



PERSONAL INFORMATION



Cecilia ARSENE

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Sex Female Date of birth 22/11/1970 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; Atmospheric 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, 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 sulphonic 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 Rareș High School of Mathematic and Physics, 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

Head of LAICA unit (a laboratory certified by RENAR, trace metal analysis), Faculty of Chemistry, “Alexandru Ioan Cuza” University of Iasi

Responsible 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 ethic 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: Management quality in chemical analysis. ISO Requirements (2013-present, 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: 3 (1 cotutelle)
Coordination of master thesis: 13
Coordination of diploma thesis: 15
- Research interest** **Environment** (Atmospheric aerosols chemistry, Environmental analytical 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)
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 extraction 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

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ADDITIONAL INFORMATION

Publications

47 in peer-reviewed journals
 17 in non peer-reviewed journals
 6 books and 3 monographs

Presentations

16 invited conferences/plenary

Conferences

52 international scientific conferences attendances
 48 national scientific conferences attendances
 164 scientific contributions, oral talk, conferences, posters (154 with abstract and 10 with proceeding)

Projects

5 international projects (project director)
 2 national project (project director)
 7 international projects (member)
 11 national project (member)

Scientific recognition

International recognition

Referee for 16 international scientific journals (Atmospheric Chemistry and Physics, Atmospheric Environment, Chemosphere, Atmospheric Research, Journal of Environmental Analytical Chemistry, Environmental Chemistry Letters, etc) for 45 scientific articles
 ~900 citations (~750 citations with „self citation of all authors excluded" options activated)
 12 Hirsch factor (with „self citation of all authors excluded" options activated)

Scientific recognition

Editor for 3 specially edited numbers in Acta Chemica Iasi
Referee/expert in the evaluation process of project proposals submitted within
 PN-III-P1-1.2-PCCDI-2017 (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)
Member in the scientific or organisation committee for several national and international conferences
 International Congress on Chemistry and Materials Science (ANCON), Ankara, Turkey (2017)
 Faculty of Chemistry Conference, Iasi, Romania (2012-2017)
 National Conference on Forensics, Iasi, Romania (2016-2017)
 Medical Physics Conference, Birmingham, UK (2015)

Awards

Bougiatoti, 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

ANNEXES

Annex 01

List of publications and scientific contributions

Prof. Cecilia ARSENE, PhD. Habil.

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1 Publication list (* - corresponding author)

1.1 Publications in peer reviewed journals

1. Potolincă, D., Negru, I.C., Vasilache, V., [Arsene, C.](#), Paduraru, M., Sandu, I., Forensic expertise of the paper support of counterfeit documents, *Materiale Plastice*, 54, 186-189, 2017.
2. 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.
3. 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.
4. 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.
5. 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.
6. [Arsene, C.*](#), Chemical composition of aerosols, a fragile barrier between healing and wounding, *Journal of Nuclear Medicine and Radiation Therapy*, 6:4, 2015.
7. 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.
8. 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.
9. 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.
10. [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.
11. 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.
12. [Arsene, C.*](#), Olariu, R.I., Zampas, 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. Olariu, R.I., [Arsene, C.](#), Humelnicu, D., Duncianu, M., Mantu, D., Investigation on environmental radionuclide retention on heteropolioxo-metallic sorbents for radionuclide analysis by ionic chromatography, *International Journal of Conservation Science*, 1, 248, 2010.
18. 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.
19. Humelnicu, D., [Arsene, C.](#), Burghelă, B., Bertescu, M., Humelnicu, I., Sandu, I., Mantu, D., Olariu, R.I., Interaction of actinide cations with heteropolytungstate ions [SiW₁₁O₃₉]⁸⁻ and [SiW₁₂O₄₀]⁴⁻, *Revista de Chimie*, 61, 841-844, 2010.
20. [Arsene, C.*](#), Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, *Global NEST Journal*, 11, 333-340, 2009.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. Drochioiu, G., [Arsene, C.](#), Murariu, M., Oniscu, C., Analysis of cyanogens with resorcinol and picrate, *Food and Chemical Toxicology*, 46, 3540-3545, 2008.

31. 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.
32. 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.
33. [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.
34. [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.
35. 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.
36. 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.
37. [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.
38. 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.
39. [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.
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1.2 Publications in non-peer reviewed journals (* - corresponding author)

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1.3 Books/Monographs

1.3.1 Books

1. [Cecilia Arsene](#), Romeo Iulian Olariu, Cercetarea criminalistica a microumelor, ISBN: 978-606-8363-09-7×1, AIT Laboratories, 2011.
2. [Cecilia Arsene](#), Romeo Iulian Olariu, Metode analitico-statistice in investigarea sistemelor chimice, ISBN: 978-973-730-606-7, PERFORMANTICA, Iasi, 2009.
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4. [Cecilia Arsene](#), Romeo Iulian Olariu, Sulful in atmosfera, ISBN: 973-8188-87-3, Editura Tehnica, Stiintifica si Didactica CERMI, Iasi, 2003.
5. Romeo Iulian Olariu, [Cecilia Arsene](#), Degradarea atmosferica a hidrocarburilor aromatice, ISBN 973-8490-25-1, Ed. PIM, Iasi, 2002.
6. [Cecilia Arsene](#), Thorsten Benter, Atmospheric degradation mechanism of organic sulphur compounds, ISSN 1436-2198, Bericht Nr. 57, 2002.

1.3.2 Monographs

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.
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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.

1.4 Participation in international conferences and workshops

1.4.1 Invited talks

1. [Arsene, C.](#) (Invited talk), Challenges and achievements in analytical chemistry laboratories. Tropane alkaloids as plant-derived pharmaceuticals or ethnobotanical ingredients, 4th French-Romanian Coloquim in Medicinal Chemistry, 05-07 October, 2017.
2. [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.
3. [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.
4. [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.
5. [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.
6. [Arsene, C.](#) (Seminar), METHodologies in Environmentally focused socioeconomic Research (METER), SCIENVIR 2017 International Conference Programme, 15-18 June, 2017.
7. [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.
8. [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.
9. [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.
10. [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.

11. [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.
12. [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.
13. [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.
14. [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.
15. [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.
16. [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 Contributed talks and posters (abstracts and conference proceedings)

1. 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.
2. 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.
3. 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.
4. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), Challenges and achievements in analytical chemistry laboratories. Tropae alkaloids as plant-derived pharmaceuticals or ethnobotanical ingredients, 4th French-Romanian Colloquium in Medicinal Chemistry, 05-07 October, 2017.
5. [Arsene, C.](#), Olariu, R.I., Bejan, I., Negru(Galon), A.G., Mardare(Balusescu), G., Amarandei, C., Air quality MONitoring Station - AMOS (CERNESIM-UAIC) the place where aerosols are measured also..., COLOSSAL, Chemical On-Line cOmpoSition and Source Apportionment of fine aerosols, Barcelona, Spain, 26-28 September, 2017.
6. 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.
7. 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.
8. 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.
9. [Arsene, C.*](#), 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.
10. 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.
11. 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.
12. Roman, R., [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.
13. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), Accumulation of selected tocopherols in Datura innoxia structural constituents, The 8th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 30 June, pp. 14, 2017.
14. 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.
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16. Bejan, I., Olariu, R. I., [Arsene, C.](#), Wenger, J.C., Barnes, 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.
17. [Arsene, C.*](#), Olariu, R.I., Chemistry, the driving force of our every day's life...from fun and danger to scientific challenges, SCIENVIR 2017 International Conference Programme, Iasi, Romania, 15-18 June, 2017.
18. Olariu, R.I., [Arsene, C.](#), Bejan, I.G., The role of environmental simulation chambers to the study of atmospheric pollutants evolution, SCIENVIR 2017 International Conference Programme, Iasi, Romania, 15-18 June, 2017.
19. Olariu, R.I., [Arsene, C.](#), Seminar: METHodologies in Environmentally focused socioeconomic Research (METER), SCIENVIR 2017 International Conference Programme, Iasi, Romania, 15-18 June, 2017.
20. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.*](#), Datura innoxia, planta medicinala sau ingredient etnobotanic?, Conferinta de Criminalistica, 01-02- April 2017, Iasi, Romania, 2017.
21. [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.

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23. 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.
24. Roman, C., Bejan, I., [Arsene, C.](#), Olariu, R.I., Gas phase infrared absorption cross sections for a series of aromatic compounds in the ESCQ-UAIC chamber, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 27 - 29 October, 2016.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
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35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
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2 Research experience

2.1 Research activities

Environment

- ✓ Atmospheric aerosols chemistry
- ✓ Environmental analytical chemistry
- ✓ 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)

Chromatography and other instrumental techniques

- ✓ Chromatographic techniques tandem mass spectrometry (GC-MS, HPLC-MS), 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 extraction 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

Scientist in charge for the AMOS station (Air Quality Monitoring Station of CERNESIM, UAIC), a sampling site where part of CERNESIM's equipments are running to generate a reliable data record of environmental parameters.

2.2 Research projects (coordinator, member)

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	PN-III-P4-ID-PCE-2016-0299 UEFISCDI, Romania	Assessing the Anthropogenic and Biogenic Emissions Impact on Atmospheric Urban Fine Organic Particles in Eastern Romania. Solving the Challenge of the Aerosols Missing Mass as a One Step Forward Tool (AI-FORECAST)	2017-2019	850000 RON
2	PN-II-ID-PCE-2011-3-0471 UEFISCDI, Romania	Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania (EVOLUTION-AIR)	2011-2016	1050000 RON
Member				
International				
1	COST Action CA16109	COLOSSAL, Chemical On-Line cOmpoSition and Source Apportionment of fine aerosols	2017-2020	
	EC-DGRI, Grant No. 730997 H2020-INFRAIA-2016-2017/H2020- INFRAIA-2016-1	EUROCHAMP-2020	2016-2020	
2	PN-III-P3-3.1-PM-RO-FR-2016-0047 Bilateral Romania-France, BRANCUSI	Ozonolysis of oxygenated unsaturated compounds of biogenic origin in the atmosphere: from kinetics to secondary organic aerosol formation (OzOA)	2017-2018	
3	EVR1-CT-2001-40013 Environment and Sustainable Development	Improvements and Access to a Large Simulation Chamber (IALSI)	2002-2004	
4	EVK2-CT-1999-00033 Environment and Sustainable Development	Evaluation of the Climatic Impact of Dimethyl Sulphide (EL-CID)	2000-2003	
5	ENV4-CT97-0410 Environment and Sustainable Development	Dimethyl Sulphide (DMS): Oxidation Mechanism in Relation to Aerosols and Climate (DOMAC)	1998-1999	
6	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	PN-III-P4-ID-PCE-2016-0270	Ozonoliza ca sursă de formare a aerosolilor organici secundari. Investigatii de laborator într-o cameră de simulare a atmosferei	2017-2019	
2	PN-III-P4-ID-PCE-2016-0807	Investigatii asupra chimiei atmosferice a hidrocarburilor oxigenate ciclice (IGAC-CYCLO)	2017-2019	
3	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	
4	PN-III-P2-2.1.-PED-2016 86PED/2017	Atmospheric Simulation Chamber-New Research Facility to Understand Sesquiterpene Oxidation (CHARUSO)	2017-2018	
5	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	
6	ERA-MIN/0005/2014 25/2015 UEFISCDI-Romania	ENVironmentally friendly and efficient methods for extraction of Rare Elements from secondary sources (ENVIREE)	2016-2017	

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7	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
8	POSDRU/86/1.2/S/62307 E6677/18.08.2010	Promoting the criminality scientific research in juridical activities	2010-2013
9	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
10	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
11	INFRAS: 210/2.11.2004 MCT-Romania	Development of the infrastructure for the monitoring and biomonitoring of environmental toxic compounds with the assessment of their toxic effect on living organisms. Certification of a laboratory for the analysis of heavy metals and of selected persistent organic pollutants (POPs)	2004-2007

2.3 Reviewer and expert activities

Reviewer for articles published in ISI quoted journals (peer review process)

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

✓ Reviewer/Expert in the evaluation process of project proposal submitted under:

PN-III-P1-1.2-PCCDI-2017 (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)

✓ Evaluator/Examination of PhD thesis

Member in the scientific or organisation committee for several national and international conferences

International Congress on Chemistry and Materials Science (ANCON), Ankara, Turkey (2017)

Faculty of Chemistry Conference, Iasi, Romania (2012-2017)

National Conference on Forensics, Iasi, Romania (2016-2017)

Medical Physics Conference, Birmingham, UK (2015)