmospheric Chemical Processes, Barnes, I., Rudzinski, K. J., eds., NATO Science Series, IV. Earth and Environmental Sciences, 62, 369-377, 2006.
16. Olariu, R.I., Duncianu, M., [Arsene, C.](#), Wirtz, K., Determination of photolysis frequencies for small carbonyl compounds using the EUPHORE chamber facilities, in Environmental Simulation Chambers - Application to Atmospheric Chemical Processes, Barnes, I., Rudzinski, K. J., eds., NATO Science Series, IV. Earth and Environmental Sciences, 62, 121-128, 2006.
17. Duncianu, M., Olariu, R.I., [Arsene, C.](#), Mocanu, R., Wirtz, K., Reviejo, M.M., Spectro-radiometric determination of the photolysis frequency of NO₂ in Euphore chamber, ISSN 1221-5341, Analele Stiintifice ale Universitatii „Alexandru Ioan Cuza” Iasi, Chimie, 12, 17-24, 2004.
18. [Arsene, C.*](#), Barnes, I., Albu, M., Olariu, R.I., Becker, K.H., Wirtz, K., Mechanistic studies on the atmospheric oxidation of organic sulphur compounds, in The European Photoreactor EUPHORE, 4th REPORT 2001, Barnes, I.,

- Wirtz, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany and Fundacion Centro de Estudios del Mediterraneo, ISBN 84-921259, Valencia, Spain, pp. 152-165, 2004.
19. Bossoutrot, V., LeBras, G., [Arsene, C.](#), Albu, M., Barnes, I., OH-initiated oxidation of dimethyl sulphoxide, in The European Photoreactor EUPHORE 4th REPORT 2001, Barnes, I., Wirtz, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany and Fundacion Centro de Estudios del Mediterraneo, ISBN 84-921259, Valencia, Spain, pp. 171-174, 2004.
 20. Onofrei, T., [Arsene, C.](#), Agache, C., Sorption of Cu(II), Cd(II) and Zn(II) on 4-(benzylcellulose)-5-azo-8-hydroxyquinoline, ISSN 1221-5341, Analele Stiintifice ale Universitatii "Alexandru Ioan Cuza" Iasi, Chimie, 11, 69-74, 2003.
 21. [Arsene, C.*](#), Barnes, I., Olariu, I., Becker, K.H., Wirtz, K., Maldonado, C., OH-radical initiated oxidation of dimethyl sulphide and its impact on particle formation, in The European Photoreactor EUPHORE, 3rd REPORT 2000, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, pp. 82-98, 2001.
 22. Olariu, R.I., Barnes, I., [Arsene, C.](#), Becker, K.H., Wirtz, K., Studies on the atmospheric oxidation of phenol: II. Secondary organic aerosol formation, in The European Photoreactor EUPHORE, 3rd REPORT 2000, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, pp. 27-38, 2001.
 23. Olariu, R.I., Barnes, I., [Arsene, C.](#), Becker, K.H., Wirtz, K., Maldonado, C., Ponds, M., Studies on the atmospheric oxidation of phenol: I. Gas-phase product analysis, in The European Photoreactor EUPHORE, 3rd REPORT 2000, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, pp. 16-26, 2001.
 24. Onofrei, T., [Arsene, C.](#), Albu, M., Mita, C., Sorption of Pb(II) on chemically modified celluloses, Analele Stiintifice ale Universitatii "Alexandru Ioan Cuza" Iasi, Chimie, VIII, 275-280, 2000.
 25. [Arsene, C.*](#), Barnes, I., Becker, K.H., Studies on the atmospheric oxidation of dimethyl sulphide and dimethyl sulphoxide, in The European Photoreactor EUPHORE, 2nd REPORT 1998 - 1999, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, pp. 225-236, 2000.
 26. Barnes, I., Beyer, H., [Arsene, C.](#), Patroescu, I., Individual contributions, University of Wuppertal, in Dimethyl sulphide (DMS). Oxidation mechanism in relation to aerosols and climate, Contribution to Project ENV 4 - CT97 - 0410. 1998-1999, DOMAC, EUR 19569 EN, European Communities, pp. 28-42, 2000.
 27. Onofrei, T., [Arsene, C.](#), Mita, C., Sorption and separation of Cu(II), Co(II) and Ni(II) on 1,4'-azobenzylcellulose-2-naphthol, Southern Brazilian Journal of Chemistry, 5, 79-85, 1997.

1.3 Books / chapters

1.3.1 Books

1. [Cecilia Arsene](#), Romeo Iulian Olariu, Metode analitico-statistice in investigarea sistemelor chimice, ISBN: 978-973-730-606-7, PERFORMANTICA, Iasi, 2009.
2. [Cecilia Arsene](#), Romeo Iulian Olariu, Understanding atmospheric chemistry of hydrocarbons. An introductory approach, ISBN: 978-973-702-657-6, TEHNOPRESS, Iasi, 2009.
3. [Cecilia Arsene](#), Romeo Iulian Olariu, Sulful in atmosfera, ISBN: 973-8188-87-3, Editura Tehnica, Stiintifica si Didactica CERMI, Iasi, 2003.
4. Romeo Iulian Olariu, [Cecilia Arsene](#), Degradarea atmosferica a hidrocarburilor aromatice, ISBN 973-8490-25-1, Ed. PIM, Iasi, 2002.
5. [Cecilia Arsene](#), Thorsten Benter, Atmospheric degradation mechanism of organic sulphur compounds (Doctoral Thesis), ISSN 1436-2198, Bericht Nr. 57, 2002.

1.4 Conferences / workshops

1.4.1 Invited conferences

1. [Arsene, C.*](#), RECENT AIR Center as a big research and development infrastructure. Its role and added value in society, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready for Europe Conference - RARE 2024, 1st Edition, Iasi, Romania, 12-13 December, 2024.
2. [Arsene, C.*](#), Talking about scientific dissemination from a long-term perspective, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD), XVth Edition, Iasi, Romania, 27 June 2024.
3. [Arsene, C.*](#), MasterClass de Scriere și Publicare Academică, Universitatea Alexandru Ioan Cuza din Iași, 29 April.2024.
4. [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>
5. [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 Iași, 23 Martie 2020. <https://www.uaic.ro/cursuri-deschise/>
 6. [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.
 7. 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.
 8. [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.
 9. [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.
 10. [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.
 11. [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.
 12. [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, RICCCE 2017, 06-09 September 2017, Poiana Brasov, Romania, S3-209, 2017.
 13. [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.
 14. [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.
 15. [Arsene, C.](#) (Seminar), METHodologies in Environmentally focused socioeconomic Research (METER), SCIENVIR 2017 International Conference Programme, 15-18 June, 2017.
 16. [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.
 17. [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.
 18. [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.
 19. [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.
 20. [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.
 21. [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.
 22. [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.
 23. [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.
 24. [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.

25. [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 Abstracts and conference proceedings

1.4.2.1 Abstracts and conference proceedings for international actions

1. Negru, A.G., Roman, C., Amarandei, C., [Arsene, C.](#), Olariu, R.I., Assessing the OH-initiated breakdown chemistry of camphene and 3-carene under NO_x-free simulated atmospheric conditions, SGEM International Scientific Conferences on Earth & Planetary Sciences, Extended Scientific Sessions „Green Sciences For Green Life“, Vienna, Austria, oral presentation, 27 – 30 November 2024. <https://www.sgemviennagreen.org/index.php/sgemviennagreen-deadlines/dates-deadlines>
2. Roman C., [Arsene C.](#), Olariu R.I., Bejan I.G., Atmospheric chemistry of furans initiated by OH radicals, the 27th Gas Kinetics Symposium (ICGK2024), Leeds (UK), 15-18 July, 2024.
3. 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, 28 November – 01 December 2023, Vienna, Austria.
4. 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 ketolimonene: 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>
5. 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/>
6. Soroaga, L.V., Amarandei, C., Negru, A.G., [Arsene, C.](#), Olariu, R.I., The rare earth elements distribution in lake sediments as an indicator of surface water redox potential and micropollution, 18th International Conference on Chemistry and the Environment, 11-15 June, 2023, Venice, Italy. <https://icce2023.com/>
7. Minella, M., [Arsene, C.](#), Bejan, I., Roman, C., Olariu, R.I., Passananti, M., Carena, L., Vione, D., Use of a simple two-media degradation model to evaluate the environmental fate of a semivolatile transformation product of ibuprofen, 18th International Conference on Chemistry and the Environment (ICCE 2023), 11-15 June, 2023, Venice, Italy. <https://icce2023.com/>
8. Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Variability of pinene oxidation products in the atmospheric aerosols from the northeastern Romania. Influence of the meteorological parameters, XXIIth SGEM GeoConference - "Green Sciences for Green Life", 7th – 10th of December, 2021.
9. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I., The evaluation of Na₂O₂ as a sintering agent in solid state dissolution of potential secondary sources for rare earth elements, XXIIth SGEM GeoConference - "Green Sciences for Green Life", 7th – 10th of December, 2021.
10. 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 ICAST 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>
11. Amarandei, C., Galon (Negru), A.G., Mutzel, A., Hartmut, H., Olariu, R.I., [Arsene, C.*](#), Evidences on the a/b-pinene oxidation products contribution to the urban particulate matter in Iasi, north-eastern Romania, European Aerosol Conference, 25-30 August 2019, Gothenburg, Sweden, oral communication, Sorce Apportionment Section, Program, pp. 113, P3-026, 2019.
12. Olariu, R.I., [Arsene, C.](#), Bejan, I.G., Roman, C., Rusu, A.M., Galon (Negru), A.G., Secondary organic aerosols formation from the gas phase oh radical reaction with catechol under NO_x conditions, European Aerosol Conference, 25-30 August 2019, Gothenburg, Sweden, pp. 117, P3-131, 2019.
13. 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.
14. 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.
15. 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.

16. 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.
17. 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.
18. 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>).
19. 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>).
20. 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, ATMOCHEMBIO, Book of abstracts, Clermont-Ferrand, France, 19-21 June 2017, pp.37, 2017.
21. Bejan, I., Olariu, R. I., [Arsene, C.](#), Wenger, J.C., Barnes, Wiesen, I. P., Investigations on the gas-phase chlorine-atom initiated oxidation of 1,4-benzoquinones and 1,2-dihydroxybenzenes, ATMOCHEMBIO, Book of abstracts, Clermont-Ferrand, France, 19-21 June 2017, pp.42, 2017.
22. [Arsene, C.*](#), Coman (Babusanu), A.C., Negru (Galon), G., Mardare (Balusescu), G., Babusanu (Coman), A., Olariu, R.I., About ultrasound assisted extraction and its suitability for studying physico-chemical processes in various complex matrices, Sample Treatment 2016, Proceedings Book, ISBN 978-989-99639-2-4, Lisbon, Portugal, 05-07 December, pp. 79-80, 2016.
23. Olariu, R.I., [Arsene, C.](#), Soroaga, L.V., Pintilei, M., Nica, V., Borcia, C., Chemical properties of available materials for the recovery of rare earth elements, 3rd International Conference on Computational and Experimental Science and Engineering (ICCESN-2016, Antalya, Turkey, 19-24 October), pp. 287, 2016.
24. Bejan, I., Duncianu, M., [Arsene, C.](#), Olariu, R.I., Kinetic study of the gas-phase reactions of chlorine atoms with 2-chlorophenol, 2-nitrophenol and ortho-, meta- and para-cresol, 24th International Symposium on Gas Kinetics and Related Phenomena, York, UK, 17th-21st July, P021, 2016.
25. Bejan, I., Marin, S.L., Duncianu, M., [Arsene, C.](#), Olariu, R.I., Validation of a newly designed simulation chamber (ESCQ-UAIC) using gas phase investigations on aromatic compounds, 24th International Symposium on Gas Kinetics and Related Phenomena, York, UK, 17th-21st July, P023, 2016.
26. [Arsene, C.*](#), Chemical composition of aerosols, a fragile barrier between healing and wounding, keynote within the International Conference on Medical Physics, August 03-05, 2015, Birmingham, UK, in Journal of Nuclear Medicine and Radiation Therapy, 6:4, 2015. <http://dx.doi.org/10.4172/2155-9619.S1.001>.
27. [Arsene, C.*](#), European Comission, Romania, Research and Innovation, https://ec.europa.eu/research/fp7/pdf/country-profiles/romania/country_profile_and_featured_projects.pdf; 2015.
28. [Arsene, C.*](#), Measuring aerosol damage to the atmosphere, Success stories, Measuring aerosol damage to the atmosphere, 28 October, 2013.
29. [Arsene, C.*](#), Chemical characterization of atmospheric aerosols from local to long-range transboundary pollution. ICAARUS project at the final phase and beyond, in Science, Passion, Mission, Responsibilities, Marie Curie Researchers Symposium, Warsaw, Poland, 25-27 September, pp. 15, 2011.
30. Duncianu, M., Riffault, V., Olariu, R., [Arsene, C.](#), Tomas, A., Codeville, P., Coefficients de vitesse et produits en phase gazeuse obtenus dans les reactions d'ozonolyse d'une serie de pentenes, Premier Colloque Francophone sur les Pollutants Organique Generes par l'Agriculture et les Transports, Agadir, Morocco 24-27 Octobre, 2011.
31. Bercea, R.M., Cernat, R.I., Mihaescu, T., Mocanu, R.D., Olariu, R.I., [Arsene, C.*](#), Serum Cu, Fe and Zn concentrations and their relation to the inflammation associated with active pulmonary tuberculosis. European Respiratory Journal Supplement, 3045s, 36(54), 2010.
32. Pindaru, D., Tanase, C., Olariu, R.I., [Arsene, C.*](#), Atmospheric deposition of organic and inorganic nitrogen in the north-eastern Romania, in 2010 International Aerosol Conference, P2K19, 29 August-03 September, Helsinki, Finland, pp. 80, 2010.

33. Olariu, R.I., Bejan, I., Barnes, I., Becker, K.H., [Arsene, C.*](#), Evaluation of phenols-SOA formation mechanism with respect to chamber type, pp. 159, in 2010 International Aerosol Conference, 29 August-03 September, Helsinki, Finland, P3W4, 2010.
34. Cernat, R., Cioroiu, M., Dragan, D., Raducanescu, C., Olariu, R., [Arsene, C.](#), Mocanu, R., Distribution et comportement des oligo-elements et des polluants organochlorides dans le serum de personnes ayant des affections pulmonares, chroniques ou actives, in Colloque Franco-Roumain de chimie Appliquee, COFeRoCA-2010, ISSN 2068-6382, Orleans, France, 07-10 July, pp. 71, 2010.
35. Bertescu, M., Humelnicu, D., Mantu, D., Burgehele, B.D., [Arsene, C.](#), Olariu, R.I., Solid phase extraction-spectrophotometric determination of thorium (IV) in water samples, 2nd Terrestrial Radioisotopes in Environment International Conference on Environment Protection, Veszprem, Hungary, May 2010.
36. [Arsene, C.*](#), Olariu, R.I., Ponzo, M., Vione, D., Fast reversed-phase ion-pair liquid chromatography in the simultaneous analysis of nitrite and nitrate in rainwater samples collected in the north-eastern Romania over 2003-2008, in 9th Csaba Horváth Medal Award Symposium, Hartford, Connecticut, USA, 28-29 April, pp. 28, 2009.
37. Olariu, R.I., [Arsene, C.](#), Humelnicu, D., Duncianu, M., Newly synthesized stationary phase used on method development for α - and β -emitters measurements in environmental samples, in 9th Csaba Horváth Medal Award Symposium, Hartford, Connecticut, USA, 28-29 April, pp. 27, 2009.
38. [Arsene, C.*](#), Olariu, R.I., Kanakidou, M., Mihalopoulos, N., Atmospheric aerosol characterisation at Iasi, northeastern Romania. First results, European Aerosol Conference (EAC 2008), Thessaloniki, Greece, 24-29 August, T06A206P, 2008.
39. [Arsene, C.*](#), Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, Protection and Restoration of the Environment IX (Pre-IX), Kefalonia, Greece, 29 June - 03 July, 2008. AWARD for the BEST POSTER.
40. [Arsene, C.*](#), Bougiatioti, A., Mihalopoulos, N., Indirect evidence of chlorine atom concentration in the lower troposphere of the Eastern Mediterranean, European Geosciences Union, SRef-ID: 1607-7962/gra/EGU2007-A-00538, Geophysical Research Abstracts, Vol. 9, 00538, 2007.
41. [Arsene, C.*](#), Bougiatioti, A., Kalivitis, N., Chourdakis, G., Zampas, P., Mihalopoulos, N., Non-methane hydrocarbons measurements in the eastern Mediterranean during summer: implications for OH radical and Cl atom levels, ACCENT 2nd Symposium, Atmospheric Composition Change, Causes and Consequences, Local to Global, Urbino, Italy, 2007.
42. [Arsene, C.*](#), Non methane hydrocarbons (NMHCs) variability in the Eastern Mediterranean, Regional Climate Variability and its Impacts in the Mediterranean Areas, Marrakech, Morocco, 23-27 November, 2006.
43. [Arsene, C.*](#), Liakakou, E., Bougiatioti, A., Mihalopoulos, N., Sources of non-methane hydrocarbons (NMHCs) in the eastern Mediterranean, in Atmospheric Chemistry at the Interfaces, Cape Town, South Africa, 17-22 September, pp. 534, 2006.
44. [Arsene, C.*](#), Olariu, R.I., Violaki, K., Mihalopoulos, N., Dissolved organic nitrogen deposition on land in the northeastern part of Romania, in Atmospheric Chemistry at the Interfaces, Cape Town, South Africa, 17-22 September, pp. 499, 2006.
45. [Arsene, C.*](#), Olariu, R.I., Violaki, K., Mihalopoulos, N., Dissolved organic nitrogen deposition on land in the northeastern part of Romania, in Workshop on agricultural air quality. State of the science, Aneja, V.P., Schlesinger, W.H., Knighton, R., Jennings, G., Niyogi, D., Gillian, W., Duke, C.S., eds., Potomac, Maryland USA, 05-08 June, pp. 464-467, 2006.
46. [Arsene, C.](#), Olariu, R.I., Barnes, I., Wirtz, K., A study of new particle formation in the OH-initiated oxidation of dimethyl sulphide, European Geosciences Union Geophysical Research Abstracts, Vol. 6, SRef-ID: 1607-7962/gra/EGU04-A-06878, 2004.
47. Duncianu, M., Olariu, R.I., [Arsene, C.](#), Wirtz, K., Revejo, M.M., Euphore chamber measurement of atmospheric photolysis frequencies for NO₂, O₃ and other molecules, European Geosciences Union, SRef-ID: 1607-7962/gra/EGU04-A-06932, Geophysical Research Abstracts, Vol. 6, 06932, 2004.
48. Olariu, R.I., Tomas, A., Barnes, I., Bejan, I., [Arsene, C.](#), Wirtz, K., Organic aerosol formation during the atmospheric ozone degradation of 1,2-dihydroxybenzenes, European Geosciences Union, SRef-ID: 1607-7962/gra/EGU04-A-07103, Geophysical Research Abstracts, Vol. 6, 07103, 2004.
49. [Arsene, C.*](#), Mihalopoulos, N., Olariu, R.I., Atmospheric Wet deposition monitoring in Iasi, Romania, NATO: EST.ARW 980164, Environmental Simulation Chambers: Application to Atmospheric Chemical Processes, Zakopane, Poland, 01-04 October, pp. 18, 2004.
50. Olariu, R.I., Duncianu, M., [Arsene, C.](#), Wirtz, K., Determination of photolysis frequencies for small carbonyl compounds using the EUPHORE chamber facilities, in NATO: EST.ARW 980164, Environmental Simulation Chambers: Application to Atmospheric Chemical Processes, Zakopane, Poland, 01-04 October, pp. 19, 2004.

51. Albu, M., Barnes, I., Patroescu-Klotz, I., [Arsene, C.](#), Mocanu, R., Simulation chamber experiments on the OH-initiated oxidation of dimethyl sulphide at low temperatures, European Geophysical Society, Geophysical Research Abstracts, Vol. 5, 11050, 2003.
52. Olariu, R.I., Barnes, I., Bejan, I., [Arsene, C.](#), Becker, K.H., Wirtz, K., Secondary organic aerosol formation from the atmospheric oxidation of phenols, European Geophysical Society, Geophysical Research Abstracts, Vol. 5, 11692, 2003.
53. Albu, M., [Arsene, C.](#), Barnes, I., FT-IR product investigations of the OH-initiated oxidation of dimethyl sulphide at sub-zero temperatures, in EC/EUROTRAC-2 Joint Workshop, Shaping the Future of Atmospheric Chemistry Research in Europe, Paris, France, pp.11, 2002.
54. Albu, M., [Arsene, C.](#), Barnes, I., Investigations of the OH-initiated oxidation of dimethyl sulphide at sub-zero temperatures, in 7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Heraklion, Crete, Greece, pp. 144-145, 2002.
55. [Arsene, C.](#), Barnes, I., Albu, M., Product study of the Cl Atom initiated photo-oxidation of dimethyl sulphide, in 7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Heraklion, Crete, Greece, pp.145-146, 2002.
56. [Arsene, C.](#), Barnes, I., Albu, M., Chlorine atom reaction kinetics with organic sulphur compounds as a function of temperature and O₂ partial pressure, in 17th International Symposium on Gas Kinetics, AP03, Essen, Germany, 2002.
57. Barnes, I., [Arsene, C.](#), Yields of aerosol precursors in the oxidation of DMS as a function of atmospheric conditions (temperature and NO_x), Poster zum Status Seminare AFS, Contribution to Projekt No.: 07 AF 225. 1998-2001, Koln Germany, 2001.
58. [Arsene, C.](#), Barnes, I., Becker, K.H., Studies on the Photo-oxidation of dimethyl sulphide and dimethyl sulphoxide under atmospheric conditions, in Proceedings of the A Changing Atmosphere, 8th European Symposium on the Physico-Chemical Behaviour of Atmospheric Pollutants, Hjorth, J., Jensen, N., eds., Torino, Italy, 17-20 September, 2001.
59. [Arsene, C.](#), Barnes, I., Albu, M., Becker, K.H., Investigations of the particle formation from the photooxidation of DMS, Global Atmospheric Change and its Impact on Regional Air Quality, Advanced Research Workshop, NATO Science Programme, Irkutsk, Russian Federation, 22-27 August, 2001.
60. Barnes, I., Beyer, H., [Arsene, C.](#), Patroescu, I., Individual contributions, University of Wuppertal, in Dimethyl sulphide (DMS). Oxidation mechanism in relation to aerosols and climate, Contribution to Project ENV 4 - CT97 - 0410. 1998-1999, DOMAC, EUR 19569 EN, European Communities, pp. 28-42, 2000.
61. [Arsene, C.](#), Barnes, I., Becker, K.H., Mocanu, R., Product studies on the photo-oxidation of dimethyl sulphoxide (DMSO:CH₃S(O)CH₃), in EC Cluster, Chemical Processes and Mechanisms and EUROTRAC-2, Chemical Mechanism Development, Rossi, M.J., Rossi, E.M., eds., pp. 17-20, 2000.
62. Onofrei, T., [Arsene, C.](#), Albu, M., Sorption of Pb(II) on chemically modified celluloses, in Euroanalysis XI, European Conference on Analytical Chemistry, Book of Abstracts, Lisbon, Portugal, P-109, 2000.
63. [Arsene, C.](#), Barnes, I., Becker, K.H., New product studies on the photo-oxidation of dimethyl sulphide, in EC Cluster, Chemical Processes and Mechanisms and EUROTRAC-2, Chemical Mechanism Development, Vogt, R., Axelsdottir, G., eds., ISBN 3-00-005414-6, pp. 117-121, 1999.
64. Barnes, I., Becker, K.H., [Arsene, C.](#), New product studies on the photo-oxidation of dimethyl sulphide, in Sixth Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Book of Abstracts, Bologna, Italy, 13-17 September, pp.140, 1999.
65. [Arsene, C.](#), Barnes, I., Produkt- und aerosolbildung bei der DMS-oxidation, in Proceeding of Atmosphärische Umweltforschung im Wandel, Berlin, Germany, 1999.
66. [Arsene, C.](#), Barnes, I., Becker, K.H., New product and aerosol studies on the oxidation of dimethyl sulfide, in Proceedings of the US-German Environmental Chamber Workshop, Riverside, <http://cert.ucr.edu/carter/epacham/meeting1.htm>, Riverside, California, 1999.
67. Barnes, I., [Arsene, C.](#), Patroescu, I., Aerosol und Produktbildung bei der dimethylsulfid-oxidation, Poster zum Status Seminare AFS, Munchen, Germany, 24-25 June, 1999.
68. Barnes, I., Bayer, H., [Arsene, C.](#), Neue produktstudien der atmosphärischen dimethylsulfide-bzw. dimethylsulfoxid oxidation, in Physikalische Chemie der Atmosphäre, Crutzen, P.J., Zellner, R., ISSN 0936-9376, Dortmund, Germany, 13-15 May, pp. B53, 1999.
69. Onofrei, T., [Arsene, C.](#), Sorption of Cu(II), Cd(II) and Zn(II) on 4(benzylcellulose)-5-azo-8-hydroxyquinoline, in Chimia, Euroanalysis 10, Abstract Book, Vol. 52, 299-427, ISSN 0009-4293, 7-8/98, Verlag Helvetica Chimica Acta, Swiss, 06 September, p. 345, 1998.

1.4.2 Abstracts and conference proceedings for actions organised at national level

1. Berari, R.I., Negru A.G., Soroaga, L.V., Lesenciuc, C.D., Olariu, R.I., [Arsene, C.](#) Physico-chemical characterisation of precipitation events in the Rarau Massif, north-eastern Romania, IasiCHEM 2025 Conference, 7th Edition, Iasi, Romania, Book of Abstracts, 30 – 31 October, 2025. <https://www.chem.uaic.ro/files/File/iasichem/2025/Program-IASiChem2025.pdf>
2. Iriciuc, D., [Arsene, C.](#), Modern analytical approaches in prospecting ecological solutions for pharmaceutical waste management, IasiCHEM 2025 Conference, 7th Edition, Iasi, Romania, Book of Abstracts, 30 – 31 October, 2025. <https://www.chem.uaic.ro/files/File/iasichem/2025/Program-IASiChem2025.pdf>
3. Cretu, P., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Gas-phase kinetics of the OH radical initiated oxidation of 2-ethylnitrobenzene, 7th Edition, Iasi, Romania, Book of Abstracts, 30 – 31 October, 2025. <https://www.chem.uaic.ro/files/File/iasichem/2025/Program-IASiChem2025.pdf>
4. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I.; Total metal content evaluation by ICP-MS in size-resolved inhalable particulate matter from the atmosphere, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD), XVIth Edition, 19 June 2025, Iasi, Romania. file:///C:/Users/Utilizator/Desktop/2025_program_scssmd_2025-1.pdf
5. Iancu, C., Soroaga, L.V., Negru, G.A., Olariu, R.I., [Arsene, C.](#), Elemental composition of bacteria, fungi, and yeasts isolates from airborne bioaerosol particles, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD), XVIth Edition, 19 June 2025, Iasi, Romania. file:///C:/Users/Utilizator/Desktop/2025_program_scssmd_2025-1.pdf
6. Cretu, P., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Gas-phase kinetics of the OH radical initiated oxidation of 2-ethylnitrobenzene, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD), XVIth Edition, 19 June 2025, Iasi, Romania. file:///C:/Users/Utilizator/Desktop/2025_program_scssmd_2025-1.pdf
7. Crisan, A., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Gas-phase kinetic study of thymol with OH radicals under simulated atmospheric conditions, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD), XVIth Edition, 19 June 2025, Iasi, Romania. file:///C:/Users/Utilizator/Desktop/2025_program_scssmd_2025-1.pdf
8. Negru, A.G., Roman, C., Soroaga, L.V., Nita, C., Olariu, R.I., [Arsene, C.](#), Advanced analytical techniques suitable for field measurements of air pollutants and for fundamental studies on their atmospheric degradation, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready for Europe Conference - RARE 2024, 1st Edition, Iasi, Romania, Book of Abstracts, oral presentation, pp. 11-12, 12-13 December, 2024. https://recent-air.uaic.ro/Ready_for_Europe_Conference_2024.php
9. Roman, C., Negru, A.G., Nita, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Towards better organic solvents: A case study of p-cymene and its impact on the atmosphere, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready for Europe Conference - RARE 2024, 1st Edition, Iasi, Romania, Book of Abstracts, oral presentation, pp. 15-16, 12-13 December, 2024. https://recent-air.uaic.ro/Ready_for_Europe_Conference_2024.php
10. Iancu, C., Amarandei, C., Negru, A.G., Soroaga, L.V., Olariu, R.I., [Arsene, C.](#), Research tools for the investigation of bacterial and fungal communities in airborne bioaerosol particles, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready for Europe Conference - RARE 2024, 1st Edition, Iasi, Romania, Book of Abstracts, oral presentation, pp. 17-18, 12-13 December, 2024. https://recent-air.uaic.ro/Ready_for_Europe_Conference_2024.php
11. Soroaga, L.V., Nita, C., Negru, A.G., Roman, C., [Arsene, C.](#), Olariu, R.I., ICP-MS analysis of rare earths and trace elements from the atmospheric particulate matter and other various matrices, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready for Europe Conference - RARE 2024, 1st Edition, Iasi, Romania, Book of Abstracts, oral presentation, pp. 19-20, 12-13 December, 2024. https://recent-air.uaic.ro/Ready_for_Europe_Conference_2024.php
12. Nita, C., Iancu, C., Negru, A.G., Soroaga, L.V., Olariu, R.I., [Arsene, C.](#), Real-time analysis of gases at trace levels with selected ion flow tube mass spectrometry (SIFT-MS) technology, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready for Europe Conference - RARE 2024, 1st Edition, Iasi, Romania, Book of Abstracts, oral presentation, pp. 47-48, 12-13 December, 2024. https://recent-air.uaic.ro/Ready_for_Europe_Conference_2024.php
13. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I.; Total metal content evaluation by ICP-MS in size-resolved inhalable particulate matter from the atmosphere, IasiCHEM 2024 Conference, 6th Edition, Iasi, Romania, Book of Abstracts, oral presentation, pp. 11, 31 October - 01 November, 2024. <https://www.chem.uaic.ro/ro/manifestari/zu-2024.html>
14. Roman, C., Negru, A.G., Nita, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I.; Study of the atmospheric degradation of selected organic solvents, IasiCHEM 2024 Conference, 6th Edition, Iasi, Romania, Book of Abstracts, oral

- presentation, pp. 12, 31 October - 01 November, 2024. <https://www.chem.uaic.ro/ro/manifestari/zu-2024.html>
15. Negru, A.G., Nita, C., Roman, C., Soroaga, L.V., Olariu, R.I., [Arsene, C.](#), Measurements of traffic-dominated pollutant emissions in the urban area of Iasi using the PRO TRACE 02 mobile laboratory, IasiCHEM 2024 Conference, 6th Edition, Iasi, Romania, Book of Abstracts, poster, pp. 29, 31 October - 01 November, 2024. <https://www.chem.uaic.ro/ro/manifestari/zu-2024.html>
 16. Iancu, C., Nita, C., Negru, A.G., Olariu, R.I., [Arsene, C.](#), Selected ion flow tube mass spectrometry investigation of volatile compounds emitted by microorganisms of atmospheric origin, IasiCHEM 2024 Conference, 6th Edition, Iasi, Romania, Book of Abstracts, poster, pp. 45, 31 October - 01 November, 2024. <https://www.chem.uaic.ro/ro/manifestari/zu-2024.html>
 17. Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Multi-referential relative kinetic methods versus pseudo-first method for assessing of the gas-phase ozonolysis of unsaturated volatiles in environmental sciences, National Conference of Chemistry, XXXVII Edition, Targoviste, Romania, oral presentation, pp. 27, 25-27th September, 2024. <https://chimcomplex.com/cnchim-2022/>
 18. Soroaga, L.V., Negru, A.G., [Arsene, C.](#), Olariu, R.I., The rare earth elements distribution in atmospheric particles as tracers for source apportionment, National Conference of Chemistry, XXXVII Edition, Targoviste, Romania, Book of Abstracts, oral presentation, pp. 11, 25-27 September, 2024. https://icstm.ro/cnchim-2024/Schedule_CNCHIM_2024.pdf
 19. Amarandei, C., Negru, A.G., Iancu, C., Olariu, R.I., [Arsene, C.](#), Analysis of size-segregated particle-bound polycyclic aromatic hydrocarbons in Iasi urban area, National Conference of Chemistry, XXXVII Edition, Targoviste, Romania, Book of Abstracts, poster, 25-27 September, 2024. https://icstm.ro/cnchim-2024/Schedule_CNCHIM_2024.pdf
 20. Negru, A.G., Roman, C., Amarandei, C., [Arsene, C.](#), Olariu, R.I., Insights into the characterization of the aerosol-phase of limonene photooxidation products under NO_x and NO_x-free simulated conditions, National Conference of Chemistry, XXXVII Edition, Targoviste, Romania, Book of Abstracts, poster, 25-27 September, 2024. https://icstm.ro/cnchim-2024/Schedule_CNCHIM_2024.pdf
 21. Mocanu, R.G., Movila, L.G., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Gas-phase kinetic study of the reaction of 2- and 3-hydroxybenzaldehydes with OH radicals and chlorine atoms, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD), XVth Edition, pp. 16-17, 27 June 2024, Iasi, Romania. [https://www.chem.uaic.ro/files/File/2023-2024/scssmd-27-iunie-2024/2024-program-scssmd-27-iunie\(2\).pdf](https://www.chem.uaic.ro/files/File/2023-2024/scssmd-27-iunie-2024/2024-program-scssmd-27-iunie(2).pdf)
 22. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I., The influence of collision gas flow and aerosol dilution on the LoQ of an ICP-MS method tailored for atmospheric particles analysis, CHIMIA 2024 - New trends in applied chemistry, Constanta, Romania, Book of Abstracts, Poster, 30 Mai - 01 Iunie, 2024. <https://fsai.univ-ovidius.ro/chimia2024/program.html>
 23. Negru, A.G., Soroaga, L.V., Olariu, R.I., [Arsene, C.](#), A cost-effective ICP-MS method for total metals content analysis in size-resolved atmospheric particles. Potential health implications, CHIMIA 2024 - New trends in applied chemistry, Constanta, Romania, Book of Abstracts, oral presentation, May 30- 01 June, 2024. <https://fsai.univ-ovidius.ro/chimia2024/index.html>
 24. Roman, C., Humelnicu, I., Mangalagiu, I., [Arsene, C.](#), Olariu, R.I., Bejan, I., Atmospheric chemistry of aromatic compounds: from gas-phase kinetic to secondary organic aerosol formation, The 17th International Conference of Physical Chemistry ROMPHYSICHEM, pp. 31, ISSN 3008-3850; ISSN-L 2286-1327, Bucharest, Romania, 25-27 September, 2023. <https://gw-chimie.math.unibuc.ro/romphyschem/>
 25. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I., The importance of tailored calibration for quadrupole ICP-MS measurements, IasiCHEM 2023 Conference, Iasi, Romania, 26-27 October, 2023. <https://www.chem.uaic.ro/ro/manifestari/zu-2023.html>
 26. Roman, C., Amarandei, C., Negru, A.G., [Arsene, C.](#), Bejan, I.G., Tomas, A., Olariu, R.I., The atmospheric fate of a gaseous transformation product of limonene, IasiCHEM 2023 Conference, Iasi, Romania, 26-27 October, 2023. <https://www.chem.uaic.ro/ro/manifestari/zu-2023.html>
 27. Iancu, C., Amarandei, C., Costica, N., Bejan, I.G., Olariu, R.I., [Arsene, C.*](#), Microscopic and molecular approaches into atmospheric bioaerosols from the Iasi urban area, IasiCHEM 2023 Conference, Iasi, Romania, 26-27 October, 2023. <https://www.chem.uaic.ro/ro/manifestari/zu-2023.html>
 28. Movila, L.G., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., FT-IR kinetic studies of the gas-phase reaction of the OH radical with a series of nitrotoluene compounds, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD), XIVth Edition, pp. 10-11, Iasi, Romania, 23 June, 2023. <https://www.chem.uaic.ro/ro/manifestari/scssmd2023.html>
 29. Mocanu, R.G., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Gas-phase kinetic study of 3-hydroxybenzaldehyde with OH radicals under simulated atmospheric conditions, Scientific Communication

- Session for Undergraduate, Master and PhD Students (SCSSMD), XIVth Edition, pp. 20-21, Iasi, Romania, 23 June, 2023. <https://www.chem.uaic.ro/ro/manifestari/scssmd2023.html>
30. Mocanu, R.G., Movila, L.G., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Kinetic studies on the gas-phase reaction of OH radical with p-tolualdehyde, International Conference Students for Students, XIXth Edition, pp. 43, Cluj, Romania, 26-30 April, 2023. <https://www.chem.ubbcluj.ro/studenti/ICSFS2023/>
 31. Movila, L.G., Mocanu, R.G., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Gas-phase kinetic studies on the OH radical initiated oxidation of 2- and 4- nitrotoluene, International Conference Students for Students, XIXth Edition, pp. 51, Cluj, Romania, 26-30 April, 2023. <https://www.chem.ubbcluj.ro/studenti/ICSFS2023/>
 32. Plaesu, I., Roman, C., Negru, A.G., Olariu, R.I., [Arsene, C.*](#), Metode de prelevare și analiză a compușilor chimici din produsele biocide, Simpozionul național studentesc "Mihai David", Ediția a XIII, Iasi, Iasi, Romania, Noiembrie, 2023. <https://enviromatica.ro/wp-content/uploads/2024/10/Program-SMD-2023-3.pdf>
 33. Amarandei, C., Olariu, R. I., [Arsene, C.](#), Measurements of 4-nitrophenol and 4-nitrocatechol in urban aerosols from north-eastern Romania, CNChim2022 XXXVI ed., pp. 23, Călimănești-Căciulata, Romania, 04-07 October, 2022.
 34. Negru, A. G., Apostol, V., Iancu, C., Amarandei, C., Bejan, I. G., Olariu, R. I., [Arsene, C.](#), Investigations on optical properties of atmospheric aerosols from Iasi, north-eastern Romania, CNChim2022 XXXVI ed., pp. 24, Călimănești-Căciulata, Romania, 04-07 October 2022.
 35. Soroaga, L. V., [Arsene, C.](#), Olariu, R. I., Method assessment for the quantification by ICP-MC of rare and refractory elements from silicate-rich samples, CNChim2022 XXXVI ed., pp. 29, Călimănești-Căciulata, Romania, 04-07 October, 2022.
 36. Roman, C., [Arsene, C.](#), Bejan, I. G., Vione, D., Olariu, R. I., Atmospheric break-down of 4-isobutylacetophenone, a toxic transformation product of ibuprofen, CNChim2022 XXXVI ed., pp. 86, Călimănești-Căciulata, Romania, 04-07 October, 2022.
 37. Rusu (Vasilache), A. M., Roman, C., Bejan, I. G., [Arsene, C.](#), Olariu, R. I., Ozonolysis of selected methyl-butenols under atmospheric relevant simulated conditions, CNChim2022 XXXVI ed., pp. 204, Călimănești-Căciulata, Romania, 04-07 October, 2022.
 38. Măirean, C. P., Roman, C., Bejan, I. G., [Arsene, C.](#), Olariu, R. I., Gas-phase kinetic study of the OH radicals with some selected cis- 3-hexenyl esters under simulated atmospheric conditions, CNChim2022 XXXVI ed., pp. 214, Călimănești-Căciulata, Romania, 04-07 October, 2022.
 39. Rusu (Vasilache), A. M., Roman, C., [Arsene, C.](#), Bejan, I. G., Olariu, R. I., OH-tracer versus OH-scavenger use in the gas-phase kinetic study of the methyl-butenols ozone-initiated reactions, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD) XIII ed., pp. 14-15, Iași, Romania, 28 October, 2022.
 40. Iancu, C., Mihalache, G., Amarandei, C., Negru, A.G., Gradinaru, R., Costica, N., Bejan, I.G., Olariu, R.I., [Arsene, C.](#), First insights into atmospheric bioaerosols from the Iasi urban area, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD) XIII ed., pp. 24-25, Iași, Romania, 28 October 2022.
 41. Măirean, C. P., Roman, C., Bejan, I. G., [Arsene, C.](#), Olariu, R. I., Gas-phase ozonolysis of three cis-3-hexenyls esters under simulated atmospheric conditions, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD) XIII ed., pp. 26-27, Iași, Romania, 28 October, 2022.
 42. Amarandei, C., Olariu, R. I., [Arsene, C.](#), Mass spectrometry-based molecular profile evaluation for new insights into the atmospheric aerosols, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD) XIII ed., pp. 28-29, Iași, Romania, 28 October, 2022.
 43. Movila, L., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Investigations on the gas-phase kinetics of the OH radical initiated oxidation of selected nitrotoluens, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD) XIII ed., pp. 32-33, Iași, Romania, 28 October, 2022.
 44. Mocanu, R.G., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Investigations of the p-tolualdehyde gas-phase reaction rate coefficient with OH radicals, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD) XIII ed., pp. 34-35, Iași, Romania, 28 October, 2022.
 45. Pintilioaie, B., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Studies on the NO₂, O₃ and formaldehyde detection using newly developed sensor device, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD) XIII ed., pp. 40-41, Iași, Romania, 28 October, 2022.
 46. Olariu, R.I., [Arsene, C.](#), Bejan, I.G., Schimbările climatice: cauz, efecte, soluții, IasiCHEM4 – viitorul științelor chimice în contextul provocărilor actuale ale umanității, Masă rotunda în cadrul Zilelor Universității, Iasi, Romania, 20-31 octombrie, 2022.
 47. [Arsene, C.](#), Olaiu, R.I., Cucu-Man, S., Dirtu, A.C., Buhaceanu, R.L., De la chimia analitică pentru o zi la cea cu aplicații pentru o viață, Masă rotunda în cadrul Zilelor Universității, 20-31 octombrie, Iasi, Romania, 2022.
 48. Roman, C., [Arsene, C.](#), Bejan, G.I., Olariu, R.I., Revisited SAR parameters derived from newly determinations rate coefficients for the gas-phase reactions of OH radicals with a series of nitrocatechols / Revizuirea

- parametrilor SAR utilizați în estimarea reactivității față de radicalii OH derivați din noile determinări cinetice pentru nitrocatecholi, Scientific Session of Undergraduate, Master and PhD Students, XIIth Edition, pp. 6-7, Iasi, Romania, 11-12 November, **2021**;
49. Apostol, V., Roman, C., Iancu, C., Bejan, I.G., Olariu, R.I., [Arsene, C.*](#), Long-term monitoring of optical properties of tropospheric aerosols in the Iasi urban area, north-eastern Romania, Scientific Session of Undergraduate, Master and PhD Students, XIIth Edition, pp. 10-11, Iasi, Romania, 11-12 November, **2021**;
 50. Rusu-Vasilache, A.M., Roman, C., [Arsene, C.](#), Bejan, G.I., Olariu, R.I., OH radicals and ozone kinetic studies with some methyl-butenols under simulated atmospheric conditions / Cinetica în fază gazoasă cu radicali OH și ozon a unei serii de metilbutenoli în condiții de atmosferă simulate, Scientific Session of Undergraduate, Master and PhD Students, XIIth Edition, pp. 12-13, Iasi, Romania, 11-12 November, **2021**;
 51. Mairean, C.P., Roman, C., Bejan, I.G., [Arsene, C.](#), Olariu, R.I., Gas-phase kinetic study of some selected cis-3-hexenyl esters with the OH radicals / Studiul cinetic privind reactivitatea unor esteri cis-3-hexenilici cu radicalii OH în fază gazoasă, Scientific Session of Undergraduate, Master and PhD Students, XIIth Edition, pp. 14-15, Iasi, Romania, 11-12 November, **2021**;
 52. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I., Evaluation of the extended uncertainty for the quantification of rare earth elements by inductively coupled plasma-mass spectrometry / Evaluarea incertitudinii extinse în cuantificarea metalelor rare ale pământului prin spectrometrie de masă cu plasma cuplată inductiv, Scientific Session of Undergraduate, Master and PhD Students, XIIth Edition, pp. 16-17, Iasi, Romania, 11-12 November, **2021**;
 53. Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Molecular tracers method applied for sources apportionment of the organic aerosols from the Iasi urban area, Scientific Session of Undergraduate, Master and PhD Students, XIIth Edition, pp. 18-19, Iasi, Romania, 11-12 November, **2021**;
 54. Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Investigations on the gas-phase photolysis and OH radical kinetics of nitrocatechols, Scientific Session of Undergraduate, Master and PhD Students, XIIth Edition, pp. 24-25, Iasi, Romania, 11-12 November, **2021**;
 55. [Arsene, C.*](#) (online talk), The importance of the laboratory quality management system in the academic curriculum in developing appropriate student competences for our current societal needs, Quality Assurance Elements for Analytical Laboratories in the University Curriculum – Online, Virtual Scientific Workshop Eurachem2020, Quality Assurance for Analytical Laboratories in the University Curriculum, Bucharest, Romania, 15-15 July, **2020**.
 56. Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Implications of matrix effects in quantitative HPLC/ESI-ToF-MS analyses of atmospheric organic aerosol, Quality Assurance Elements for Analytical Laboratories in the University Curriculum – Online, Virtual Scientific Workshop Eurachem2020, Quality Assurance for Analytical Laboratories in the University Curriculum, Bucharest, Romania, 15-15 July, **2020**.
 57. Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Atmospheric organic aerosols in Iasi urban area. Tiny particles with big impact, Abstract Online <https://conferinte.doctoranzi.geo.unibuc.ro/participanti/>, Conferința Națională a Doctoranzilor, Consorțiul Universitar, Bucharest, Romania, 12 December, **2020**.
 58. Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Chemical characterization of atmospheric organic aerosols by high-performance liquid chromatography time-of-flight mass spectrometry, on-line presentation (Cisco Webex platform), 2020, Conferința Școlilor Doctorale din cadrul Universității „Alexandru Ioan Cuza” din Iași, organizată în cadrul proiectului POCU/380/6/13/123623, Iasi, Romania, 24-25 October, **2020**.
 59. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I., Rare Earth Elements analysis in secondary sources using Inductively Coupled Plasma – Mass Spectrometry, on-line presentation (Cisco Webex platform), 2020, Conferința Școlilor Doctorale din cadrul Universității „Alexandru Ioan Cuza” din Iași, organizată în cadrul proiectului POCU/380/6/13/123623, Iasi, Romania, 24-25 October, **2020**.
 60. Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Fragmentor and skimmer voltages effect on the electrospray ionization time-of-flight mass spectrometer response, Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 29-30 October 2020, pp. 6-7, **2020**.
 61. Roman, C., Roman, T., Bejan, I., [Arsene, C.](#), Olariu, R.I., Nitrocatechols: Synthesis, characterization and gas phase kinetic results towards reaction with OH radicals, Abstract in Book of abstracts, pp. 8-9, 2020. Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 29-30 October, **2020**.
 62. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I., Assessing the performance of an analytical procedure using Certified Reference Materials, Abstract in Book of abstracts, pp. 10-11, 2020, Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 29-30 October, **2020**.
 63. Mairean, C.P., Roman, C., Bejan, I.G., [Arsene, C.](#), Olariu, R.I., Gas-phase kinetic study of n-butyl acetate with the OH radicals using the ESC-Q-UIAIC facilities chamber, Abstract in Book of abstracts, pp. 12-13, 2020, Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 29-30 October, **2020**.

64. Apostol, V., Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Optical properties of ambient aerosols: a case study on chemical laboratories indoor environment vs. outdoor conditions, Abstract in Book of abstracts, pp. 18-19, 2020, Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 29-30 October, **2020**.
65. Cernalevschi G., Roman C., Șoroagă L. V., Olariu R. I., [Arsene, C.*](#), Fourier Transformed InfraRed spectroscopy applied in the analysis of active compounds from selected essential oils, Abstract in Book of abstracts, pp. 26-27, 2020, Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 29-30 October, **2020**.
66. Amarandei, C., Galon (Negru), A.G., Olariu, R.I., [Arsene, C.*](#), Investigarea markerilor moleculari organici din atmosfera urbană prin HPLC-ESI-ToF-MS. Dezvoltare de metodă, Conferința Școlilor Doctorale din Consorțiu, Ed. a II-a - 2019/CHIMIE, Timisoara, Romania, 2019.
67. Roman, C., [Arsene, C.](#), Olariu, R.I., Studiul formării aerosolilor organici secundari de la foto-oxidarea atmosferică a 1,2-dihidroxi(alchil)benzenilor inițiată de radicalii OH în condiții controlate de NO_x, Conferința Școlilor Doctorale din Consorțiu, Ed. a II-a - 2019/CHIMIE, Timisoara, Romania, 2019.
68. Soroaga, L.V., [Arsene, C.](#), Olariu, R.I., Analysis of rare earth elements and refractory metals in volcanologic samples by ICP-MS using alkali fusion as sample dissolution procedure, The 10th Scientific Session of Undergraduate, Master and PhD Students, communication, Iasi, Romania, Book of Abstracts, pp. 8, 20-21 June, 2019.
69. Rusu, A.M., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Characterization of a sample preparation methods for the identification of carbonyl compounds by using derivatization technique coupled with GC/Ion Trap MS, The 10th Scientific Session of Undergraduate, Master and PhD Students, communication, Iasi, Romania, Book of Abstracts, pp. 10, 20-21 June, 2019.
70. Roman, C., Bejan, I.G., [Arsene, C.](#), Olariu, R.I., FTIR and PTR-ToF-MS investigations of gas-phase major ring retaining products from OH radical initiated reactions with alkylated phenols, The 10th Scientific Session of Undergraduate, Master and PhD Students, communication, Iasi, Romania, Book of Abstracts, pp. 16, 20-21 June, 2019.
71. Amarandei, C., Galon (Negru), A.G., Olariu, R.I., [Arsene, C.*](#), High-performance liquid chromatography time-of-flight mass spectrometry method development for investigation of organic aerosols, The 10th Scientific Session of Undergraduate, Master and PhD Students, poster, Iasi, Romania, Book of Abstracts, pp. 46, 20-21 June, 2019 (best poster award).
72. Galon (Negru), A.G., Olariu, R.I., [Arsene, C.*](#), The nucleation and growth rates of atmospheric particles in Iasi, northeastern Romania, The 10th Scientific Session of Undergraduate, Master and PhD Students, poster, Iasi, Romania, Book of Abstracts, pp. 48, 20-21 June, 2019.
73. Roman, C., Bejan, I.G., [Arsene, C.](#), Olariu, R.I., PTR-ToF-MS data interpretation for gas phase vocs measurements using the ESC-Q-UAIC atmospheric simulation chamber facility, The 10th Scientific Session of Undergraduate, Master and PhD Students, poster, Iasi, Romania, Book of Abstracts, pp. 56, 20-21 June, 2019.
74. Galon (Negru), A.G., Amarandei, C., Riffault, V., Tomas, A., Duncianu, M., Olariu, R.I., [Arsene, C.*](#), High resolution time-of-flight mass spectrometry in submicrometric aerosol particles characterization, National Conference of the Doctoral Schools from Universtaria Consortium, 1st Edition, Iasi, Romania, Book of Abstracts, pp. 27, oral communication, 31 October – 3 November, 2018.
75. Soroaga, V.L., [Arsene, C.](#), Olariu, R.I., Analiza elementelor rare ale pamanturilor folosind spectrometria de masa cu plasma cuplata inductiv, National Conference of the Doctoral Schools from Universtaria Consortium, 1st Edition, Iasi, Romania, Book of Abstracts, pp. 30, oral communication, 31 October – 3 November, 2018.
76. Roman, C., [Arsene, C.](#), Olariu, R.I., Camera de reacție ESC-Q-UAIC, un instrument analitic adecvat pentru studiul chimiei atmosferei, National Conference of the Doctoral Schools from Universtaria Consortium, 1st Edition, Iasi, Romania, Book of Abstracts, pp. 39, oral communication, 31 October – 3 November, 2018.
77. Rusu, A.M., Roman, C., [Arsene, C.](#), Olariu, R.I., Constanta de viteză a reacției în fază gazoasă a 3-metil-2-buten-1-ol cu radicalii OH la 298 K și presiune atmosferică, National Conference of the Doctoral Schools from Universtaria Consortium, 1st Edition, Iasi, Romania, Book of Abstracts, pp. 46, oral communication, 31 October – 3 November, 2018.
78. Olariu, R.I., [Arsene, C.](#), Relevant kinetic data for atmospheric degradation of selected volatile organic compounds: ESC-Q-UAIC Simulation Chamber Studies, IasiChem 2018, Faculty of Chemistry Conference, Iasi, Romania, Book of Abstracts, 25 – 26 October, 2018.
79. Rusu, A.M., Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Kinetic study of the gas-phase reaction of OH radicals with 3-methyl-2-buten-1-ol at 298 K and atmospheric pressure, IasiChem 2018, Faculty of Chemistry Conference, Iasi, Romania, Book of Abstracts, pp. 49, poster, 25 – 26 October, 2018.
80. Amarandei, C., Galon (Negru), A.G., Riffault, V., Tomas, A., Duncianu, M., Bejan, I.G., Olariu, R.I., [Arsene, C.*](#), Attempts to characterize the organic aerosols using an Aerodyne High-Resolution Aerosol Mass Spectrometer, IasiChem 2018, Faculty of Chemistry Conference, Iasi, Romania, Book of Abstracts, pp. 33, poster, 25 – 26 October, 2018.

81. Soroaga, V.L., [Arsene, C.](#), Breaban, I.G., Bobric, E.D., Olariu, R.I., Rapid analysis of rare earth elements from solid samples by using on-line dissolution and Inductively Coupled Plasma-Mass Spectrometry, IasiChem 2018, Faculty of Chemistry Conference, Iasi, Romania, Book of Abstracts, pp. 32, poster, 25 – 26 October, 2018.
82. Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I., Rate coefficients for the gas-phase OH radical initiated oxidation of 2,3,5-trimethylfuran in atmospheric conditions, IasiChem 2018, Faculty of Chemistry Conference, Iasi, Romania, Book of Abstracts, pp. 50, poster, 25 – 26 October, 2018.
83. Amarandei, C., Galon (Negru), A.G., Mutzel, A., Herrmann, H., Olariu, R.I., [Arsene, C.*](#) A preliminary investigation on the chemical composition of secondary organic aerosols in the north-eastern Romania, The XXXV-th Romanian Chemistry Conference, Posters Section, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, Book of Abstracts, Chimie Anorganica, Bioanorganica si Analitica, pp. 3, poster, 02 – 05 October, 2018.
84. Rusu, A.M., Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Gas chromatography-mass spectrometry (GC-MS) analysis of gaseous methylglyoxal after derivatization and solid phase extraction, The XXXV-th Romanian Chemistry Conference, Posters Section, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, Chimie Anorganica, Bioanorganica si Analitica, pp.11, poster, 02 – 05 October, 2018.
85. Galon (Negru), A.G., Olariu, R.I., [Arsene, C.*](#), Investigation on new atmospheric particles formation and growth in Iasi, north-eastern Romania, The XXXV-th Romanian Chemistry Conference, Posters Section, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, Chimie Anorganica, Bioanorganica si Analitica, pp. 16, poster, 02 – 05 October, 2018.
86. Soroaga, L.V., [Arsene, C.](#), Borcia, C., Olariu, R.I., ICP-MS analysis of rare earth elements in samples enriched by using environmentally friendly methods, The XXXV-th Romanian Chemistry Conference, Posters Section, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, Chimie Anorganica, Bioanorganica si Analitica, pp. 26, poster, 02 – 05 October, 2018.
87. Roman, C., [Arsene, C.](#), Bejan I.G., Olariu R.I., Rate coefficient of the gas-phase atmospheric OH radical initiated oxidation of 2-methoxyphenol, The XXXV-th Romanian Chemistry Conference, Posters Section, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, Protectia Mediului si Monitorizare/Inginerie Chimica si Bioinginerie, pp. 16, poster, 02 – 05 October, 2018.
88. Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Kinetic study of the gas-phase OH radical initiated oxidation of 2-methylfuran in atmospheric conditions, The XXXV-th Romanian Chemistry Conference, pp.17, Posters Section, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, Protectia Mediului si Monitorizare/Inginerie Chimica si Bioinginerie, pp.17, poster, 02 – 05 October, 2018.
89. Galon-Negru, A.G., Olariu, R.I., [Arsene, C.*](#), Meteorological parameters role on the formation and growth of new atmospheric particles in Iasi urban area, The 9th Scientific Session of Undergraduate, Master and PhD Students, pp. 5, Iasi, Romania, oral communication, 29-30 June 2018.
90. Roman, C., [Arsene, C.](#), Bejan, I.G., Duncianu, M., Tomas, A., Riffault, V., Olariu, R.I., Rate coefficients of the gas-phase ozonolysis of C5-C6 unsaturated aldehydes, The 9th Scientific Session of Undergraduate, Master and PhD Students, pp. 9, Iasi, Romania, 29-30 June 2018.
91. Amarandei, C., Galon-Negru, A.G., Cucu-Man, S.M., Olariu, R.I., [Arsene, C.*](#), Assessment of lake water chemistry using statistical analysis, pp. 35, The 9th Scientific Session of Undergraduate, Master and PhD Students, pp. 35, Iasi, Romania, poster, 29-30 June 2018.
92. Rusu, A.M., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Development of a new method for carbonyls analysis in the atmosphere by using solid phase derivatization coupled with GC/Ion Trap MS technique, The 9th Scientific Session of Undergraduate, Master and PhD Students, pp. 37, Iasi, Romania, 29-30 June 2018.
93. Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Rate coefficient of the gas-phase OH radical initiated oxidation of 2,5-dimethylfuran at 298 ± 2 K and atmospheric pressure, The 9th Scientific Session of Undergraduate, Master and PhD Students, pp. 41, Iasi, Romania, 29-30 June 2018.
94. Soroagă, L.V., [Arsene, C.](#), Olariu, R.I., Sintering as sample dissolution procedure for complex matrices prior analysis of REEs by ICP-MS Sintering as sample dissolution procedure for complex matrices prior analysis of REEs by ICP-MS, The 9th Scientific Session of Undergraduate, Master and PhD Students, pp. 45, Iasi, Romania, 29-30 June 2018.
95. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#) 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, abstract in Acta Chemica Iasi, 25(2), 232-303 (259), 2017, DOI: 10.1515/achi-2017-0018.
96. Petrea-Ioneasa, M., Bejan, I.G., Olariu, R.I., [Arsene, C.*](#), Gas-phase kinetic study of OH radical reactions with selected saturated ketones, 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCE 2017, 06-09 September 2017, Poiana Brasov, Romania, S3-209, 2017.

97. Olariu, R.I., Roman, C., Bejan, I.G., [Arsene, C.](#), ESC-Q-UAIC chamber, a proper analytical tool for the estimation of infrared absorption cross sections for selected volatile organic compounds in the gas phase, , 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCE 2017, 06-09 September 2017, Poiana Brasov, Romania, S5-207, 2017.
98. Bejan, I.G., [Arsene, C.](#), Olariu, R.I., Barnes, I., Wiesen, P., Atmospheric chemistry of catechol. Product studies and mechanistic investigations, 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCE 2017, 06-09 September 2017, Poiana Brasov, Romania, S5-252, 2017.
99. [Arsene, C.*](#), Olariu, R.I., Chemistry, the driving force of our every day's life....from fun and danger to scientific challenges, SCIENVIR 2017 Scientific Convergence and Interdisciplinarity in EU Environmental Research, International Conference, Iasi, Romania, 15-17 June, 2017, in Abstract Book, pp. 39, 2017.
100. Olariu, R.I., [Arsene, C.](#), Bejan, I.G., The role of environmental simulation chambers to the study of atmospheric pollutants evolution, conference at SCIENVIR 2017, 1st SCIENVIR International Conference, Scientific Convergence and Interdisciplinarity in EU Environmental Research, Iasi, Romania, 15-17 June, 2017, METHodologies in Environmentally focused socioeconomic Research (METER), SCIENVIR 2017 International Conference, Programme, 15-17 June, 2017.
101. Olariu, R.I., [Arsene, C.](#), Seminar: METHodologies in Environmentally focused socioeconomic Research (METER), SCIENVIR 2017 International Conference Programme, Iasi, Romania, 15-18 June, 2017.
102. Galon (Negru), A.G., Olariu, R.I., [Arsene, C.*](#), Atmospheric behavior of water soluble organic anions in fine and coarse particulate matter from Iasi, Romania, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 26 - 28 October, 2017, abstract in Acta Chimica Iasi, 25(2), 304-342 (322), 2017, DOI: 10.1515/achi-2017-0019.
103. Amarandei, C., Galon (Negru), A.G., Cucu-Man, S.M., Olariu, R.I., [Arsene, C.*](#), Pedologic, atmospheric or anthropogenic contributions as driving forces for aquaculture water quality. A case study for an artificial lake from the north-eastern Romania, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 26 - 28 October, 2017, abstract in Acta Chimica Iasi, 25(2), 304-342 (324), 2017, DOI: 10.1515/achi-2017-0019.
104. Roman, C., Bejan, I.G., [Arsene, C.](#), Olariu, R.I., FT-IR gas-phase products study of OH radicals initiated photooxidation of phenol, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 26 - 28 October, 2017, abstract in Acta Chimica Iasi, 25(2), 304-342 (327), 2017, DOI: 10.1515/achi-2017-0019.
105. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), QuEChERS and ultrasound-assisted extraction as preparative tools for various secondary metabolites analysis by GC-MA tehnique, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 26 - 28 October, 2017, abstract in Acta Chimica Iasi, 25(2), 304-342 (333), 2017, DOI: 10.1515/achi-2017-0019.
106. Galon (Negru), A.G., Olariu, R.I., [Arsene, C.*](#), Size distributions of water soluble aluminium and magnesium in atmospheric aerosols from Iasi, Romania, The 8th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 30 June, pp. 4, 2017, abstract in Acta Chimica Iasi, 25(1), 99-111 (102), 2017, DOI: 10.1515/achi-2017-0010.
107. Roman, C., [Arsene, C.](#), Bejan, I., Olariu, R.I., Gas-phase FT-IR kinetic study of the OH radicals reaction with phenol, The 8th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 30 June, pp. 6, 2017, abstract in Acta Chimica Iasi, 25(1), 99-111 (103), 2017, DOI: 10.1515/achi-2017-0010.
108. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), Accumulation of selected tocopherols in Datura inoxia structural constituents, The 8th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 30 June, pp. 14, 2017, abstract in Acta Chimica Iasi, 25(1), 99-111 (107), 2017, DOI: 10.1515/achi-2017-0010.
109. Petrea-Ioneasa, M., Bejan, I.G., Olariu, R.I., [Arsene, C.*](#), Investigations on the gas-phase oh radical initiated oxidation of 5-methyl-2-hexanone and 2-heptanone. A kinetic approach, The 8th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 30 June, pp. 20, 2017, abstract in Acta Chimica Iasi, 25(1), 99-111 (110), 2017, DOI: 10.1515/achi-2017-0010.
110. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), Datura inoxia, planta medicinala sau ingredient etnobotanic?, Conferinta de Criminalistica, 01-02 April 2017, Iasi, Romania, 2017.
111. Olariu, R.I., [Arsene, C.](#), Centrul CERNESIM: O nouă infrastructură de cercetare pentru studii integrate de mediu inclusiv de biodiversitate pentru Regiunea de Nord-Est a României "Aspecte etologice și ecologice privind ornitofauna urbană din zona Moldovei", Universitatea "Ion Ionescu" de la Brad din Iasi, Romania, 08-09 Decembrie 2017.
112. Galon (Negru), A.G., Olariu, R.I., [Arsene, C.*](#), Vertical transport of continental air masses and their influence on the distribution of size resolved aerosols from Iasi, Romania, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 27 - 29 October, Acta Chimica Iasi, 24(2), pp. 166, 2016.

113. Coman (Babusanu), A.C., Mardare (Balusescu), G., Ababei (Hogas), G.I., Butnaru, E., Olariu, R.I., [Arsene, C.*](#), Dynamics of tebuconazole and other combination fungicide formulations in Jonathan and Golden Delicious apple leaves, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 27 - 29 October, Acta Chimica Iasi, 24(2), pp. 177, 2016.
114. Roman, C., Bejan, I., [Arsene, C.](#), Olariu, R.I., Gas phase infrared absorption cross sections for a series of aromatic compounds in the ESC-Q-UAIC chamber, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 27 - 29 October, 2016.
115. Soroaga, L.V., [Arsene, C.](#), Borcia, C., Olariu, R.I., Rare earth elements (REEs) microwave assisted extraction for further analysis by inductively coupled plasma mass spectrometry (ICP-MS), "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 27 - 29 October, 2016.
116. Olariu, R.I., [Arsene, C.](#), Bejan, I., Newly designed simulation chamber for atmospheric chemistry investigations, XXXIV-th Romanian Chemistry Conference, Valcea, Romania, 04-07 October, pp. 9, 2016.
117. Soroaga, L.V., [Arsene, C.](#), Pintilei, M., Nica, V., Borcia, C., Olariu, R.I., Chemical characterisation of a series of samples as secondary sources for rare elements, XXXIV-th Romanian Chemistry Conference, Valcea, Romania, 04-07 October, pp. 7, 2016.
118. Bejan, I., [Arsene, C.](#), Olariu, R.I., Atmospheric chemistry investigations in a newly designed gas phase simulation chamber (ESCQ-UAIC), 3rd International Conference on Analytical Chemistry, Iasi, Romania, 28-31 August, pp. 49, 2016.
119. Galon (Negru), G.A., Pruna, I., Olariu, R.I., [Arsene, C.*](#), Mono- and multimodal distributions of water soluble ionic species in urban particulate matter from Iasi, Romania, The 7th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 24 June, Acta Chimica Iasi, 24(1), pp. 65, 2016.
120. Soroaga, L.V., Olariu, R.I., Galon (Negru), A.G., [Arsene, C.*](#), Elemental and morphological analysis of airborne particulate matter collected in Iasi, north-eastern Romania, The 7th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 24 June, Acta Chimica Iasi, 24(1), pp. 66, 2016.
121. Rusu, A.M., Matei, M., Mahu, E., Ababei, G.I., Cucu, D., Smadici, R.M., Badragan, L.O., Aonigioaiei, C., Bivol (Augustin), G., Cretu, A.F., Damaschin, R.P., Olariu, R.I., [Arsene, C.*](#), On how the lack of experience in hplc measurements of aspirin, a selected medicine, can bring you into the trap of elaborating erroneously conclusion, The 7th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 24 June, Acta Chimica Iasi, 24(1), pp. 67, 2016.
122. Marin, S.L., Bejan, I., [Arsene, C.](#), Olariu, R.I., FT-IR kinetic study of the gas-phase reaction of 2,6-dimethylphenol with OH radicals, The 6th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 24 June, Acta Chimica Iasi, 24(1), pp. 68, 2016.
123. Galon (Negru), G.A., Olariu, R.I., [Arsene, C.*](#), Trace water soluble ions in fine atmospheric particles from Iasi, north-eastern Romania, in Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, Florescu, M., Raicu, V., LeGac, S., Turcu, I., Maerty, J.L., Eds., Transilvania University Press, IC-ANMBES 2016, 29 June-01 July, ISSN 2360-3461, pp. 116, 2016.
124. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), Gas Chromatography/Mass Spectrometry (GC/MS) as Challenging Problems Solving Microanalytical Tools, in Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, Florescu, M., Raicu, V., LeGac, S., Turcu, I., Maerty, J.L., Eds., Transilvania University Press, IC-ANMBES 2016, 29 June-01 July, ISSN 2360-3461, pp. 121, 2016.
125. Galon (Negru), G.A., Olariu, R.I., [Arsene, C.*](#), Atmospheric behavior and size distribution of water soluble acetate, formate and oxalate ions in urban aerosols from Iasi, Romania, The International Conference CHIMIA 2016 "New Trends in Applied Chemistry", Constanta, Romania, 26-28 May, Ovidius University Press, Constanta, ISSN 2360-3941, pp. 34, 2016.
126. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), Methoxy phenols and other structural constituents in *Datura innoxia* seeds. Mechanistic approaches, The International Conference CHIMIA 2016 "New Trends in Applied Chemistry", Constanta, Romania, 26-28 May, Ovidius University Press, Constanta, ISSN 2360-3941, pp. 35, 2016.
127. Galon (Negru), G.A., Olariu, R.I., [Arsene, C.*](#), Particulate matter and gaseous pollutants variability in Iasi urban area, north-eastern Romania, 12th International Conference on Colloid and Surface-Chemistry, ICCSC-2016, Iasi, Romania, 16-18 May, pp. 53, 2016.
128. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), Sterols in *Datura innoxia* as potential key source specific tracers for organic components in ambient atmospheric aerosol particles, 12th International Conference on Colloid and Surface-Chemistry, ICCSC-2016, Iasi, Romania, 16-18 May, pp. 68, 2016.
129. Galon (Negru), G.A., Olariu, R.I., [Arsene, C.*](#), Mass concentrations and chemical composition of size resolved atmospheric aerosols in the north-eastern Romania, Iasi region, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCE I), Cluj-Napoca, Romania, 12-14 May, pp. 35, 2016.

130. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.](#), Gas chromatography-mass spectrometry analysis of a lignin marker and an indirect contributor to secondary organic aerosols in the atmosphere: p-vinylguaiacol in *Datura innoxia*, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), Cluj-Napoca, Romania, 12-14 May, pp. 33, 2016.
131. Marin, S.L., Galon (Negru), A.G., Mardare (Balusescu), G., Bejan, I., Olariu, R.I., [Arsene, C.](#), Gas-phase kinetic study of OH radical reactions with mesitylene in the newly designed ESCQ-UAIC chamber, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), Cluj-Napoca, Romania, 12-14 May, pp. 34, 2016.
132. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.](#), Tandemul cromatografie de gaze-spectrometrie de masă ca instrument ideal în decelarea „drogurilor ascunse” de „natura verde”, Conferinta de Criminalistica, 4th Edition, Iasi, Romania, 02-03 April, 2016.
133. Marin, S.L., Olariu, R.I., [Arsene, C.](#), Morphological and microchemical surface analyses of modern coins minted in the 20th century, Abstracts for Faculty of Chemistry Conference, Iasi, Romania, 29-31 October, Acta Chimica Iasi, 23(2), pp. 114, 2015.
134. Mardare, G.M., Olariu, R.I., [Arsene, C.](#), Gas chromatography-mass spectrometry analysis of intermediates involved in lysergic acid biosynthesis in plants, Abstracts for Faculty of Chemistry Conference, Iasi, Romania, 29-31 October, Acta Chimica Iasi, 23(2), pp. 124, 2015.
135. Mardare, G.M., Olariu, R.I., [Arsene, C.](#), Gas chromatographic analysis of secondary metabolites in *Datura innoxia*, International Conference of Young Researchers, New Trends in Environmental and Materials Engineering, Galati, Romania, 21-23 October, 2015.
136. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.](#), Chromatographic fingerprints as a first step in the long way of deciphering the very complex nature of herbal materials, The 6th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 26 June, Acta Chimica Iasi, 23(1), pp. 55, 2015.
137. Mardare, G.M., Olariu, R.I., [Arsene, C.](#), Secondary metabolites, drugs precursors and chromatographic techniques as interrelated concepts in forensic chemistry, Conferinta internationala de criminalistica „Clasic si modern in obtinerea si valorificarea stiintifica a probatoriului”, Cluj Napoca, Romania, 13-15 May, 2015.
138. Petrea-Ioneasa, G., Petrea-Ioneasa, M., Rusu, A.M., Gitman, A., Bibire, N., Olariu, R.I., [Arsene, C.](#), Reversed-phase high performance liquid chromatographic assay method of active pharmaceutical ingredients in anti-tuberculosis 2-fixed dose combination tablets, Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, Acta Chimica Iasi, 22(2), pp. 215, 2014.
139. Negru, A.G., Zbancioc, G., Mangalagiu, I., [Arsene, C.](#), Olariu, R.I., Physico-chemical behaviour of newly synthesized organic compounds. A reality between expectations and experimental evidences, Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, Acta Chimica Iasi, 22(2), pp. 216, 2014.
140. Mardare-Balusescu, G., Soroaga, L.V., Marin, L.S., Agafitei, M.C., [Arsene, C.](#), Olariu, R.I., Physico-chemical forensic expertise in the analysis of soil samples by graphite furnace atomic absorption spectrometry, “Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, Acta Chimica Iasi, 22(2), pp. 261, 2014.
141. Petrea-Ioneasa, M., Olariu, R.I., [Arsene, C.](#), Water soluble organic carbon in aerosols from Iasi, north-eastern Romania, “Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, Acta Chimica Iasi, 22(2), pp. 262, 2014.
142. Olariu, R.I., [Arsene, C.](#), Barnes, I., Klotz, B., Becker, K.H., Gas-phase absorption cross sections of selected aromatic hydrocarbons in the IR spectral ranges, “Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, 2014.
143. Bibire, N., Olariu, R.I., Vieriu, M., Panainte, A.D., Cernat, R.I., [Arsene, C.](#), Analiza prin cromatografie de lichide de inalta performanta cu faza inversa a unor medicamente antituberculoase de prima linie/Reversed phase-high performance liquid chromatographic analysis of some first line antituberculosis drugs, Congresul National de Farmacie din Romania, editia a-XV-a, Iasi, Romania, 24-27 September, Volum de rezumate, ISBN 978-606-544-252-8, Editura „Gr. T. Popa”, UMF Iasi, pp. 312, 2014.
144. [Arsene, C.](#), 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 Mai, 2014.
145. [Arsene, C.](#), Workshop “Luminol and Kastle Mayer”, International Conference in Forensics, Iasi Romania, 05-06 April, 2014.
146. [Arsene, C.](#), Olariu, R.I., Duncianu, M., Riffault, V., Tomas, A., 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”, Book of Abstract, Iasi, Romania, 31 October-02 November, Acta Chimica Iasi, 21(2), pp. 26, 2013.

147. Olariu, R.I., Barnes, I., Bejan, I., [Arsene, C.](#), Vione, D., Klotz, B., Becker, K.H., Night chemistry of hydroxyl(methyl)benzenes: New directions in atmospheric chemistry at the Al.I.Cuza University of Iasi, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference & Mini-Hot-Conference: „Recent Achievements in Organic and Supramolecular Chemistry,, Book of Abstract, Supplement of the Acta Chimica Iasi journal, Iasi, Romania, 31 October-02 November, Acta Chimica Iasi, 21(2), pp. 20, 2013.
148. [Arsene, C.](#), Cromatografia in macro si microcosmosul investigatiilor criminalistice. In cautarea acului in carul cu fan, Conferinta Nationala "Criminalist pentru o zi", Iasi, Romania, 23 Iunie, 2013.
149. Pindaru, D.M., Tanase, C., Iftime, C.M., [Arsene, C.](#), Olariu, R.I., Analiza speciilor ionice solubile în apa din materia particulata atmosferic si din populatiile de ciuperci lichenizate Xanthoria parietina si Phaeophyscia orbicularis din zona urbana Iasi, Faculty of Chemistry Conference Iasi, Romania, 25-26 October, 2012.
150. Pindaru, D.M., Tanase, C., [Arsene, C.](#), Olariu, R.I., Influenta poluanților asupra speciilor de ciuperci lichenizate Xanthoria parietina si Phaeophyscia orbicularis, in Sesiunea de comunicari stiintifice, Facultatea de Biologie, Universitatea „Alexandru Ioan Cuza” Iasi, Iasi, Romania, 26-27 October, pp. 38, 2012.
151. Pindaru, D.M., Tanase, C., [Arsene, C.](#), Olariu, R.I., Biological and chemical characterisation of cortical lichenised fungi specimens, in „Rezultate de excelenta in cercetarea stiintifica, un prim pas spre inserarea profesionala. Conferinta anuala a scolilor doctorale” POSDRU 107/1.5/S/78342 DOC-Paideia, Iasi, Romania, 19-20 October, pp. 6, 2012.
152. Pindaru, D.M., Tanase, C., [Arsene, C.](#), Olariu, R.I., Impactul nutrientilor atmosferici asupra frecventei ciupercilor lichenizate in centrele urbane, in Simpozion stiintific "Conservarea diversității plantelor in situ și ex situ", Gradina Botanica, ISBN 978-973-640-677-5, Iasi, Romania, 27-29 October, pp. 105-106, 2011.
153. Pindaru, D.M., Iftime, C.M., [Arsene, C.](#), Olariu, R.I., Tanase, C., Variabilitatea unor parametri chimici din ciupercile lichenizate Xanthoria parietina si Phaeophyscia orbicularis colectate din zona urbană Iasi, Faculty of Chemistry Conference, Iasi, Romania, 28 October, 2011.
154. Pindaru, D.M., Tanase, C., [Arsene, C.](#), Olariu, R.I., Xanthoria parietina and Phaeophyscia orbicularis as lichenized fungi used in air quality biomonitoring of Iasi region, in „Rezultate de excelenta in cercetarea stiintifica, un prim pas spre inserarea profesionala. Conferinta anuala a scolilor doctorale” POSDRU 107/1.5/S/78342 DOC-Paideia, ISBN 978-973-0-11612-0, Iasi, Romania, 21-22 October, pp. 11, 2011.
155. [Arsene, C.](#), Olariu, R.I., Duncianu, M., Chemical composition of tropospheric aerosols in Iasi, north-eastern Romania, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, pp. 233, 2010.
156. [Arsene, C.](#), Humelnicu, D., Olariu, R.I., Solid-phase extraction-spectrophotometric determination of the radionuclides in water samples, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, pp. 230, 2010.
157. Pindaru, D., Tanase, C., Barsan, C., Olariu, R.I., [Arsene, C.](#), Atmospheric organic nitrogen deposition fluxes from the fine and coarse particles in Iasi, north-eastern Romania, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, pp. 238, 2010.
158. Marcu, M., Olariu, R.I., [Arsene, C.](#), Speciation and temporal variability of iron in wet and dry deposition in Iasi, north-eastern Romania, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, pp. 237, 2010.
159. Bertescu, M., [Arsene, C.](#), Duncianu, M., Humelnicu, D., Mantu, D., Olariu, R.I., Solid-phase extraction of ultratrace thorium(IV) in water samples using polioxometalic material modified with silica and its spectrophotometric determination with arsenazo II, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, pp. 241, 2010.
160. Cernat, R.I., Mihaescu, T., Mocanu, R.D., Olariu, R.I., [Arsene, C.](#), Studii privind determinarea unor elemente esențiale în probe biologice (păr, piese, spută) provenite de la indivizi în diferite stări clinice. INSPIR. Conferința Națională de Pneumologie, Iași, România, 2010.
161. Cernat, R.I., Butnaru, L., Mihaescu, T., Olariu, R.I., [Arsene C.](#), Ceruloplasmin and copper concentrations in patients with active pulmonary tuberculosis, 5th Conference of the Romanian Association of Medical Laboratories, Mamaia, Romania, 16-19 June, 2010.
162. Cernat, R.I., Mihaescu, T., Mocanu, R.D., Olariu, R.I., [Arsene, C.](#), Comportamentul fierului, feritinei si transferinei serice la adultii tratati pentru tuberculoza pulmonara activa, in Al 21-lea Congres al Societatii Romane de Pneumologie, Plamanul, parte a unui intreg; www.congrespneumo2010.com, ISBN: 978-973-0-08646-1, Bucharest, Romania, 09-12 June, pp.10-10, 2010.
163. Bertescu, M., Humelnicu, D., Mantu, D., Humelnicu, I., [Arsene C.](#), Olariu, R.I., pH influence on the extraction in solid phase on the Th(IV) ions onto POMs sorbent type, pp. 170, in 14th International Conference on Physical Chemistry, ROMPHYSICHEM-14, Bucharest, Romania, 02-04 June, 2010.
164. Gherasim, C.V., Bourceanu, G., Olariu, R.I., [Arsene, C.](#), Selective separation of lead (II) ions using a PVC-based polymer inclusion membrane, in International Conference on Fishery and Aquaculture, A view point upon the

- sustainable management of the water resources in the Balkan area, Marine, fresh water and soil pollution – public health protection section, Galati, Romania, 26-28 May, pp. 10, 2010.
165. Olariu, R.I., Duncianu, M., [Arsene, C.](#), Wirtz, K. Determination of photolysis frequencies for VOCs using the Euphore chamber facilities, in 10th International Balkan workshop on Applied Physics, Ovidius University Press, ISBN 978-973-614-507-0, Constanta, Romania, 06-08 July, pp. 198, 2009.
 166. Humelnicu, D., Olariu, R.I., [Arsene, C.](#), Synthesis and characterisation of some isopolyoxomolybdates with UO_2^{2+} and Th^{4+} ions, in International Conference, Chimia 2009, New Trends in Applied Chemistry, Ovidius University Press, ISBN 978-973-614-500-1, Constanta, Romania, 13-16 May, pp. 89-90, 2009.
 167. Cernat, R.I., Mocanu, R.D., Olariu, R.I., [Arsene, C.](#), Rolul metalelor in urme in anemia cronica inflamatorie, The days of the „Al.I. Cuza” University of Iasi, Iasi, Romania, 2009.
 168. [Arsene, C.](#), Olariu, R.I., Kanakidou, M., Mihalopoulos, N., On how sodium and ammonium chloride salts may influence aerosols chemistry, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 2009.
 169. [Arsene, C.](#), Olariu, R.I., Bougiatioti, A., Mihalopoulos, N., Meteorological factors role in hydrocarbons distribution, The days of the „Al.I. Cuza” University of Iasi, Iasi, Romania, 2009.
 170. Pindaru, D., Bertescu, M., Paslaru, E., Burghel, B., Diaconu, R., Mahu, L., Marcu, M., Oniciuc, A., Onila, I., Parasca, M., Pascaru, A., Parparita, E., Olariu, R.I., [Arsene, C.](#), Variabilitatea spatiala a parametrilor de calitate din apa potabila. Regiunea de NE a Romaniei (Iasi, Vaslui, Suceava), The days of the „Al.I. Cuza” University of Iasi, Iasi, Romania, 2009.
 171. Baesu-Gherasim, C.V., Bourceanu, G., Olariu, R.I., [Arsene, C.](#), Studii asupra extractiei si transportului prin membrane lichide a ionilor Pb (II), The days of the „Al.I. Cuza” University of Iasi, Iasi, Romania, 2009.
 172. Cernat, R., Butnaru, L., Cioroiu, M., Balta, L., Mocanu, R., [Arsene, C.](#), Cuprul si zincul, indicatori pentru eventuale afectiuni pulmonare, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 24-25 October, 2008.
 173. Cernat, R., Butnaru, L., Cioroiu, M., Balta, L., Mocanu, R., [Arsene, C.](#), Variabilitatea parametrilor biochimici in diferite boli pulmonare, Conferinta Internationala de Pneumologie INSPIR, Iasi, Romania, 2008.
 174. Olariu, R.I., [Arsene, C.](#), Barnes, I., Becker, K.H., Secondary organic aerosol formation from selected aromatic hydrocarbons under simulated atmospheric conditions, Mediul actual&dezvoltarea durabilă, Al 3^{lea} Simpozion International de Geografia Mediului, Iasi, Romania, 17-19 October, 2008.
 175. [Arsene, C.](#), Non-methane hydrocarbon measurements. Implications for the atmospheric photochemistry, pp. 361, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, 2008.
 176. [Arsene, C.](#), Olariu, R.I., Theodosi, Ch., Mihalopoulos, N., Trace metals in precipitation in an urban area of Romania, pp. 360, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, 2008.
 177. Duncianu, M., Vione, D., [Arsene, C.](#), Olariu, R.I., Kinetic study regarding the nitrophenols decay pathways in atmospheric aqueous phase and surface waters, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, pp. 337, 2008.
 178. Olariu, R.I., Humelnicu, D., [Arsene, C.](#), Synthesis and chemical characterization of new UO_2^{2+} and Th^{4+} isopolyoxomolybdate and isopolyoxotungstate derivative complexes, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, pp. 149, 2008.
 179. Humelnicu, D., Olariu, R.I., [Arsene, C.](#), Synthesis of heteropolyoxometalates with uranyl and thorium ions with possible applications in the decontamination of radioactive liquid wastes, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, pp. 124, 2008.
 180. Dirtu, A.C., Cernat, R., [Arsene, C.](#), Covaci, A., Phenolic organohalogenated contaminants in human serum from Belgium and Romania, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, pp. 406, 2008.
 181. Cernat, R., Butnaru, L., Cioroiu, M., Balta, L., Mocanu, R., [Arsene, C.](#), Variability of biochemical parameters in various lung diseases/Variabilitatea parametrilor biochimici in diferite boli pulmonare, Conferinta de Pneumologie cu participare internationala INSPIR 2008, Editia VI, Iasi, Romania, September, pp. 40-41, 2008.
 182. [Arsene, C.](#), Olariu, R.I., Mihalopoulos, N., Chemical composition of rainwater in the north-eastern part of Romania, Environmental Research and Mitigation of Water Pollution in Romania and in the Lower Danube Region, International ESTROM Conference, Bucharest, Romania, 03-05 September, 2008.
 183. Cernat, R., Cioroiu, M., Mocanu, R., [Arsene, C.](#), Folosirea indicilor biochimici in atribuirea tuberculozei pulmonare, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 26-27 October, 2007.
 184. Olariu, R.I., Vione, D., Cucu-Man, S., Duncianu, M., [Arsene, C.](#), A case study of the groundwater quality in the village of Letcani, Iasi, Romania, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 26-27 October, 2007.

185. [Arsene, C.](#), Mihalopoulos, N., Olariu, R.I., Ivanuca, S., Miron, A., Motu, M., Puscasu, C.M., Chemical characterisation of precipitation in the north eastern part of Romania, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 2006.
186. [Arsene, C.](#), Olariu, R.I., Mihalopoulos, N., Organic and inorganic acidity in a wet precipitation study in the northeastern Romania, 2nd International Conference on Environmental Research and Assessment, Bucharest, Romania, 05-08 October, 2006.
187. [Arsene, C.](#), Bougiatioti, E., Mihalopoulos, N., Development of a gas chromatographic method (GC) for non-methane hydrocarbons (NMHCs) measurements in the gas phase, A XXIX- a Conferinta Nationala de Chimie, ISBN-10 973-750-049-0; ISBN-13 978-973-750-049-6, Calimanesti-Valcea, Romania, 04-06 October, pp. 377, 2006.
188. [Arsene, C.](#), Barnes, I., Albu, M., Olariu, R.I., Bejan, I., Wirtz, K., Gas phase reactions of organic sulphur compounds with Cl atoms and NO₃ radicals, A XXIX- a Conferinta Nationala de Chimie, ISBN-10 973-750-049-0; ISBN-13 978-973-750-049-6, Calimanesti-Valcea, Romania, 04-06 October, pp. 376, 2006.
189. Olariu, R.I., Rinaldi, E., Ravizolli, B., Vione, D., [Arsene, C.](#), Spatial and temporal variation of groundwater nitrate concentration in a rural area in the northeastern Romania, A XXIX- a Conferinta Nationala de Chimie, ISBN-10 973-750-049-0; ISBN-13 978-973-750-049-6, Calimanesti, Romania, 04-06 October, pp. 449, 2006.
190. [Arsene, C.](#), Vione, D., Olariu, R.I., Nitrate in ground waters-still an important problem?, in EnvEdu 2005 Conference, Trends in Environmental Education, Badea, M., Sica, M., Draghici, C., eds., ISBN 973-635-554-3, Editura Universitatii Transilvania Brasov, Brasov, Romania, pp. 78, 2005.
191. Olariu, R.I., [Arsene, C.](#), Reviejo, M.M., Wirtz, K., European photoreactor - Euphore. Technical descriptions and facilities, EnvEdu 2005 Conference, Trends in Environmental Education, Badea, M., Sica, M., Draghici, C., eds., ISBN 973-635-554-3, Editura Universitatii Transilvania Brasov, Brasov, Romania, pp. 61, 2005.
192. Bejan, I., Olariu, R.I., [Arsene, C.](#), Barnes, I., Mocanu, R., Becker, K.H., Laboratory simulation chamber – a microscale atmosphere, in EnvEdu 2005 Conference, Trends in Environmental Education, Badea, M., Sica, M., Draghici, C., eds., ISBN 973-635-554-3, Editura Universitatii Transilvania Brasov, Brasov, Romania, pp. 81, 2005.
193. [Arsene, C.](#), Olariu, R.I., Mihalopoulos, N., Annual wet deposition of sulphate and nitrate in Iasi, Romania, in 3rd Black Sea Basin Conference on Analytical Chemistry, Process Related Environmental Analytical Chemistry, Chirila, E., Draghici, C., eds., ISBN 614-291-4, Ovidius University Press, Constanta, Romania, 12-14 September, pp. 85, 2005.
194. [Arsene, C.](#), Barnes, I., Olariu, R.I., Development of an ion chromatographic (IC) optimized method for organic sulphur compounds analysis, S04-P06, in Romanian International Conference on Chemistry and Chemical Engineering, RIVVVR XIV, Bucharest, Romania, 22-24 September, pp. 24, 2005.
195. [Arsene, C.](#), Olariu, R.I., Duncianu, M., Monitorizarea depozitelor atmosferice in Iasi, Romania, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 09-30 October, 2004.
196. Duncianu, M., Olariu, R.I., Wirtz, K., [Arsene, C.](#), Mocanu, R., Determinarea frecventelor de fotoliza ale unor specii chimice din atmosfera pe baza masuratorilor spectrale ale fluxului actinic, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 2004.
197. [Arsene, C.](#), Olariu, R.I., Barnes, I., Aerosol formation in the photo-oxidation of dimethyl sulphide at various NO₂ concentrations, in Mediul-Cercetare, Protectie si Gestiune, Environment&Progress, Cluj Napoca, Romania, pp. 21, 2004.
198. Olariu, R.I., Barnes, I., Klotz, B., Bejan, I., [Arsene, C.](#), Wirtz, K., Organic aerosol formation during the atmospheric degradation of phenols, in Mediul-Cercetare, Protectie si Gestiune, Environment&Progress, Cluj Napoca, Romania, pp. 28, 2004.
199. [Arsene, C.](#), Barnes, I., Olariu, R.I., Yields of sulphur containing products in the photo-oxidation of dimethyl sulphide at various NO₂ concentrations, Rezumate A XXVIII- a Conferinta Nationala de Chimie, ISBN 973-8488-74-5, Calimanesti-Valcea, Romania, 06-08 October, pp. 387, 2004.
200. Olariu, R.I., Duncianu, M., [Arsene, C.](#), Wirtz, K., Determination of photolysis frequencies for some aromatic aldehydes using the Euphore chamber facilities, Rezumate A XXVIII- a Conferinta Nationala de Chimie, ISBN 973-8488-74-5, Calimanesti-Valcea, Romania, 06-08 October, pp. 345, 2004.
201. [Arsene, C.](#), Formarea aerosolilor din oxidarea in faza gazoasa a unor compusi organici cu sulf, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 2003.
202. [Arsene, C.](#), Olariu, R.I., Wirtz, K., Oxidarea initata de radicalii OH a dimetil sulfurii si impactul ozonului asupra formării particulelor de aerosoli, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 2003.
203. Olariu, R.I., [Arsene, C.](#), Duncianu, M., Wirtz, K., Reviejo, M.M., EUropean PHOtoREactor – EUPHORE. Technical descriptions and facilities, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 2003.
204. [Arsene, C.](#), Mecanismul degradarii atmosferice a dimetil sulfurii in prezenta oxizilor de azot, The days of „Al.I. Cuza” University of Iasi, Iasi, 2002.

205. [Arsene, C.](#), Barnes, I., Olariu, R.I., Mocanu, R., Becker, K.H., Investigation of Particle Formation in the Photo-oxidation of Selected Organic Sulphur Compounds, A XXVII- a Conferinta Nationala de Chimie, Calimanesti-Valcea, Romania, 23-25 October, pp. 321, 2002.
206. Olariu, R.I., Barnes, I., [Arsene, C.](#), Becker, K.H., Mocanu, R., Wirtz, K., Reveijo, M.M., Studies of the Atmospheric Oxidation of Phenol in the EUPHORE Chamber, A XXVII- a Conferinta Nationala de Chimie, Calimanesti-Valcea, Romania, 23-25 October, pp. 297, 2002.
207. Onofrei, T., [Arsene, C.](#), Veleanu, M., Concentration of Pb(II) on chelating cellulose with azo and thiourea groups, XIVth National Conference on Analytical Chemistry, SCAR 98, Piatra Neamt, Romania, 24-26 September, 1998.

2 Research projects

2.1 Research projects

Coordinator / Project 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 19,371,719.82 EUR
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 200,333.33 EUR
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 241.333.34 EUR
Member				
International				
1	INFRAIA-03-2020	Integrating and Opening Research Infrastructures of European Interest ATMO-ACCESS Solutions for Sustainable Access to Atmospheric Research Facilities	2021-2024	
2	COST Action CA16109	COLOSSAL, Chemical On-Line cOMpoSition and Source Apportionment of fine aerosols	2017-2020	
3	EC-DGRI, Grant No. 730997 H2020-INFRAIA-2016-	EUROCHAMP-2020	2016-2021	

2017/H2020-INFRAIA-2016-1			
4	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
5	EVR1-CT-2001-40013 Environment and Sustainable Development	Improvements and Access to a Large Simulation Chamber (IALSI)	2002-2004
6	EVK2-CT-1999-00033 Environment and Sustainable Development	Evaluation of the Climatic Impact of Dimethyl Sulphide (EL-CID)	2000-2003
7	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 si 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 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
5	PN-III-P4-ID-PCE-2016-0807 118/2017	Investigatii 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 CNCIS - 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	Sources and physico-chemical characteristics of atmospheric aerosols at central and east European sites,	2009-2010

	304/27.04.2009	ARCEE	
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

2.2 Reviewer (selective)

Nr.	Year	Journal	Publisher
1.	2025	Chemosphere	Elsevier
2.	2024	Chemosphere	Elsevier
3.	2024	Environmental Science and Pollution Research	Springer
4.	2023	Atmospheric and Pollution Research	Elsevier
5.	2023	iScience	-
6.	2022	Atmospheric and Pollution Research	Elsevier
7.	2022	Atmosphere	MDPI
8.	2022	Chemosphere	Elsevier
9.	2022	Environmental Science and Pollution Research	Springer
10.	2022	Environmental Pollution	Elsevier
11.	2022	Water, Air and Soil Pollution	Springer
12.	2021	Environmental Science and Pollution Research	Springer
13.	2021	Environmental Pollution	Elsevier
14.	2021	Environmental Science and Technology	ACS Publications
15.	2021	Environmental Science and Technology	ACS Publications
16.	2021	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
17.	2021	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
18.	2021	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
19.	2020	Atmosphere	MPDI
20.	2020	Atmosphere	MPDI
21.	2020	Atmospheric Chemistry and Physics	Copernicus
22.	2020	Chemosphere	Elsevier
23.	2020	Environmental Development and Sustainability	Springer
24.	2020	Environmental Pollution	Elsevier
25.	2020	Environmental Science and Technology	ACS Publications
26.	2020	Environmental Science and Technology	ACS Publications
27.	2020	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
28.	2020	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
29.	2020	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
30.	2020	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
31.	2020	Environmental Science and Pollution Research (January)	Springer
32.	2019	Atmospheric Environment	Elsevier
33.	2019	Atmospheric Environment	Elsevier
34.	2019	Chemosphere	Elsevier
35.	2019	Environmental Pollution	Elsevier
36.	2019	Environmental Pollution	Elsevier
37.	2019	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
38.	2019	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
39.	2019	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
40.	2019	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
41.	2018	Environmental Pollution	Elsevier
42.	2018	Environmental Pollution	Elsevier
43.	2018	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis

44.	2018	Science of the Total Environment	Elsevier
45.	2017	Environmental Science and Technology	ACS Publications
46.	2017	Environmental Science and Pollution Research	Springer
47.	2017	Journal of Hazardous Materials	Elsevier
48.	2017	Biomarkers Medicine	Future Medicine
49.	2017	Water	MDPI
50.	2017	Applied Surface Science	Elsevier
51.	2016	Environmental Science and Pollution Research	Springer
52.	2016	Chemosphere	Elsevier
53.	2016	Environmental Science and Pollution Research	Springer
54.	2016	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
55.	2015	Chemosphere	Elsevier
56.	2015	Environmental Chemistry Letters	Springer
57.	2015	Environmental Science and Pollution Research	Springer
58.	2015	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
59.	2015	Journal of Liquid Chromatography and Related Technologies	Taylor&Francis
60.	2015	Journal of Membrane Science	Elsevier
61.	2015	Journal of Membrane Science	Elsevier
62.	2014	Environmental Science and Pollution Research	Springer
63.	2014	Water, Air and Soil Pollution	Springer
64.	2013	Chemosphere	Elsevier
65.	2013	Environmental Science and Pollution Research	Springer
66.	2013	Science of the Total Environment	Elsevier
67.	2013	Science of the Total Environment	Elsevier
68.	2013	Acta Chimica Iasi	De Gruyter
69.	2013	International Journal of Conservation Science	Index Copernicus
70.	2012	Atmospheric Environment	Elsevier
71.	2012	Chemosphere	Elsevier
72.	2012	Environmental Science and Pollution Research	Springer
73.	2012	Environmental Science and Pollution Research	Springer
74.	2012	International Journal of Environmental Analytical Chemistry	Taylor&Francis
75.	2012	Journal of Membrane Science	Elsevier
76.	2012	Malaysian Journal of Medical Science	SciVerse Scopus
77.	2011	Environmental Science and Pollution Research	Springer
78.	2011	Science of the Total Environment	Elsevier
79.	2010	Environmental Monitoring and Assessment	Springer
80.	2010	Chemosphere	Elsevier
81.	2010	CLEAN - Soil, Air, Water	Springer
82.	2010	CLEAN - Soil, Air, Water	Springer
83.	2010	Atmospheric Environment	Elsevier
84.	2009	Atmospheric Research	Elsevier
85.	2009	International Journal of Environmental Analytical Chemistry	Taylor&Francis
86.	2009	Environmental Chemistry Letters	Springer
87.	2008	Environmental Chemistry Letters	Springer
88.	2008	Atmospheric Research	Elsevier
89.	2008	Atmospheric Research	Elsevier
90.	2007	Chemosphere	Elsevier
91.	2006	Atmospheric Environment	Elsevier
92.	2004	Atmospheric Chemistry and Physics	Copernicus

Date,
February 2026