





PERSONAL INFORMATION

Cecilia ARSENE

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

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Gender Female Nationality Romanian

CURRENT POSITION

Profesor, PhD Habil.

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory

²"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region – CERNESIM, Romania

WORK EXPERIENCE

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- 08/2017 - present **Director of the Doctoral School in Chemistry**
"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry,
<http://www.chem.uaic.ro/ro/doctorat/>
Management and coordination
- 02/2015 - present **Professor, PhD Habil.**
"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Romania, <http://www.uaic.ro/>
Teaching activities (lectures, seminar, and laboratory application); Research activities; Referee of bachelor, master and PhD thesis; Coordinator of diploma thesis; Coordinator of PhD students
Analytical chemistry, Environmental chemistry
- 07/2017-08/2017 **Invited professor**
Laboratory of Excellence CaPPA - Chemical and Physical Properties of the Atmosphere, CNRS, Université Lille Sciences et technologies, IMT Lille Douai, ULCO, CNES, <http://www.labex-cappa.fr/>
Seminar; Research activities;
<http://mailchi.mp/8f860d305cbf/newsletter-labex-cappa-juillet?e=b33d2aa12d>
Kinetic studies of selected superior unsaturated alcohols ozonolysis; Gas phase chemistry
- 02/2013 – 02/2015 **Associated professor, PhD**
"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Romania, <http://www.uaic.ro/>
Teaching activities (lectures, seminar, and laboratory application); Research activities; Referee of bachelor, master and PhD thesis
Analytical chemistry, Separation techniques and chromatographic methods, Environmental chemistry
- 08/2011 - 09/2011 **Invited researcher**
The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai, 941 rue Charles Bourseul, 59508 Douai, Cedex, France
Ozonolysis product study of a series of alkenes
Atmospheric chemistry

10/2008 - present **Head of LAICA unit**

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

Head of LAICA unit by decision no. 19631/17.10.2008 emitted by the Rector of the “Alexandru Ioan Cuza” University of Iasi, Romania. Undertaken responsibilities for the implementation of the quality management system such as the laboratory to perform activities fully in agreement with the requirements of the EN ISO CEI 17025/2005 standard and other interrelated standards. LAICA’s quality management system certified by the Romanian Association for Accreditation, RENAR, by the Certificate No. LI 820/05.10.2009
Accreditation certificate No. LI 820/05.10.2009

10/2007-09/2010 **Researcher, PhD**

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

Reintegration Grant at the “Alexandru Ioan Cuza” University of Iasi, Romania, by the MERG-CT Action within the FP7 Programme (project MERG-CT-2007-203934 ICAARUS, Intensive Characterisation of Atmospheric Aerosols in the North-Eastern Romania at Various Urban Sites)

Research scientist on a subject related to the estimation of the temporal and spatial distribution in the mass concentration and chemical composition of the aerosols in the ambient air of Iasi, North Eastern Romania. Main research work focussed on field and laboratory investigations

Atmospheric chemistry

07/2005 - 07/2007 **Postdoctoral fellow**

University of Crete, Heraklion, Greece, Environmental Chemical Processes Laboratory

Postdoctoral Fellow at the 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).

Main research work focussed on field measurements (atmospheric liquid, gas and particulate phase). Development and implementation of specific methods for the quantification of tropospheric organic traces. Sources apportionment. Chemical reactivity of organic species present in the atmosphere. Multidimensional statistical analysis of experimental data

Atmospheric chemistry

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

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

Teaching activities (lectures, seminar, and laboratory application); Research activities; Referee of bachelor and master thesis

Analytical chemistry, Environmental chemistry

02/1999 -02/2003 **Assistant professor**

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

Teaching activities (lectures, seminar, and laboratory application); Research activities; Referee of bachelor and master thesis

Analytical chemistry, Environmental chemistry

03/1998 - 03/2002 **PhD Student**

Bergische Universität Gesamthochschule Wuppertal, Department of Physical Chemistry, Germany

PhD student at the Bergische Universität Gesamthochschule Wuppertal, Germany, Physical Chemistry Department. Main research work devoted to laboratory and photo-smog chamber investigation (kinetic and mechanistic investigation on the gas phase atmospheric degradation of organic chemical compounds bearing sulphur atom in their molecule).

Development of reaction mechanisms for the degradation of gas phase chemicals under photo-oxidative conditions.

Long-path spectroanalytic techniques (FTIR) used for the investigation under simulated atmospheric conditions of gaseous organic pollutants in large glass/quartz vessel reactors (1080 L quartz reactor). Use of analytical equipments for solar radiation intensity measurements. Use of monitors: CO, NO_x, O₃. Equipments for aerosol measurements (counters and scanning mobility particle sizer). Use of ion chromatography (IC) for the investigation of instable reaction intermediates (e.g. methane sulphinic acid). Laboratory work activities with students from Bergische Universität Gesamthochschule Wuppertal, Germany.

In 01/1999 promoted as assistant professor, Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Romania

Chemistry and physics of the atmosphere

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 (lectures, seminar, and laboratory application); Research activities Analytical chemistry

EDUCATION AND TRAINING

07/04/2014 Habilitation

“Alexandru Ioan Cuza” University of Iasi, Doctoral School in Chemistry, 11 Carol I, 700506 Iasi, Romania; Defence of the Habilitation Thesis “Progress in Environmental Chemistry. Laboratory and Field Interrelated Studies”. Recognition of the Habilitation degree by the MO No. 166/07.04.2014, The General Department for Higher Education, Romanian Ministry of Education and Scientific Research. Chemistry

07/2005 - 07/2007 Postdoctoral research

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

03/1998 – 03/2002 PhD studies

Bergische Universität Gesamthochschule Wuppertal, Department of Physical Chemistry, Germany; PhD title, „Doktors der Naturwissenschaften” (Dr. Rer. Nat.) emitted by the Bergische Universität Gesamthochschule Wuppertal, Germany, from December 14th 2001. Recognition of the PhD title proved by the certificate No. 2921/11.11.2002 emitted by the Romanian Ministry of Education and Scientific Research.

10/1995 - 06/1996 Master studies

“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry, Master studies in Inorganic Chemistry – Synthesis, Structure and Reactivity of Inorganic Compounds, Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry. Master certificate Serial No. B 0001927 emitted as a result of the dissertation defence undertaken in June 1996. Registered emission of certificate with the indicative 127/28.01.1998

10/1990-06/1995 Bachelor studies

“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry; Bachelor in Chemistry, Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Romania. Chemist. Bachelor certificate Serial No. N 004327, emitted as a result of the committee decision for the bachelor defence undertaken in June 1995. Registered emission of certificate with the indicative 1604/06.03.1997

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

Petru Rares High School of Mathematic and Physic, Piatra Neamt, Neamt, Romania. Baccalaureate certificate Serial No. G 47052, emitted as a result of the graduation exams undertaken in June 1989. Registered emission of certificate with the indicative 152/01.07.1989

PERSONAL SKILLS

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

- Director of Research Center with Integrated Techniques for Atmospheric Aerosol Investigation in Romania project, MySMIS 127324, Competitiveness Operational Program 2014-2020, Contract no. 322/04.09.2020, 04.09.2020 – 03.09.2023
- Head of LAICA unit (a laboratory certified by RENAR, trace metal analysis), Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iasi
- Coordinator of the Laboratory of Chemistry, Integrated Center of Environmental Science Studies in the North Eastern Region, "Alexandru Ioan Cuza" University of Iasi, 11 Carol I, Iasi, 700506, Romania (POSCCE-A2-O2.2.1-2009-4, ID 901, SMIS 13984, Contract: 257/28.09.2010, <https://www.erris.gov.ro/cernesim.uaic.ro>)
- Coordinator of the Air Quality Monitoring Station (AMOS) of CERNESIM, UAIC (site dedicated for field measurements of various atmospheric parameters: particulate matter, noxes, meteorological variables, etc.)
- Coordinator of national and international projects

Administrative skills

- Member of the ethics committee for education and research, "Alexandru Ioan Cuza" University of Iasi, Romania, 02/2014-02/2017
- Member of the scientific committee within the "Integrated Center of Environmental Science Studies in the North Eastern Region", "Alexandru Ioan Cuza" University of Iasi, Romania, 10/2014-present.
- Member of the Faculty of Chemistry Council, "Alexandru Ioan Cuza" University of Iasi, Romania, 01/2012-12/2015

Job-related skills

Responsibility, ability to work with deadlines, ability to work in a multidisciplinary and multifunctional team

Teaching skills

Lectures for students at the Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iasi, for:

- Ethics and academic integrity, Master Program (2018 – present);
- Management quality in chemical analysis. ISO Requirements (2013-2018, Master Environmental Chemistry and Food Safety, 2nd year),
- Separation methods and trace analysis (Chemistry, 3rd year, 2010-present);
- Analytical chemistry methods in forensic chemistry (2011-present, Faculty of Law, Master in Forensic, 1st year),
- Chromatographic techniques in drugs and cosmetic products analysis (2009-2012, Master Cosmetic and Pharmaceutical Products Control, 1st year),
- Sampling and methodologies in environmental investigation (2008-2009, Master Environmental Chemistry and Food Safety),
- Instrumental strategies applied in chemical system investigation (2008-2009, Master Environmental Chemistry and Food Safety),
- Environmetry/chemometry (2007-2009, Master),
- Quality control in chemical analysis (2007-2009, Chemistry, 3rd year),
- Analytical control of materials (2003-2004, Master),
- Spectroanalytic methods (2003-2004, Master),
- Sampling and strategies of environment monitoring (2002-2003, Master Environmental Chemistry, English module),
- Chemometry applied in environmental investigation (2002-2003, Master Environmental Chemistry, English module)

Seminars and laboratory work coordination for students at the Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iasi, for:

- Management quality in chemical analysis. ISO Requirements;
- Separation methods and trace analysis (proposal of laboratory practical applications);
- Chromatographic techniques in drugs and cosmetic products analysis (proposal of laboratory practical applications in collaboration);
- Analytical chemistry methods in forensic chemistry (proposal of laboratory practical applications);
- Instrumental strategies applied in chemical system investigation (proposal of laboratory practical applications);
- Sampling and strategies of environment monitoring (proposal of laboratory practical applications); Environmetry/chemometry (seminar);
- Quality control in chemical analysis (proposal of laboratory practical applications in collaboration);
- Analytical control of biotechnological processes (proposal of laboratory practical applications);
- Analytical chemistry (1st year, Chemistry area); Instrumental analysis (2nd year, Chemistry area).

Laboratory work with students from Bergische Universität Gesamthochschule Wuppertal, Germany.

Research activities coordination skills

Coordination of PhD students: 5 (1 cotutele)

Coordination of master thesis: 17

Coordination of bachelor diploma thesis: 20

- Research interest**
- Environment** (Atmospheric aerosols chemistry, Atmospheric chemistry with focus on troposphere composition and climate change due to human activities and on gas/particle interactions, Organic and inorganic pollutants present in air, water, soil, Kinetics, reactivity and mechanistic investigation of photochemically induced oxidation processes of organic compounds under the action of OH, NO₃ radicals, Cl atoms and other oxidative species (gaseous and liquid phase, Environmental analytical chemistry of persistent organic pollutants)
- Instrumental analysis techniques** (Chromatographic techniques tandem mass spectrometry (GC-MS, HPLC-MS) in the analyses of specific analytes from various natural matrices (air, water, soil, biological matrices, drugs), Microscopic and spectrophotometric techniques
- New materials for decontamination processes** (Development and characterisation of materials for solid phase in the form of stationary phases (polyoxometalates) and polymer inclusion membranes)
- Health related aspects** (Mechanistic interrelated behaviour of biochemical parameters in pulmonary infectious diseases (tuberculosis, etc); Chemical constituents of the atmosphere (aerosols, VOCs) and possible implications for the human health)
- Technical skills**
- Expertise in clearly discriminating the chemical composition of aerosols.
 - Expertise in method development/optimisation suitable for measuring traces organic species in the troposphere.
 - Expertise for field measurements of organic and inorganic pollutants with appropriate discrimination of emission sources.
 - Expertise in using in various applications (calibration, identification and separation) chromatographic techniques such as IC, GC-FID-MS, GC-FID-MS-TDS, GC-ECD, GC-GC-MS, HPLC.
 - Expertise in using in situ long path spectroscopic techniques (FT-IR) for the determination and quantification of gaseous chemical pollutants in reaction chambers suitable for the simulation of the atmosphere.
 - Expertise in use of spectrophotometric techniques (UV-vis), atomic absorption spectroscopic techniques (ContrAA 700 with flame and graphite furnace) for the characterisation of various matrices.
 - Expertise in using instruments for aerosol characterisation such as scanning mobility particle sizer analyser and thermo-optical analyser for OC-EC discrimination.
 - Extensive experience in operating large volume quartz indoor photoreactors. Operation of the large volume Teflon outdoor European Photoreactor (EUPHORE, Spain) and quartz reactors up to 1000 L.
 - Experience in handling analytical equipment for the measurement of solar radiation, SO₂, CO, NO_x and O₃.
- Computer skills**
- Advanced user of PC software (Windows, MS Word, MS Excel, Sigma Plot, Chem-Draw, Microsoft Power Point, etc).
 - Experienced user of Software for a wide range of analytical instruments: FTIR (OPUS, OMNIC), UV-VIS (SPECTRAL 1.70) and GC systems (Agilent, Hewlett-Packard, Fisons, Chromeleon, NIST Data Base).
 - Extensive experience in statistical analysis of large data base.
- Certificated abilities/competences**
- 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
Other skills	Mind flexibility/versatility, Honesty
Driving licence	-

ADDITIONAL INFORMATION

Publications	58 in peer-reviewed journals with ISI factor (web of science) 22 in non peer-reviewed journals 6 books and 3 monographs
Presentations	21 conferences/plenary lectures/oral talks/seminars
Conferences	222 scientific contributions, conferences, oral talk, posters (62 abroad and 160 organised in Romania, 212 with abstracts and 10 with proceedings)
Projects	5 international projects (project director) 3 national projects (project director) 7 international projects (member) 14 national project (member)
Scientific recognition	<p>International recognition</p> <p>Referee of scientific articles in more than 20 international journals (Atmospheric Chemistry and Physics, Atmospheric Environment, Chemosphere, Atmospheric Research, Journal of Environmental Analytical Chemistry, Environmental Chemistry Letters, Journal of Liquid Chromatography&Related Technologies, etc), for more than 80 scientific articles https://apps.webofknowledge.com/CitationReport.do?product=WOS&search_mode=CitationReport&SID=E2E4D9b1pqqoDoOv3qN&page=1&cr_pqid=1&viewType=summary&colName=WOS</p> <p>Scientific recognition</p> <p>Member in the Editorial Board Journal of Liquid Chromatography&Related Technologies https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=ijlc20</p> <p>Editor for 3 specially edited numbers in Acta Chemica Iasi</p> <p>Referee/expert in the evaluation process of project proposals submitted within</p> <p>PN-III-P2-2.1-PTE-2021 (peer review activity in 2021) PN-III-P1-1.2-PCCDI-2017 (peer review activity in 2017) PE-PN-III-P1-1.1-TE-2016 (peer review activity in 2017) PE-PN-III-P1-1.1-PD-2016 (peer review activity in 2017) Nucleu Core Program (peer review activity in 2016) PN-II-RU-TE-2011-3 Action (peer review activity in 2014) PN-II-PT-PCCA-2013-4 Action (peer review activity in 2013)</p> <p>Evaluator/Examination of PhD thesis in other Universities</p> <p>Gheorghe Asachi Technical University Grigore T. Popa University</p> <p>Evaluator/Examination of Habilitations</p> <p>Petru Poni Institute of Macromolecular Chemistry</p> <p>Member in the scientific or organisation committee for several national and international conferences</p> <p>Faculty of Chemistry Conference, Iasi, Romania (2012-2020) The Scientific Session of Undergraduate, Master and PhD Students (2014-2020) National Conference of the Doctoral Schools from Universitaria Consortium, 2018 International Congress on Chemistry and Materials Science (ANCON), Ankara, Turkey (2017) 1st SCIENVIR International Conference, Scientific Convergence and Interdisciplinarity in EU Environmental Research, Iasi, Romania, (2017) National Conference on Forensics, Iasi, Romania (2016-2017) Medical Physics Conference, Birmingham, UK (2015) 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</p>

Prof. Cecilia ARSENE, PhD, Habil





Lista cu realizările în planul activității profesionale și manageriale

Prof. univ. dr. habil. Cecilia ARSENE

Teza de doctorat

Atmospheric degradation mechanism of organic sulphur compounds, coordinator Prof. Dr. Karl-Heinz, Becker, decembrie 2001.

Cărți

1. [Cecilia Arsene](#), Romeo Iulian Olariu, Metode analitico-statistice în investigarea sistemelor chimice, ISBN: 978-973-730-606-7, PERFORMANTICA, Iași, 2009.
2. [Cecilia Arsene](#), Romeo Iulian Olariu, Understanding atmospheric chemistry of hydrocarbons. An introductory approach, ISBN: 978-973-702-657-6, TEHNOPRESS, Iași, 2009.
3. [Cecilia Arsene](#), Romeo Iulian Olariu, Sulful în atmosferă, ISBN: 973-8188-87-3, Editura Tehnica, Științifică și Didactică CERMI, Iași, 2003.
4. Romeo Iulian Olariu, [Cecilia Arsene](#), Degradarea atmosferică a hidrocarburilor aromatice, ISBN 973-8490-25-1, Ed. PIM, Iași, 2002.

Capitole de cărți

1. [Arsene, C.*](#), Bougiatioti, A., Mihalopoulos, N., Non-methane hydrocarbons variability in the Eastern Mediterranean, pp. 197-206, in Regional Climate Variability and its Impacts in the Mediterranean Area, Mellouki, A., Ravishankara, A.R., eds, NATO Science Series, IV. Earth and Environmental Sciences, 79, 197-206, 2007.
2. [Arsene, C.*](#), Mihalopoulos, N., Olariu, R.I., Atmospheric wet deposition monitoring in Iași, 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.
3. 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.

Lucrări ISI

1. 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>
2. 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>
3. 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>
4. Amarandei, C., Negru, A.G., Soroaga, L.V., Cucu-Man, S.M., Olariu, R.I., [Arsene, C.*](#), Assessment of surface water 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>
5. 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>
6. 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; doi:10.3390/atmos11030256, 2020.



7. Galon-Negru, A.G., Olariu, R.I., [Arsene C.*](#), Size-resolved measurements of PM_{2.5} water-soluble elements in Iasi, north-eastern Romania: Seasonality, source apportionment and potential implications for human health, *Science of the Total Environment*, 695, 133839, 2019.
8. 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.
9. 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 Slovaca*, 66, 326-336, 2019.
10. Negru-Galon A.G., Olariu, R.I., [Arsene C.*](#), Chemical characteristics of size-resolved atmospheric aerosols in Iasi, north-eastern Romania: nitrogen-containing inorganic compounds control aerosol chemistry in the area, *Atmospheric Chemistry and Physics*, 18, 5879-5904, 2018.
11. 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.
12. Marin, S.L., Mardare(Balulescu), 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.
13. Potoinca, 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. [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.
22. 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.
23. [Arsene, C.*](#), Olariu, R.I., Zarpas, 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.
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Prezentări orale

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2. [Arsene C.*](#) (online talk), CHimia în Elita științelor aplicate în descoperirea Minunilor lumii și a Adevărului despre viață - Răspunsul ideal pentru Educație (CHEMARE), Cursuri online pentru studenți, Universitatea “Alexandru Ioan Cuza” din Iași, 23 Martie 2020. <https://www.uaic.ro/cursuri-deschise/>
3. [Arsene, C.*](#) (online talk), The importance of the laboratory quality management system in the academic curricula in developing appropriate student competences for our current societal needs, Virtual Scientific Workshop, Eurachem 2020, Quality Assurance for Analytical Laboratories in the University Curriculum, 15-15 July, 2020.
4. Galon-Negru, A.G., Amarandei, C., Olariu, R.I., [Arsene, C.*](#), Source apportionment of PM_{2.5} mass concentrations in Iasi urban area, north-eastern Romania, European Aerosol Conference, 25-30 August 2019, Gothenburg, Sweden, oral communication, Source Apportionment Section, Program, pp. 22, O1-F5-A, 2019.
5. [Arsene, C.*](#), Olariu, R.I., Measurements in Iasi, Romania, COST Action CA16109 Working Group 1 Meeting, 05-06 March 2019, London, United Kingdom, oral talk, 06 March 2019.
6. [Arsene, C.*](#), Olariu, R.I., (Conference), AI-FORECAST project (PN-III-P4-ID-PCE-2016-0299) between prediction of the aerosol chemical composition and integration of Cernesim’s infrastructure in a European context, The XXXV-th Romanian Chemistry Conference, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, pp. 5, 02 – 05 October, 2018.
7. [Arsene, C.](#) (Invited talk), Challenges and achievements in analytical chemistry laboratories. Tropene alkaloids as plant-derived pharmaceuticals or ethnobotanical ingredients, 4th French-Romanian Colloquium in Medicinal Chemistry, 05-07 October, 2017.
8. [Arsene, C.](#) (Invited talk), Air quality MONitoring Station - AMOS (CERNESIM-UAIC) the place where aerosols are measured also..., COLOSSAL COST Action CA16109, Chemical On-Line cOmpoSition and Source Apportionment of fine aerosols, Barcelona, Spain, 26-28 September, 2017.
9. [Arsene, C.](#) (Invited talk), Gas-phase kinetic study of OH radical reactions with selected saturated ketones, 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE 2017, 06-09 September 2017, Poiana Brasov, Romania, S3-209, 2017.
10. [Arsene, C.](#) (Seminar), North-eastern Romanian trademark achievements in the atmospheric chemistry field. State-of-the-art- and challenges, Seminar, Chemical and physical Properties of the Atmosphere, CaPPA, SAGE Douai, 13 July 2017.
11. [Arsene, C.](#) (Invited talk), Chemistry, the driving force of our every day’s life....from fun and danger to scientific challenges, SCIENVIR 2017 International Conference Programme, 15-18 June, 2017.
12. [Arsene, C.](#) (Seminar), METHodologies in Environmentally focused socioeconomic Research (METER), SCIENVIR 2017 International Conference Programme, 15-18 June, 2017.
13. [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.
14. [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.



15. [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.
16. [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.
17. [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.
18. [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.
19. [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.
20. [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.
21. [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.
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Participări la conferințe Internaționale

1. 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, XXIth SGEM GeoConference - “Green Sciences for Green Life”, 7th – 10th of December, **2021**.
2. 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, XXIth SGEM GeoConference - “Green Sciences for Green Life”, 7th – 10th of December, **2021**.
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Proiecte de cercetare

Coordinator (director)

International

1	FP7/PEOPLE-MERG-CT-2007 203934	Intensive Characterisation of Atmospheric Aerosols in the north-eastern Romania at various Urban Sites (ICAARUS)	2007-2010	45000 EUR
2	NATO ESP.EAP.CLG.98258/2007	Chemical Composition of Atmospheric Aerosols in the North-Eastern Romania	2007-2009	20000 EUR
3	Bilateral Romania-Italy C18002/09.01.2006	Environmental Quality Understanding Inferred by Laboratory Investigation of the Borne Pollutants Released by Industrial and Agricultural Activities in a Small Part of Romania (EQUILIBRIAAS-PRO)	2006-2008	15000 EUR
4	Bilateral Romania-Greece C18873/28.12.2005	Chemical Composition of Aerosols in an Urban Atmosphere (CCAUA)	2006-2007	12000 EUR
5	Marie-Curie FP-6/MEIF-CT-2005-009578	Evaluation of the Climatic Impact of the Tropospheric Aerosols in the Mediterranean Area (ECITAMA)	2005-2007	136834 EUR

National



1	POC 2014-2020	Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici, Contract nr. 322/04.09.2020, MySMIS 127324	2020-2023	89.570.958,10 lei
2	PN-III-P4-ID-PCE-2016-0299 37/2017 UEFISCDI, Romania	Assessing the Anthropogenic and Biogenic Emissions Impact on Atmospheric Urban Fine Organic Particles in Eastern Romania. Solving the Challenge of the Aerosols Missing Mass as a One Step Forward Tool (AI-FORECAST)	2017-2019	850000 RON
3	PN-II-ID-PCE-2011-3-0471 UEFISCDI, Romania	Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania (EVOLUTION-AIR)	2011-2016	1050000 RON
Member				
International				
1	INFRAIA-03-2020	Integrating and Opening Research Infrastructures of European Interest ATMO-ACCESS Solutions for Sustainable Access to Atmospheric Research Facilities		2021-2024
	COST Action CA16109	COLOSSAL, Chemical On-Line cOmpoSition and Source Apportionment of fine aerosols		2017-2020
2	EC-DGRI, Grant No. 730997 H2020-INFRAIA-2016-2017/H2020-INFRAIA-2016-1	EUROCHAMP-2020		2016-2021
3	PN-III-P3-3.1-PM-RO-FR-2016-0047 Bilateral Romania-France, BRANCUSI 90BM/2017	Ozonolysis of oxygenated unsaturated compounds of biogenic origin in the atmosphere: from kinetics to secondary organic aerosol formation (OzOA)		2017-2018
4	EVR1-CT-2001-40013 Environment and Sustainable Development	Improvements and Access to a Large Simulation Chamber (IALSI)		2002-2004
5	EVK2-CT-1999-00033 Environment and Sustainable Development	Evaluation of the Climatic Impact of Dimethyl Sulphide (EL-CID)		2000-2003
6	ENV4-CT97-0410 Environment and Sustainable Development	Dimethyl Sulphide (DMS): Oxidation Mechanism in Relation to Aerosols and Climate (DOMAC)		1998-1999
7	Projekt No.: 07 AF 22 GSF-Forschungszentrum für Umwelt und Gesundheit, Projektträger des BMBF für Umwelt und Klimaforschung, Germany	Yields of Aerosol Precursors Substances Formed by DMS-Oxidation as a Function of Atmospheric Conditions		1998-2001
National				
1	POCU/380/6/13/ – Sprijin pentru doctoranzi 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		10.2018-



		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)	11.2020
3	CNFIS-FDI-2018-0102	Cercetare de Excelență în România 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 CNCSIS - Romania	Integrated research centre for environmental sciences investigation in the north-eastern region/CERNESIM	2010-2014
11	POSDRU/86/1.2/S/62307 E6677/18.08.2010	Promoting the criminality scientific research in juridical activities	2010-2013
12	Bilateral Romania-Austria Module III 304/27.04.2009	Sources and physico-chemical characteristics of atmospheric aerosols at central and east European sites, ARCEE	2009-2010
13	PN II/405/2007-2010 MCT-Romania	Research on the retention of selected environmental radionuclides on heteropolioxometalates sorbents for subsequent ion chromatographic analysis	2007-2010
14	INFRAS: 210/2.11.2004 MCT-Romania	Development of the infrastructure for the monitoring and biomonitoring of environmental toxic compounds with the assessment of their toxic effect on living organisms. Certification of a laboratory for the analysis of heavy metals and of selected persistent organic pollutants (POPs)	2004-2007

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