

Curriculum Vitae

CECILIA ARSENE



Current affiliation ¹“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry
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Personal information

Nationality: Romanian
Place and date of birth: November 22, 1970, Stefan cel Mare-Neamt, Romania
Gender: female
Marital status: married

Education/training

Habilitation: 14/02/2014 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

PhD studies: 03/1998-03/2002
PhD in Atmospheric Chemistry, Research subject: Atmospheric Degradation
Mechanisms of Organic Sulphur Compounds, Department of Physical Chemistry,
Bergische Universität Gesamthochschule Wuppertal, Germany, coordinator Prof.
Dr. Karl-Heinz Becker. PhD title, „Doktors der Naturwissenschaften” (Dr. Rer.
Nat.) emitted by 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.

Master studies: 10/1995-06/1996
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.

Bachelor studies: 10/1990-06/1995
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.

Baccalaureate: 09/1985-06/1989
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.

Work experience

- 02/2015-present: Professor, PhD, Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory. Teaching and research activities.
- 02/2013-02/2015: Associated professor, PhD, Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory. Teaching and research activities.
- 08/2011-09/2011: Hired as Researcher Director (i.e., Article 4 from Convention De Partenariat between A.I. Cuza University of Iasi, 11 Carol I, Iasi, Romania and The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai, 941 rue Charles Bourseul, 59508 Douai, Cedex, France); Article 3 Convention De Partenariat: Ozonolysis experiments in a flow tube and analyse the gaseous products (Ozonolysis product study of a series of alkenes).
- 10/2008-present: Head of the unit Laboratory of Instrumental Analysis and Analytical Chemistry (LAICA). 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 unit has proved the fulfilment of the requirements from afore mentioned standard and recognition of this fact was given by the Romanian Association for Accreditation, RENAR, by the Certificate No. LI 820/05.10.2009.
- 10/2007-09/2010: 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 (sampling and complete chemical characterisation of atmospheric aerosols in the submicrometric range).
- 07/2005-07/2007: 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.
- 02/2003-02/2013: University Lecturer, PhD, Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory. Teaching and research activities.
- 04/2002-02/2003: Assistant professor, PhD, Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory. Teaching and research activities.
- 03/1998-03/2002: PhD student at 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.

- 10/1996-02/1998: Assistant, Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory. Teaching and research activities.
- 10/1995-06/1996: Master student – coordinator of practical work for the first year students, Analytical Chemistry Laboratory, Faculty of Chemistry, Alexandru Ioan Cuza University of Iasi.

International/national research projects

Coordinator (director) of international projects

- 1) FP7/PEOPLE-MERG-CT-2007-203934. 2007-2010. Intensive Characterisation of Atmospheric Aerosols in the north-eastern Romania at various Urban Sites (ICAARUS). Environment and Sustainable Development. Global Change, Climate and Biodiversity. 45000,00 EUR
- 2) NATO ESP.EAP.CLG.98258/2007. 2007-2009. Chemical Composition of Atmospheric Aerosols in the North-Eastern Romania. EST Action. 20000,00 EUR
- 3) Bilateral Romania-Italy: C18002/09.01.2006. 2006-2008. 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). 15000,00 EUR from the Resort Romanian and Italian Ministeria
- 4) Bilateral Romania-Greece: C18873/28.12.2005. 2006-2007. Chemical Composition of Aerosols in an Urban Atmosphere (CCAUA). 12000,00 EUR from the Resort Greek Minister
- 5) Marie-Curie: FP-6/MEIF-CT-2005-009578. 2005-2007. Evaluation of the Climatic Impact of the Tropospheric Aerosols in the Mediterranean Area (ECITAMA). Environment and Sustainable Development. Global Change, Climate and Biodeversity. 136834,50 EUR

Coordinator (director) of national projects

- 1) PN-II-ID-PCE-2011-3-0471, 2011-2014, Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania (EVOLUTION-AIR), UEFISCDI - ROMANIA. 1050000 RON (241000,00 EUR)

Member of international projects

- 1) EVR1-CT-2001-40013. 2002-2004. Improvements and Access to a Large Simulation Chamber (IALSI). Environment and Sustainable Development. Global Change, Climate and Biodiversity.
- 2) EVK2-CT-1999-00033. 2000-2003. Evaluation of the Climatic Impact of Dimethyl Sulphide (ELCID). Environment and Sustainable Development. Global Change, Climate and Biodiversity
- 3) ENV4-CT97-0410. 1998-1999. Dimethyl Sulphide (DMS): Oxidation Mechanism in Relation to Aerosols and Climate (DOMAC). Environment and Sustainable Development. Global Change, Climate and Biodiversity
- 4) Projekt No.: 07 AF 22. 1998-2001. Yields of Aerosol Precursors Substances Formed by DMS-Oxidation as a Function of Atmospheric Conditions, GSF-Forschungszentrum für Umwelt und Gesundheit, Projektträger des BMBF für Umwelt und Klimaforschung, Germany

Member in projects with national and/or European funding

- 1) PN-II-RU-TE-2014-4-2461. 305/01.10.2015. 2015-2017. Studies on Substituted Aromatic Compounds under Simulated Atmospheric Conditions (SOS-AROMATIC). MENCS-UEFISCDI-ROMANIA
- 2) ERA-MIN/0005/2014. 2016-2017. Contrqact no.: 25/2015. ENVIronmentally friendly and efficient methods for extraction of Rare Elements from secondary sources (ENVIREE). MENCS-UEFISCDI-ROMANIA
- 3) POSCCE-A2-O2.2.1-2009-4, ID 901, SMIS 13984, Contract no.: 257/28.09.2010; Subject: Integrated research centre for environmental sciences investigation in the north-eastern region/CERNESIM. CNCSIS - ROMANIA
- 4) POSDRU/86/1.2/S/62307; Promoting the criminality scientific research in juridical activities; Contract no. E6677/18.08.2010
- 5) PN II/405/2007-2010. Research on the retention of selected environmental radionuclides on heteropolioxometalates sorbents for subsequent ion chromatographic analysis. MCT-ROMANIA
- 6) INFRAS: 210/2.11.2004. 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 persistant organic pollutants (POPs). MCT-ROMANIA

Awards

Arsene, C., Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, Protection and Restoration of the Environment IX (Pre-IX), Kefalonia, Greece, **2008**. BEST POSTER AWARD

Research interest

Environment

1. Atmospheric aerosols chemistry
2. Organic and inorganic pollutants present in air, water, soil
3. 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

1. Chromatographic techniques tandem mass spectrometry (GC-MS, HPLC-MS) for the identification and quantification of specific analytes from various natural matrices (air, water, soil, biological matrices)
2. Microscopic and spectrophotometric techniques

New materials for decontamination processes

1. Development and characterisation of materials for solid phase extraction in the form of stationary phases (polyoxometalates) and polymer inclusion membranes

Health related aspects

1. Mechanistic interrelated behaviour of biochemical parameters in pulmonary infectious diseases (tuberculosis, etc)
2. Chemical constituents of the atmosphere (aerosols, VOCs,) and possible implications for the human health

Significant results (see Annex 01)

<http://www.scopus.com/>

- Publications in ISI quoted journals (peer reviewed process): **45**
- Other publications: **33**
- Contributions at **46** international conferences and **95** national conferences (conferences/oral presentations/poster)
- Books: **6**
- Citations in ISI quoted journals: **661** (self-citation of all authors excluded)
- Hirsch Factor: **11** (self-citation excluded)

Invited speaker in international workshops/conferences/other actions

- 1) Arsene, C., Chemical composition of aerosols, a fragile barrier between healing and wounding, keynote within the International Conference on Medical Physics, August 03-05, **2015**. Session chair
- 2) Arsene, C., 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**.
- 3) Arsene, C., Atmospheric aerosols in the north-eastern Romania, The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai, 02 September **2011**.
- 4) Arsene, C., Olariu, R.I., Duncianu, M., Chemical composition of tropospheric aerosols in Iasi, north-eastern Romania, 31st National Conference of Chemistry, Valcea, Romania, 05-07 Octombrie **2010**.
- 5) Arsene, C., 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**.
- 6) Arsene, C., Olariu, R.I., Mihalopoulos, N., 2nd International Conference on Environmental Research and Assessment, Organic acidity in a wet precipitation study in the northeastern Romania, Romanian Academy, Bucharest, 05 - 08 October, **2006**.

Certificated abilities

- 1) Certificate with registered no. TRRO AK-32-2010 emitted by TUV Rheinland Romania. Certificate acknowledging completing and undertaking the examination in Bucharest on 19.02.2010 for the course „Assistant for testing and calibration laboratories”, (32 hours), according to the national standard SR EN ISO/CEI 17025:2005 identical with the European Standard EN ISO/IEC 17025:2005. The examination was organised on the basis of the examination requirements of Academia TUV Rheinland Romania.
- 2) Certificate with registered no. TAR AK-58-2010 emitted by TUV Austria Romania. Certificate acknowledging completing and undertaking the examination on 12.02.2010 for the course „Internal auditor for testing and calibration laboratories in agreement with the requirements of the ISO 17025:2005 and ISO 19011:2002 standards”.

Technical skills and competences

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. Experienced user of Software for a wide range of analytical instruments. Extensive experience in statistical analysis of large data base.

Other skills and competences

Social skills and competences

Coordinator of bachelor and master thesis

Lecturing

Coordinator/co-worker of PhD students research activities

Honesty, responsibility, ability to work with deadlines, ability to work in a multidisciplinary and multifunctional team.

Organisational skills and competences

Since 2008 head of LAICA unit (a laboratory certified by RENAR, trace metal analysis).

Member in the organising committee of the Faculty of Chemistry Conference, Conference on Forensics.

Scientific skills and competences

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

PN-II-PT-PCCA-2013-4 Action (peer review activity in 2013)

PN-II-RU-TE-2011-3 Action (peer review activity in 2014)

“Nucleu” Core Program (peer review activity in 2016)

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

Atmospheric Environment – Elsevier, Chemosphere - Elsevier, Environmental Science and Pollution Research – Springer, Journal of Membrane Science – Elsevier, International Journal of Environmental Analytical Chemistry - Taylor&Francis, Atmospheric Chemistry and Physics – Copernicus, Environmental Chemistry Letters – Springer, Atmospheric Research – Elsevier, Science of the Total Environment – Elsevier, Environmental Monitoring and Assessment – Springer, CLEAN - Soil, Air, Water – Springer, Journal of Liquid Chromatography and Related Technologies – Taylor&Francis, Malaysian Journal of Medical Sciences – Journal indexed in SciVerse Scopus, International Journal of Conservation Science - Index Copernicus, Acta Chimica Iasi - De Gruyter

Ability to interpret and communicate scientific data.

Training for short periods in international laboratories

August 2011: Ecole de Mines de Douai, France

March 2009: Environmental Chemical Processes Laboratory, University of Crete, Greece

December 2008: Laboratory of Analytical Chemistry, University of Torino, Italy

www pages related to scientific activities

https://ec.europa.eu/research/fp7/pdf/country-profiles/romania/country_profile_and_featured_projects.pdf

<http://medicalphysics.conferenceseries.com/speaker/2015/cecilia-arsene-university-of-iasi-romania>

http://ec.europa.eu/research/infocentre/article_en.cfm?artid=31296

Membership of professional societies

Member of the Romanian Chemical Society – since 2005

Language

English - reading, writing, speaking – very good

German - reading, writing, speaking - medium

Cecilia Arsene, PhD Habil.

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1 Peer reviewed publications in ISI quoted journals (*corresponding/first author in blue)

<http://www.scopus.com/>

1. 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**.
2. 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**.
3. 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**.
4. 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**.
5. 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**.
6. 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**.
7. 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**.
8. [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**.
9. 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**.
10. [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**.
11. 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**.
12. 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**.
13. 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**.
14. 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**.
15. Olariu, R.I., [Arsene, C.](#), Humelnicu, D., Duncianu, M., Mantu, D., Investigation on environmental radionuclide retention on hetero-polioxo-metallic sorbents for radionuclide analysis by ionic chromatography, *International Journal of Conservation Science*, 1, 248, **2010**.
16. 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**.
17. Humelnicu, D., [Arsene, C.](#), Burghele, 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**.
18. [Arsene, C.*](#), Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, *Global NEST Journal*, 11, 333-340, **2009**.
19. 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**.
20. 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**.

21. 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**.
22. 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**.
23. 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**.
24. 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**.
25. 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**.
26. 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**.
27. 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**.
28. Drochioiu, G., [Arsene, C.](#), Murariu, M., Niscu, C., Analysis of cyanogens with resorcinol and picrate, *Food and Chemical Toxicology*, 46, 3540-3545, **2008**.
29. Olariu, R.I., Humelnicu, D., [Arsene, C.](#), Sandu, I., Carja, G., Synthesis and chemical characterisation of new derivative complexes from UO₂²⁺ and Th⁴⁺ ions with (iso)polyoxomolybdate and (iso)polyoxotungstate clusters, *Revista de Chimie*, 59, 1052-1056, **2008**.
30. 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**.
31. [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**.
32. [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**.
33. 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**.
34. 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**.
35. [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**.
36. 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**.
37. [Arsene, C.](#), Olariu, R.I., Barnes, I., Dimethyl sulphide photo-oxidation at various NO₂ concentrations. 2. Investigation on particle formation, *Revue Roumanie de Chimie*, 50, 485-490, **2005**.
38. [Arsene, C.](#), Barnes, I., Olariu, R.I., Becker, K.H., Dimethyl sulphide photo-oxidation at various NO₂ concentrations. 1. Product study and mechanistic investigations, *Revue Roumanie de Chimie*, 50, 359-369, **2005**.
39. [Arsene, C.](#), Barnes, I., Becker, K.H., Schneider, W., Wallington, T., Mihalopoulos, N., Patroescu-Klotz, I., Formation of methane sulphinic acid in the gas phase OH-radical initiated oxidation of dimethyl sulphoxide, *Environmental Science and Technology*, 36, 5155-5163, **2002**.
40. Onofrei, T., [Arsene, C.](#), Hurduc, N., A non-isothermal kinetic study upon the Pb(II) sorption on chemically-modified celluloses, *Cellulose Chemistry and Technology*, 36, 507-514, **2002**.
41. [Arsene, C.](#), Barnes, I., Becker, K.H., Mocanu, R., FT-IR product study in the photo-oxidation of dimethyl sulphide in the presence of NO_x. Temperature dependence, *Atmospheric Environment*, 35, 3769-3780, **2001**.
42. Onofrei, T., Hurduc, N., [Arsene, C.](#), A non-isothermal kinetic study on the sorption of elements from group IIA on 4-(benzylcellulose)-5-azo-8-hydroxiquinoline, *Cellulose Chemistry and Technology*, 35, 235-241, **2001**.
43. Onofrei, T., [Arsene, C.](#), Mita, C., Agache, C., Sorption of elements from group IIA on 4-(benzylcellulose)-5-azo-8-hydroxiquinoline, *Cellulose Chemistry and Technology*, 35, 15-23, **2001**.

44. Onofrei, T., Hurduc, N., [Arsene, C.](#), Ionescu, D., Sorption of Cu(II), Co(II) and Ni(II) on 1-(4'-azobenzylcellulose)-2-naphtol. Thermogravimetric characterisation, *Cellulose Chemistry and Technology*, 34, 261-268, **2000**.
45. [Arsene, C.](#), Barnes, I., Becker, K.H., FT-IR product study of the photo-oxidation of dimethyl sulphide. Temperature and O₂ partial pressure dependence, *Physical Chemistry Chemical Physics*, 1, 5463-5470, **1999**.

2 Other publications

Non-peer reviewed

1. Marin, S.L., Olariu, R.I., [Arsene, C.](#), Morphological and microchemical surface analyses of modern coins minted in the 20th century, *Acta Chimica Iasi, Abstracts for Faculty of Chemistry Conference, Iasi, Romania*, 23(2), pp. 114, **2015**.
2. Mardare, G.M., Olariu, R.I., [Arsene, C.](#), Gas chromatography-mass spectrometry analysis of intermediates involved in lysergic acid biosynthesis in plants, *Abstracts for Faculty of Chemistry Conference, Iasi, Romania*, 23(2), pp. 124, **2015**.
3. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.](#), Chromatographic fingerprints as a first step in the long way of deciphering the very complex nature of herbal materials, *Acta Chimica Iasi, Abstracts for The 6th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania*, 23(1), pp. 55, **2015**.
4. Petrea-Ioneasa, G., Petrea-Ioneasa, M., Rusu, A.M., Gitman, A., Bibire, N., Olariu, R.I., [Arsene, C.](#), Reversed-phase high performance liquid chromatographic assay method of active pharmaceutical ingredients in anti-tuberculosis 2-fixed dose combination tablets, *Acta Chimica Iasi*, 22(2), DOI: 102478/achi-2014-0014, **2014**.
5. Negru, A.G., Zbancioc, G., Mangalagiu, I., [Arsene, C.](#), Olariu, R.I., Physico-chemical behaviour of newly synthesized organic compounds. A reality between expectations and experimental evidences, *Acta Chimica Iasi*, 22(2), DOI: 102478/achi-2014-0014, **2014**.
6. Mardare-Balusescu, G., Soroaga, L.V., Marin, L.S., Agafitei, M.C., [Arsene, C.](#), Olariu, R.I., Physico-chemical forensic expertise in the analysis of soil samples by graphite furnace atomic absorption spectrometry, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, *Acta Chimica Iasi*, 22(2), pp. 255, DOI: 102478/achi-2014-0014, **2014**.
7. Petrea-Ioneasa, M., Olariu, R.I., [Arsene, C.](#), Water soluble organic carbon in aerosols from Iasi, north-eastern Romania, *Acta Chimica Iasi*, 22(2), pp. 256, DOI: 102478/achi-2014-0014, **2014**.
8. [Arsene, C.](#), Olariu, R.I., Duncianu, M., Riffault, V., Tomas, A., Flow reactor ozonolysis studies of selected dimethyl hexenes in the gas phase, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference & Mini-Hot-Conference: „Recent Achievements in Organic and Supramolecular Chemistry„, *Book of Abstract, Acta Chimica Iasi*, 21(2), pp. 26, **2013**.
9. Olariu, R.I., Barnes, I., Bejan, I., [Arsene, C.](#), Vione, D., Klotz, B., Becker, K.H., Night chemistry of hydroxyl(methyl)benzenes: New directions in atmospheric chemistry at the Al.I.Cuza University of Iasi, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference & Mini-Hot-Conference: „Recent Achievements in Organic and Supramolecular Chemistry„, *Book of Abstract, Supplement of the Acta Chimica Iasi journal, Acta Chimica Iasi*, 21(2), pp. 20, **2013**.
10. Pindaru, D., Tanase, C., Iftime, C.M., Olariu, R.I., [Arsene, C.](#), Studies on water soluble ionic species of atmospheric particulate matter and lichenised fungi populations of *Xanthoria parietina* and *Phaeophyscia orbicularis* in Iasi urban area, *Acta Chimica Iasi*, 20(2), pp.64, **2012**.
11. Pindaru D.M., Tanase C., [Arsene, C.](#), Olariu R.I., Micromorphological and chemical aspects of some lichenized fungi species, *Journal of Plant Development*, 19, 73-82, **2012**.
12. Olariu, R.I., [Arsene, C.](#), Humelnicu, D., Vasilache, V., Solid-phase extraction and spectrophotometric determination of ultra trace thorium (IV) in water samples, *International Journal of Criminal Investigation*, 1, 25-30, **2011**.
13. Cernat, R.I., Butnaru, L., Mihaescu, T., Olariu, R.I., [Arsene, C.](#), Concentratii de ceruloplasmine si cuprul in serul pacientilor cu tuberculoza pulmonara activa/Ceruloplasmin and copper concentrations in patients with active pulmonary tuberculosis. ISSN 1841-6624. *Revista Romana de Medicina de Laborator 2010/ Romanian Review of Laboratory Medicine*, 18,13-14, **2010**.
14. Costica, N., Olariu, R.I., Mihai, C., Breaban, I.G., Rusu, A.I., [Arsene, C.](#), Ciomasu, I.M., Update environmental research infrastructure at „Alexandru Ioan Cuza” University of Iasi. The CERNESIM project, *Analele Stiintifice ale Universitatii „Al. I. Cuza” Iasi, Biologie, LVI, Fasc. 2*, 85-89, **2010**.
15. Humelnicu, D., Olariu, R.I., [Arsene, C.](#), Bertescu, M., Burgehele, B.D., A comparative study on the removal of uranyl ions from artificially enriched radioactive waters using clays from Romania, *Analele Stiintifice ale Universitatii „Al.I.Cuza” Iasi, Geologie, LVI, 1*, 85-93, **2010**.
16. Humelnicu, D., Olariu, R.I., [Arsene, C.](#), Humelnicu, I., New isopolyoxomolybdates derived from heptamolybdate with UO₂²⁺ and Th⁴⁺ ions, *Ovidius University Annals of Chemistry*, 20(2), 227-231, **2009**.

17. [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 Discussions*, 7, 6329–6356, **2007**.
18. [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**.
46. [Arsene, C.*](#), Mihalopoulos, N., Olariu, R.I., Atmospheric wet deposition monitoring in Iasi, Romania, in *Environmental Simulation Chambers - Application to Atmospheric Chemical Processes*, Barnes, I., Rudzinski, K. J., eds., NATO Science Series, IV. Earth and Environmental Sciences, 62, 369-377, **2006**.
19. 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**.
20. [Arsene, C.*](#), Olariu, R.I., Violaki, K., Mihalopoulos, N., Dissolved organic nitrogen deposition on land in the northeastern part of Romania, Workshop on agricultural air quality. State of the science, Aneja, V.P., Schlesinger, W.H., Knighton, R., Jennings, G., Niyogi, D., Gillian, W., Duke, C.S., eds., Potomac, Maryland USA, pp. 464-467, **2006**.
21. Duncianu, M., Olariu, R.I., [Arsene, C.](#), Mocanu, R., Wirtz, K., Reviejo, M.M., Spectro-radiometric determination of the photolysis frequency of NO₂ in Euphore chamber, ISSN 1221-5341, *Analele Stiintifice ale Universitatii "Al.I.Cuza" Iasi, Chimie*, 12, 17-24, **2004**.
22. [Arsene, C.*](#), Barnes, I., Albu, M., Olariu, R.I., Becker, K.H., Wirtz, K., Mechanistic studies on the atmospheric oxidation of organic sulphur compounds, in *The European Photoreactor EUPHORE, 4TH REPORT 2001*, Barnes, I., Wirtz, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany and Fundacion Centro de Estudios del Mediterraneo, ISBN 84-921259, Valencia, Spain, pp. 152-165, **2004**.
23. Bossoutrot, V., LeBras, G., [Arsene, C.](#), Albu, M., Barnes, I., OH-initiated oxidation of dimethyl sulphoxide, in *The European Photoreactor EUPHORE 4th REPORT 2001*, Barnes, I., Wirtz, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany and Fundacion Centro de Estudios del Mediterraneo, ISBN 84-921259, Valencia, Spain, pp. 171-174, **2004**.
24. Onofrei, T., [Arsene, C.](#), Agache, C., Sorption of Cu(II), Cd(II) and Zn(II) on 4-(benzylcellulose)-5-azo-8-hydroxyquinoline, ISSN 1221-5341, *Analele Stiintifice ale Universitatii "Al.I.Cuza" Iasi, Chimie*, 11, 69-74, **2003**.
25. [Arsene, C.*](#), Barnes, I., Olariu, I., Becker, K.H., Wirtz, K., Maldonado, C., OH-radical initiated oxidation of dimethyl sulphide and its impact on particle formation, in *The European Photoreactor EUPHORE, 3RD REPORT 2000*, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, pp. 82-98, **2001**.
26. Olariu, R.I., Barnes, I., [Arsene, C.](#), Becker, K.H., Wirtz, K., Studies on the atmospheric oxidation of phenol: II. Secondary organic aerosol formation, in *The European Photoreactor EUPHORE, 3RD REPORT 2000*, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, pp. 27-38, **2001**.
27. Olariu, R.I., Barnes, I., [Arsene, C.](#), Becker, K.H., Wirtz, K., Maldonado, C., Ponds, M., Studies on the atmospheric oxidation of phenol: I. Gas-phase product analysis, in *The European Photoreactor EUPHORE, 3RD REPORT 2000*, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, pp. 16-26, **2001**.
28. Onofrei, T., [Arsene, C.](#), Albu, M., Mita, C., Sorption of Pb(II) on chemically modified celluloses, *Analele Stiintifice ale Universitatii "Al.I.Cuza" Iasi, Chimie*, VIII, 275-280, **2000**.
29. [Arsene, C.*](#), Barnes, I., Becker, K.H., Studies on the atmospheric oxidation of dimethyl sulphide and dimethyl sulphoxide, in *The European Photoreactor EUPHORE, 2ND REPORT 1998 - 1999*, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, pp. 225-236, **2000**.
30. Barnes, I., Beyer, H., [Arsene, C.](#), Patroescu, I., Individual contributions, University of Wuppertal, pp. 28-42, in *Dimethyl sulphide (DMS). Oxidation mechanism in relation to aerosols and climate, Contribution to Project ENV 4 - CT97 - 0410. 1998-1999*, DOMAC, EUR 19569 EN, European Communities, **2000**.
31. [Arsene, C.*](#), Barnes, I., Becker, K.H., Mocanu, R., Product studies on the photo-oxidation of dimethyl sulphoxide (DMSO:CH₃S(O)CH₃), pp. 17-20, in *EC Cluster, Chemical Processes and Mechanisms and EUROTRAC-2, Chemical Mechanism Development*, Rossi, M.J., Rossi, E.M., eds., Lausanne, Switzerland, 11-13 September, **2000**.
32. [Arsene, C.*](#), Barnes, I., Becker, K.H., New product studies on the photo-oxidation of dimethyl sulphide, pp. 117-121, in *EC Cluster, Chemical Processes and Mechanisms and EUROTRAC-2*,

Chemical Mechanism Development, Vogt, R., Axelsdottir, G., eds., ISBN 3-00-005414-6, Germany, 20-22 September, **1999**.

33. Onofrei, T., [Arsene, C.](#), Mita, C., Sorption and separation of Cu(II), Co(II) and Ni(II) on 1,4'-azobenzylcellulose-2-naphthol, Southern Brazilian Journal of Chemistry, 5, 79-85, **1997**.

3 Conferences/workshops

International

- 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 (ICCESEN-2016), pp. 287, Antalya, Turkey, 19-24 October **2016**.
- 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, **2016**.
- 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, **2016**.
- [Arsene, C.](#), Chemical composition of aerosols, a fragile barrier between healing and wounding, keynote within the International Conference on Medical Physics, August 03-05, 2015, Birmingham, UK, in Journal of Nuclear Medicine and Radiation Therapy, 6:4, **2015**. <http://dx.doi.org/10.4172/2155-9619.S1.001>. Session chair
- [Arsene, C.](#), Measuring aerosol damage to the atmosphere, Success stories, http://ec.europa.eu/research/infocentre/article_en.cfm?id=/research/headlines/news/article_13_10_28_en.html&item=All&artid=31296&caller=SuccessStories, Measuring aerosol damage to the atmosphere, 28 October, **2013**.
- [Arsene, C.](#), Chemical characterization of atmospheric aerosols from local to long-range transboundary pollution. ICAARUS project at the final phase and beyond, pp. 15, in Science, Passion, Mission, Responsibilities, Marie Curie Researchers Symposium, Warsaw, Poland, 25-27 September, **2011**.
- Duncianu, M., Riffault, V., Olariu, R., [Arsene, C.](#), Tomas, A., Codeville, P., Coefficients de vitesse et produits en phase gazeuse obtenus dans les reactions d'ozonolyse d'une serie de pentenes, Premier Coloque Francophone sur les Pollutants Organique Generes par l'Agriculture et les Transports, Agadir, Morocco 24-27 Octobre, **2011**.
- Bercea, R.M., Cernat, R.I., Mihaescu, T., Mocanu, R.D., Olariu, R.I., [Arsene, C.](#) Serum Cu, Fe and Zn concentrations and their relation to the inflammation associated with active pulmonary tuberculosis. European Respiratory Journal Supplement, 3045s, 36 (54), **2010**.
- Pindaru, D., Tanase, C., Olariu, R.I., [Arsene, C.](#), Atmospheric deposition of organic and inorganic nitrogen in the north-eastern Romania, pp. 80, in 2010 International Aerosol Conference, P2K19, 29 August-03 September, Helsinki, Finland, **2010**.
- Olariu, R.I., Bejan, I., Barnes, I., Becker, K.H., [Arsene, C.](#), Evaluation of phenols-SOA formation mechanism with respect to chamber type, pp. 159, in 2010 International Aerosol Conference, P3W4, 29 August-03 September, Helsinki, Finland, **2010**.
- Cernat, R., Cioroiu, M., Dragan, D., Raducanescu, C., Olariu, R., [Arsene, C.](#), Mocanu, R., Distribution et comportement des oligo-elements et des polluants organochlorides dans le serum de personnes ayant des affections pulmonares, chroniques ou actives, pp. 71, in Colloque Franco-Roumain de chimie Apliquee, COFeRoCA-2010, ISSN 2068-6382, Orleans, France, 07-10 July, **2010**.
- Bertescu, M., Humelnicu, D., Mantu, D., Burghelle, B.D., [Arsene, C.](#), Olariu, R.I., Solid phase extraction-spectrophotometric determination of thorium (IV) in water samples, 2nd Terrestrial Radioisotopes in Environment International Conference on Environment Protection, Veszprem, Hungary, May **2010**.
- [Arsene, C.](#), Olariu, R.I., Ponzo, M., Vione, D., Fast reversed-phase ion-pair liquid chromatography in the simultaneous analysis of nitrite and nitrate in rainwater samples collected in the north-eastern Romania over 2003-2008, pp. 28, in 9th Csaba Horváth Medal Award Symposium, Hartford, Connecticut, USA, 28-29 April, **2009**.
- Olariu, R.I., [Arsene, C.](#), Humelnicu, D., Duncianu, M., Newly synthesized stationary phase used on method development for α - and β -emitters measurements in environmental samples, pp. 27, in 9th Csaba Horváth Medal Award Symposium, Hartford, Connecticut, USA, 28-29 April, **2009**.
- [Arsene, C.](#), Olariu, R.I., Kanakidou, M., Mihalopoulos, N., Atmospheric aerosol characterisation at Iasi, northeastern Romania. First results, T06A206P, European Aerosol Conference (EAC 2008), Thessaloniki, Greece, 24-29 August, **2008**.
- [Arsene, C.](#), Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, Protection and Restoration of the Environment IX (Pre-IX), Kefalonia, Greece, 29 June – 03 July, **2008**. AWARD for the BEST POSTER.

17. [Arsene, C.](#), Bougiatioti, A., Mihalopoulos, N., Indirect evidence of chlorine atom concentration in the lower troposphere of the Eastern Mediterranean, European Geosciences Union, SRef-ID: 1607-7962/gra/EGU2007-A-00538, Geophysical Research Abstracts, Vol. 9, 00538, **2007**.
18. [Arsene, C.](#), Bougiatioti, A., Kalivitis, N., Chourdakis, G., Zampas, P., Mihalopoulos, N., Non-methane hydrocarbons measurements in the eastern Mediterranean during summer: implications for OH radical and Cl atom levels, ACCENT 2nd Symposium, Atmospheric Composition Change, Causes and Consequences, Local to Global, Urbino, Italy, **2007**.
19. [Arsene, C.](#), Non methane hydrocarbons (NMHCs) variability in the Eastern Mediterranean, Regional Climate Variability and its Impacts in the Mediterranean Ares, Marrakech, Morocco, 23-27 November, **2006**.
20. [Arsene, C.](#), Liakakou, E., Bougiatioti, A., Mihalopoulos, N., Sources of non-methane hydrocarbons (NMHC_s) in the eastern Mediterranean, pp. 534, in Atmospheric Chemistry at the Interfaces, Cape Town, South Africa, 17-22 September, **2006**.
21. [Arsene, C.](#), Olariu, R.I., Violaki, K., Mihalopoulos, N., Dissolved organic nitrogen deposition on land in the northeastern part of Romania, pp. 499, in Atmospheric Chemistry at the Interfaces, Cape Town, South Africa, 17-22 September, **2006**.
22. [Arsene, C.](#), Olariu, R.I., Violaki, K., Mihalopoulos, N., Dissolved organic nitrogen deposition on land in the northeastern part of Romania, pp. 464-467, in Workshop on agricultural air quality. State of the science, Aneja, V.P., Schlesinger, W.H., Knighton, R., Jennings, G., Niyogi, D., Gillian, W., Duke, C.S., eds., Potomac, Maryland USA, 05-08 June, **2006**.
23. [Arsene, C.](#), Olariu, R.I., Barnes, I., Wirtz, K., A study of new particle formation in the OH-initiated oxidation of dimethyl sulphide, European Geosciences Union, SRef-ID: 1607-7962/gra /EGU04-A-06878, Geophysical Research Abstracts, Vol. 6, **2004**.
24. Duncianu, M., Olariu, R.I., [Arsene, C.](#), Wirtz, K., Revejo, M.M., Euphore chamber measurement of atmospheric photolysis frequencies for NO₂, O₃ and other molecules, European Geosciences Union, SRef-ID: 1607-7962/gra/EGU04-A-06932, Geophysical Research Abstracts, Vol. 6, 06932, **2004**.
25. Olariu, R.I., Tomas, A., Barnes, I., Bejan, I., [Arsene, C.](#), Wirtz, K., Organic aerosol formation during the atmospheric ozone degradation of 1,2-dihydroxybenzenes, European Geosciences Union, SRef-ID: 1607-7962/gra/EGU04-A-07103, Geophysical Research Abstracts, Vol. 6, 07103, **2004**.
26. [Arsene, C.](#), Mihalopoulos, N., Olariu, R.I., Atmospheric Wet deposition monitoring in Iasi, Romania, pp. 18, NATO: EST.ARW 980164, Environmental Simulation Chambers: Application to Atmospheric Chemical Processes, Zakopane, Poland, 01-04 October, **2004**.
27. Olariu, R.I., Duncianu, M., [Arsene, C.](#), Wirtz, K., Determination of photolysis frequencies for small carbonyl compounds using the EUPHORE chamber facilities, pp. 19, in NATO: EST.ARW 980164, Environmental Simulation Chambers: Application to Atmospheric Chemical Processes, Zakopane, Poland, 01-04 October, **2004**.
28. Albu, M., Barnes, I., Patroescu-Klotz, I., [Arsene, C.](#), Mocanu, R., Simulation chamber experiments on the OH-initiated oxidation of dimethyl sulphide at low temperatures, European Geophysical Society, Geophysical Research Abstracts, Vol. 5, 11050, **2003**.
29. Olariu, R.I., Barnes, I., Bejan, I., [Arsene, C.](#), Becker, K.H., Wirtz, K., Secondary organic aerosol formation from the atmospheric oxidation of phenols, European Geophysical Society, Geophysical Research Abstracts, Vol. 5, 11692, **2003**.
30. Albu, M., [Arsene, C.](#), Barnes, I., FT-IR product investigations of the OH-initiated oxidation of dimethyl sulphide at sub-zero temperatures, pp.11, in EC/EUROTRAC-2 Joint Workshop, Shaping the Future of Atmospheric Chemistry Research in Europe, Paris, France, **2002**.
31. Albu, M., [Arsene, C.](#), Barnes, I., Investigations of the OH-initiated oxidation of dimethyl sulphide at sub-zero temperatures, pp. 144-145, in 7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Heraklion, Crete, Greece, **2002**.
32. [Arsene, C.](#), Barnes, I., Albu, M., Product study of the Cl Atom initiated photo-oxidation of dimethyl sulphide, pp.145-146, in 7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Heraklion, Crete, Greece, **2002**.
33. [Arsene, C.](#), Barnes, I., Albu, M., Chlorine atom reaction kinetics with organic sulphur compounds as a function of temperature and O₂ partial pressure, in 17th International Symposium on Gas Kinetics, AP03, Essen, Germany, **2002**.
34. Barnes, I., [Arsene, C.](#), Yields of aerosol precursors in the oxidation of DMS as a function of atmospheric conditions (temperature and NO_x), Poster zum Status Seminare AFS, Contribution to Projekt No.: 07 AF 225. 1998-2001, Köln, Germany, **2001**.
35. [Arsene, C.](#), Barnes, I., Becker, K.H., Studies on the Photo-oxidation of dimethyl sulphide and dimethyl sulphoxide under atmospheric conditions, in Proceedings of the A Changing Atmosphere, 8th European Symposium on the Physico-Chemical Behaviour of Atmospheric Pollutants, Hjorth, J., Jensen, N., eds., Torino, Italy, 17-20 September, **2001**.
36. [Arsene, C.](#), Barnes, I., Albu, M., Becker, K.H., Investigations of the particle formation from the photooxidation of DMS, Global Atmospheric Change and its Impact on Regional Air Quality,

- Advanced Research Workshop, NATO Science Programme, Irkutsk, Russian Federation, 22-27 August, **2001**.
37. Barnes, I., Beyer, H., [Arsene, C.](#), Patroescu, I., Individual contributions, University of Wuppertal, pp. 28-42, in Dimethyl sulphide (DMS). Oxidation mechanism in relation to aerosols and climate, Contribution to Project ENV 4 - CT97 – 0410. 1998-1999, DOMAC, EUR 19569 EN, European Communities, **2000**.
 38. [Arsene, C.](#), Barnes, I., Becker, K.H., Mocanu, R., Product studies on the photo-oxidation of dimethyl sulphoxide (DMSO:CH₃S(O)CH₃), pp. 17-20, in EC Cluster, Chemical Processes and Mechanisms and EUROTRAC-2, Chemical Mechanism Development, Rossi, M.J., Rossi, E.M., eds., Lausanne, Switzerland, 11-13 September, **2000**.
 39. Onofrei, T., [Arsene, C.](#), Albu, M., Sorption of Pb(II) on chemically modified celluloses, P-109, in Euroanalysis XI, European Conference on Analytical Chemistry, Book of Abstracts, Lisbon, Portugal, **2000**.
 40. [Arsene, C.](#), Barnes, I., Becker, K.H., New product studies on the photo-oxidation of dimethyl sulphide, pp. 117-121, in EC Cluster, Chemical Processes and Mechanisms and EUROTRAC-2, Chemical Mechanism Development, Vogt, R., Axelsdottir, G., eds., ISBN 3-00-005414-6, Germany, 20-22 September, **1999**.
 41. Barnes, I., Becker, K.H., [Arsene, C.](#), New product studies on the photo-oxidation of dimethyl sulphide, pp.140, in Sixth Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Book of Abstracts, Bologna, Italy, 13-17 September, **1999**.
 42. [Arsene, C.](#), Barnes, I., Produkt- und aerosolbildung bei der DMS-oxidation, in Proceeding of Atmosphärische Umweltforschung im Wandel, Berlin, Germany, **1999**.
 43. [Arsene, C.](#), Barnes, I., Becker, K.H., New product and aerosol studies on the oxidation of dimethyl sulfide, in Proceedings of the US-German Environmental Chamber Workshop, Riverside, <http://cert.ucr.edu/carter/epacham/meeting1.htm>, Riverside, California, **1999**.
 44. Barnes, I., [Arsene, C.](#), Patroescu, I., Aerosol und Produktbildung bei der dimethylsulfid-oxidation, Poster zum Status Seminare AFS, Munchen, Germany, 24-25 June, **1999**.
 45. Barnes, I., Bayer, H., [Arsene, C.](#), Neue produktstudien der atmosphärischen dimethylsulfide-bzw. dimethylsulfoxid oxidation, pp. B53, in Physikalische Chemie der Atmosphäre, Crutzen, P.J., Zellner, R., ISSN 0936-9376, Dortmund, Germany, 13-15 May, **1999**.
 46. Onofrei, T., [Arsene, C.](#), Sorption of Cu(II), Cd(II) and Zn(II) on 4(benzylcellulose)-5-azo-8-hydroxyquinoline, p. 345, in Chimia, Euroanalysis 10, Abstract Book, Vol. 52, 299-427, ISSN 0009-4293, 7-8/98, Verlag Helvetica Chimica Acta, Swiss, 06 September, **1998**.

National

1. Olariu, R.I., [Arsene, C.](#), Pintilei Bejan, I., Newly designed simulation chamber for atmospheric chemistry investigations, XXXIV-th Romanian Chemistry Conference, A XXXIV-a Conferinta Nationala de Chimie, pp. 9, Valcea, Romania, **2016**.
2. 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, A XXXIV-a Conferinta Nationala de Chimie, pp. 7, Valcea, Romania, **2016**.
3. Galon (Negru), A.G., Olariu, R.I., [Arsene, C.](#), Vertical transport of continental air masses and their influence on the distribution of size resolved aerosols from Iasi, Romania, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 27 - 29 October, **2016**.
4. Roman, C., Bejan, I., [Arsene, C.](#), Olariu, R.I., Gas phase infrared absorption cross sections for a series of aromatic compounds in the ESC-Q-UAIC chamber, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, 27 - 29 October, **2016**.
5. 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**.
6. 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, **2016**.
7. 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, Sesiunea de comunicari stiintifice a studentilor, masteranzilor și doctoranzilor (SCSSMD), Chimia - frontiera deschisa spre cunoastere, editia VII, pp. 4, Iasi, Romania, 24 Iunie, **2016**.
8. 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, Sesiunea de comunicari stiintifice a studentilor, masteranzilor și doctoranzilor (SCSSMD), Chimia - frontiera deschisa spre cunoastere, editia VII, pp. 6, Iasi, Romania, 24 Iunie, **2016**.

9. Rusu, A.M., Matei, M., Mahu, E., Ababei, G.I., Cucu, D., Smadici, R.M., Badragan, L.O., Aonigioaiei, C., Bivol (Augustin), G., Cretu, A.F., Damaschin, R.P., Olariu, R.I., [Arsene, C.](#), On how the lack of experience in hplc measurements of aspirin, a selected medicine, can bring you into the trap of elaborating erroneously conclusion, pp. 8, Sesiunea de comunicari stiintifice a studentilor, masteranzilor și doctoranzilor (SCSSMD), Chimia - frontiera deschisa spre cunoastere, editia VII, pp. 8, Iasi, Romania, 24 Iunie, **2016**.
10. 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, Sesiunea de comunicari stiintifice a studentilor, masteranzilor și doctoranzilor (SCSSMD), Chimia - frontiera deschisa spre cunoastere, editia VII, pp. 10, Iasi, Romania, 24 Iunie, **2016**.
11. 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, IC-ANMBES 2016, Florescu, M., Raicu, V., LeGac, S., Turcu, I., Maerty, J.L., Eds., pp. 116, Transilvania University Press, ISSN 2360-3461, **2016**.
12. 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, IC-ANMBES 2016, Florescu, M., Raicu, V., LeGac, S., Turcu, I., Maerty, J.L., Eds., pp. 121, Transilvania University Press, ISSN 2360-3461, **2016**.
13. 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, May, **2016**.
14. 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, May, **2016**.
15. 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, pp. 53, Iasi, Romania, 16-18 May, **2016**.
16. 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, pp. 68, Iasi, Romania, 16-18 May, **2016**.
17. Galon (Negru), G.A., Olariu, R.I., [Arsene, C.](#), Mass concentrations and chemical composition of size resolved atmospheric aerosols in the north-eastern Romania, Iasi region, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), pp. 35, Cluj-Napoca, Romania, 12-14 May, **2016**.
18. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.](#), Gas chromatography-mass spectrometry analysis of a lignin marker and an indirect contributor to secondary organic aerosols in the atmosphere: p-vinylguaiaicol in *Datura innoxia*, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), pp. 33, Cluj-Napoca, Romania, 12-14 May, **2016**.
19. Marin, S.L., Galon (Negru), A.G., Mardare (Balusescu), G., Bejan, I., Olariu, R.I., [Arsene, C.](#), Gas-phase kinetic study of OH radical reactions with mesitylene in the newly designed ESCQ-UAIC chamber, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), pp. 34, Cluj-Napoca, Romania, 12-14 May, **2016**.
20. Mardare (Balusescu), G., Olariu, R.I., [Arsene, C.](#), Tandemul cromatografie de gaze-spectrometrie de masă ca instrument ideal în decelarea „drogurilor ascunse” de „natura verde”, Conferinta de Criminalistica, 4th Edition, Iasi, Romania, 02-03 April, **2016**.
21. Marin, S.L., Olariu, R.I., [Arsene, C.](#), Morphological and microchemical surface analyses of modern coins minted in the 20th century, Conferinta Facultatii de Chimie, Iasi, Romania, editia 2015, 29-31 October, **2015**.
22. Mardare, G.M., Olariu, R.I., [Arsene, C.](#), Gas chromatography-mass spectrometry analysis of intermediates involved in lysergic acid biosynthesis in plants, Conferinta Facultatii de Chimie, Iasi, Romania, editia 2015, 29-31 October, **2015**.
23. Mardare, G.M., Olariu, R.I., [Arsene, C.](#), Gas chromatographic analysis of secondary metabolites in *Datura innoxia*, International Conference of Young Researchers, New Trends in Environmental and Materials Engineering, Galati, Romania, 21-23 October, **2015**.
24. Mardare, G.M., Olariu, R.I., [Arsene, C.](#), Secondary metabolites, drugs precursors and chromatographic techniques as interrelated concepts in forensic chemistry, Conferinta internationala de criminalistica „Clasic si modern in obtinerea si valorificarea stiintifica a probatoriului”, Cluj Napoca, Romania, 13-15 May, **2015**.
25. Mardare, G.M., Olariu, R.I., [Arsene, C.](#), Chromatographic fingerprint analysis of secondary metabolites in plants extracts using gas chromatography-mas spectrometry, Sesiunea de comunicări

- științifice a studenților, masteranzilor și doctoranzilor (SCSSMD), „Chimia - frontieră deschisă spre cunoaștere”, editia VI, Iasi, Romania, 26 Iunie, **2015**.
26. Petrea-Ioneasa, G., Petrea-Ioneasa, M., Rusu, A.M., Gitman, A., Bibire, N., Olariu, R.I., [Arsene, C.](#) Reversed-phase high performance liquid chromatographic assay method of active pharmaceutical ingredients in anti-tuberculosis 2-fixed dose combination tablets, 3rd French-Romanian Colloquim on Medicinal Chemistry, pp. 50, 30-31 October, **2014**.
 27. Negru, A.G., Zbancioc, G., Mangalagiu, I., [Arsene, C.](#), Olariu, R.I., Physico-chemical behaviour of newly synthesized organic compounds. A reality between expectations and experimental evidences, 3rd French-Romanian Colloquim on Medicinal Chemistry, pp. 51, 30-31 October, **2014**.
 28. Olariu, R.I., [Arsene, C.](#), Barnes, I., Klotz, B., Becker, K.H., Gas-phase absorption cross sections of selected aromatic hydrocarbons in the IR spectral ranges, “Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, **2014**.
 29. Mardare-Balulescu, G., Soroaga, L.V., Marin, L.S., Agafitei, M.C., [Arsene, C.](#), Olariu, R.I., Physico-chemical forensic expertise in the analysis of soil samples by graphite furnace atomic absorption spectrometry, “Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, **2014**.
 30. Petrea-Ioneasa, M., Olariu, R.I., [Arsene, C.](#), Water soluble organic carbon in aerosols from Iasi, north-eastern Romania, “Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference Iasi, Romania, 30 October-01 November, **2014**.
 31. Bibire, N., Olariu, R.I., Vieriu, M., Panainte, A.D., Cernat, R.I., [Arsene, C.](#) Analiza prin cromatografie de lichide de inalta performanta cu faza inversa a unor medicamente antituberculoase de prima linie/Reversed phase-high performance liquid chromatographic analysis of some first line antituberculosis drugs, Congresul National de Farmacie din Romania, editia a-XV-a, Iasi, Romania, 24-27 September, Volum de rezumate, ISBN 978-606-544-252-8, pp. 312, Editura „Gr. T. Popa”, UMF Iasi, **2014**.
 32. [Arsene, C.](#), Chemistry – a piece of wonder in the long way to fulfill the dream to reach one of the world’s end “The Cape of the Good Hope”, 1st International Conference Perspectives in the Humanities and Social Sciences: Hinting at Interdisciplinarity, Iasi, Romania, 23-24 Mai, **2014**.
 33. [Arsene, C.](#), Workshop “Luminol and Kastle Mayer”, Conferinta Internationala de Criminalistica, Iasi Romania, 05-06 April, **2014**.
 34. Olariu, R.I., Barnes, I., Bejan, I., [Arsene, C.](#), Vione, D., Klotz, B., Becker, K.H., Night chemistry of hydroxyl(methyl)benzenes: New directions in atmospheric chemistry at the A.I.I.Cuza University of Iasi, “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**.
 35. [Arsene, C.](#), Olariu, R.I., Riffault, V., Tomas, A., Flow reactor ozonolysis studies of selected dimethyl hexenes in the gas phase, “Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference & Mini-Hot-Conference: „Recent Achievements in Organic and Supramolecular Chemistry”, Iasi, Romania, 31 October-02 November, **2013**.
 36. [Arsene, C.](#), Cromatografia in macro si microcosmosul investigatiilor criminalistice. In cautarea acului in carul cu fan, Conferinta Nationala “Criminalist pentru o zi”, Iasi, Romania, 23 Iunie, **2013**.
 37. Pindaru, D.M., Tanase, C., Iftime, C.M., [Arsene, C.](#), Olariu, R.I., Analiza speciilor ionice solubile în apa din materia particulata atmosferic si din populatiile de ciuperci lichenizate Xanthoria parietina si Phaeophyscia orbicularis din zona urbana Iasi. Sesiunea de comunicari stiintifice, Facultatea de Chimie, Universitatea „Alexandru Ioan Cuza” Iasi, Conferinta Facultatii de Chimie, Iasi, Romania, 25-26 October, **2012**.
 38. Pindaru, D.M., Tanase, C., [Arsene, C.](#), Olariu, R.I., Influenta poluanților asupra speciilor de ciuperci lichenizate Xanthoria parietina si Phaeophyscia orbicularis, pp. 38, in Sesiunea de comunicari stiintifice, Facultatea de Biologie, Universitatea „Alexandru Ioan Cuza” Iasi, Iasi, Romania, 26-27 October, **2012**.
 39. Pindaru, D.M., Tanase, C., [Arsene, C.](#), Olariu, R.I., Biological and chemical characterisation of cortical lichenised fungi specimens, pp. 6, in „Rezultate de excelenta in cercetarea stiintifica, un prim pas spre inserarea profesionala. Conferinta anuala a scolilor doctorale” POSDRU 107/1.5/S/78342 DOC-Paideia, Iasi, Romania, 19-20 October, **2012**.
 40. Pindaru, D.M., Tanase, C., [Arsene, C.](#), Olariu, R.I., Impactul nutrientilor atmosferici asupra frecventei ciupercilor lichenizate in centrele urbane, pp. 105-106, in Simpozion stiintific “Conservarea diversității plantelor in situ și ex situ”, Gradina Botanica, ISBN 978-973-640-677-5, Iasi, Romania, 27-29 October, **2011**.
 41. Pindaru, D.M., Iftime, C.M., [Arsene, C.](#), Olariu, R.I., Tanase, C., Variabilitatea unor parametri chimici din ciupercile lichenizate Xanthoria parietina si Phaeophyscia orbicularis colectate din zona urbană Iasi, Sesiunea de comunicari stiintifice, Facultatea de Chimie, Universitatea „Alexandru Ioan Cuza” Iasi, Iasi Romania, 28 October, **2011**.

42. Pindaru, D.M., Tanase, C., [Arsene, C.](#), Olariu, R.I., Xanthoria parietina and Phaeophyscia orbicularis as lichenized fungi used in air quality biomonitoring of Iasi region, pp. 11, in „Rezultate de excelenta in cercetarea stiintifica, un prim pas spre inserarea profesionala. Conferinta anuala a scolilor doctorale” POSDRU 107/1.5/S/78342 DOC-Paideia, ISBN 978-973-0-11612-0, Iasi, Romania, 21-22 October, **2011**.
43. [Arsene, C.](#), Olariu, R.I., Duncianu, M., Chemical composition of tropospheric aerosols in Iasi, north-eastern Romania, pp. 233, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, **2010**.
44. [Arsene, C.](#), Humelnicu, D., Olariu, R.I., Solid-phase extraction-spectrophotometric determination of the radionuclides in water samples, pp. 230, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, **2010**.
45. Pindaru, D., Tanase, C., Barsan, C., Olariu, R.I., [Arsene, C.](#), Atmospheric organic nitrogen deposition fluxes from the fine and coarse particles in Iasi, north-eastern Romania, pp. 238, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, **2010**.
46. Marcu, M., Olariu, R.I., [Arsene, C.](#), Speciation and temporal variability of iron in wet and dry deposition in Iasi, north-eastern Romania, pp. 237, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, **2010**.
47. Bertescu, M., [Arsene, C.](#), Duncianu, M., Humelnicu, D., Mantu, D., Olariu, R.I., Solid-phase extraction of ultratrace thorium(IV) in water samples using polioxometalic material modified with silica and its spectrophotometric determination with arsenazo II, pp. 241, in The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, Valcea, Romania, 06-08 October, **2010**.
48. Cernat, R.I., Mihaescu, T., Mocanu, R.D., Olariu, R.I., [Arsene, C.](#), Studii privind determinarea unor elemente esențiale în probe biologice (păr, piele, spută) provenite de la indivizi în diferite stări clinice. INSPIR. Conferința Națională de Pneumologie, Iași, România, **2010**.
49. 5th Conference of the Romanian Association of Medical Laboratories, Mamamia, Romania, 16-19 June, **2010**.
50. Cernat, R.I., Mihaescu, T., Mocanu, R.D., Olariu, R.I., [Arsene, C.](#), Comportamentul fierului, feritinei și transferinei serice la adulții tratați pentru tuberculoza pulmonară activă, pp.10-10, in Al 21-lea Congres al Societății Române de Pneumologie, Plamanul, parte a unui întreg; www.congrespneumo2010.com, ISBN: 978-973-0-08646-1, Bucharest, Romania, 09-12 June, **2010**.
51. Bertescu, M., Humelnicu, D., Mantu, D., Humelnicu, I., [Arsene, C.](#), Olariu, R.I., pH influence on the extraction in solid phase on the Th(IV) ions onto POMs sorbent type, pp. 170, in 14th International Conference on Physical Chemistry, ROMPHYSICHEM-14, Bucharest, Romania, 02-04 June, **2010**.
52. Gherasim, C.V., Bourceanu, G., Olariu, R.I., [Arsene, C.](#), Selective separation of lead (II) ions using a PVC-based polymer inclusion membrane, pp. 10, in International Conference on Fishery and Aquaculture, A view point upon the sustainable management of the water resources in the Balkan area, Marine, fresh water and soil pollution – public health protection section, Galati, Romania, 26-28 May, **2010**.
53. Olariu, R.I., Duncianu, M., [Arsene, C.](#), Wirtz, K. Determination of photolysis frequencies for VOCs using the Euphore chamber facilities, pp. 198, in 10th International Balkan workshop on Applied Physics, Ovidius University Press, ISBN 978-973-614-507-0, Constanta, Romania, 06-08 July, **2009**.
54. Humelnicu, D., Olariu, R.I., [Arsene, C.](#), Synthesis and characterisation of some isopolyoxomolybdates with UO_2^{2+} and Th^{4+} ions, pp. 89-90, in International Conference, Chimia 2009, New Trends in Applied Chemistry, Ovidius University Press, ISBN 978-973-614-500-1, Constanta, Romania, 13-16 May, **2009**.
55. Cernat, R.I., Mocanu, R.D., Olariu, R.I., [Arsene, C.](#), Rolul metalelor în urme în anemia cronică inflamatorie, The days of the „Al.I. Cuza” University of Iasi, Iasi, Romania, **2009**.
56. [Arsene, C.](#), Olariu, R.I., Kanakidou, M., Mihalopoulos, N., On how sodium and ammonium chloride salts may influence aerosols chemistry, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, **2009**.
57. [Arsene, C.](#), Olariu, R.I., Bougiatioti, A., Mihalopoulos, N., Meteorological factors role in hydrocarbons distribution, The days of the „Al.I. Cuza” University of Iasi, Iasi, Romania, **2009**.
58. Pindaru, D., Bertescu, M., Paslaru, E., Burghel, B., Diaconu, R., Mahu, L., Marcu, M., Oniciuc, A., Onila, I., Parasca, M., Pascaru, A., Parparita, E., Olariu, R.I., [Arsene, C.](#), Variabilitatea spațială a parametrilor de calitate din apă potabilă. Regiunea de NE a României (Iasi, Vaslui, Suceava), The days of the „Al.I. Cuza” University of Iasi, Iasi, Romania, **2009**.
59. Baesu-Gherasim, C.V., Bourceanu, G., Olariu, R.I., [Arsene, C.](#), Studii asupra extracției și transportului prin membrane lichide a ionilor Pb (II), The days of the „Al.I. Cuza” University of Iasi, Iasi, Romania, **2009**.
60. Cernat, R., Butnaru, L., Cioroiu, M., Balta, L., Mocanu, R., [Arsene, C.](#), Cuprul și zincul, indicatori pentru eventuale afecțiuni pulmonare, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 24-25 October, **2008**.

61. Cernat, R., Butnaru, L., Cioroiu, M., Balta, L., Mocanu, R., [Arsene, C.](#), Variabilitatea parametrilor biochimici în diferite boli pulmonare, Conferinta Internationala de Pneumologie INSPIR, Iasi, Romania, **2008**.
62. Olariu, R.I., [Arsene, C.](#), Barnes, I., Becker, K.H., Secondary organic aerosol formation from selected aromatic hydrocarbons under simulated atmospheric conditions, Mediul actual&dezvoltarea durabilă, AI 3^{lea} Simpozion International de Geografia Mediului, Iasi, Romania, 17-19 October, **2008**.
63. [Arsene, C.](#), Non-methane hydrocarbon measurements. Implications for the atmospheric photochemistry, pp. 361, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, **2008**.
64. [Arsene, C.](#), Olariu, R.I., Theodosi, Ch., Mihalopoulos, N., Trace metals in precipitation in an urban area of Romania, pp. 360, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, **2008**.
65. Duncianu, M., Vione, D., [Arsene, C.](#), Olariu, R.I., Kinetic study regarding the nitrophenols decay pathways in atmospheric aqueous phase and surface waters, pp. 337, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, **2008**.
66. Olariu, R.I., Humelnicu, D., [Arsene, C.](#), Synthesis and chemical characterization of new UO_2^{2+} and Th^{4+} isopolioxomolybdate and isopolioxotungstate derivative complexes, pp. 149, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, **2008**.
67. Humelnicu, D., Olariu, R.I., [Arsene, C.](#), Synthesis of heteropolyoxometalates with uranyl and thorium ions with possible applications in the decontamination of radioactive liquid wastes, pp. 124, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, **2008**.
68. Dirtu, A.C., Cernat, R., [Arsene, C.](#), Covaci, A., Phenolic organohalogenated contaminants in human serum from Belgium and Romania, pp. 406, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, ISBN 973750124-1, Calimanesti-Valcea, Romania, 08-10 October, **2008**.
69. Cernat, R., Butnaru, L., Cioroiu, M., Balta, L., Mocanu, R., [Arsene, C.](#), Variability of biochemical parameters in various lung diseases/Variabilitatea parametrilor biochimici în diferite boli pulmonare, Conferinta de Pneumologie cu participare internationala INSPIR 2008, Editia VI, Iasi, Romania, September, pp. 40-41, **2008**.
70. [Arsene, C.](#), Olariu, R.I., Mihalopoulos, N., Chemical composition of rainwater in the north-eastern part of Romania, Environmental Research and Mitigation of Water Pollution in Romania and in the Lower Danube Region, International ESTROM Conference, Bucharest, Romania, 03-05 September, **2008**.
71. Cernat, R., Cioroiu, M., Mocanu, R., [Arsene, C.](#), Folosirea indicilor biochimici in atribuirea tuberculozei pulmonare, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 26-27 October, **2007**.
72. Olariu, R.I., Vione, D., Cucu-Man, S., Duncianu, M., [Arsene, C.](#), A case study of the groundwater quality in the village of Letcani, Iasi, Romania, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 26-27 October, **2007**.
73. [Arsene, C.](#), Mihalopoulos, N., Olariu, R.I., Ivanuca, S., Miron, A., Motu, M., Puscasu, C.M., Chemical characterisation of precipitation in the north eastern part of Romania, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, **2006**.
74. [Arsene, C.](#), Olariu, R.I., Mihalopoulos, N., Organic and inorganic acidity in a wet precipitation study in the northeastern Romania, 2nd International Conference on Environmental Research and Assessment, Bucharest, Romania, 05-08 October, **2006**.
75. [Arsene, C.](#), Bougiatioti, E., Mihalopoulos, N., Development of a gas chromatographic method (GC) for non-methane hydrocarbons (NMHC_S) measurements in the gas phase, pp. 377, A XXIX- a Conferinta Nationala de Chimie, ISBN-10 973-750-049-0; ISBN-13 978-973-750-049-6, Calimanesti-Valcea, Romania, 04-06 October, **2006**.
76. [Arsene, C.](#), Barnes, I., Albu, M., Olariu, R.I., Bejan, I., Wirtz, K., Gas phase reactions of organic sulphur compounds with Cl atoms and NO₃ radicals, pp. 376, A XXIX- a Conferinta Nationala de Chimie, ISBN-10 973-750-049-0; ISBN-13 978-973-750-049-6, Calimanesti-Valcea, Romania, 04-06 October, **2006**.
77. Olariu, R.I., Rinaldi, E., Ravizolli, B., Vione, D., [Arsene, C.](#), Spatial and temporal variation of groundwater nitrate concentration in a rural area in the northeastern Romania, pp. 449, A XXIX- a Conferinta Nationala de Chimie, ISBN-10 973-750-049-0; ISBN-13 978-973-750-049-6, Calimanesti, Romania, 04-06 October, **2006**.
78. [Arsene, C.](#), Vione, D., Olariu, R.I., Nitrate in ground waters-still an important problem?, pp. 78, in EnvEdu 2005 Conference, Trends in Environmental Education, Badea, M., Sica, M., Draghici, C., eds., ISBN 973-635-554-3, Editura Universitatii Transilvania Brasov, Brasov, Romania, **2005**.

79. Olariu, R.I., [Arsene, C.](#), Reviejo, M.M., Wirtz, K., European photoreactor - Euphore. Technical descriptions and facilities, pp. 61, EnvEdu 2005 Conference, Trends in Environmental Education, Badea, M., Sica, M., Draghici, C., eds., ISBN 973-635-554-3, Editura Universitatii Transilvania Brasov, Brasov, Romania, **2005**.
80. Bejan, I., Olariu, R.I., [Arsene, C.](#), Barnes, I., Mocanu, R., Becker, K.H., Laboratory simulation chamber – a microscale atmosphere, pp. 81, in EnvEdu 2005 Conference, Trends in Environmental Education, Badea, M., Sica, M., Draghici, C., eds., ISBN 973-635-554-3, Editura Universitatii Transilvania Brasov, Brasov, Romania, **2005**.
81. [Arsene, C.](#), Olariu, R.I., Mihalopoulos, N., Annual wet deposition of sulphate and nitrate in Iasi, Romania, pp. 85, in 3rd Black Sea Basin Conference on Analytical Chemistry, Process Related Environmental Analytical Chemistry, Chirila, E., Draghici, C., eds., ISBN 614-291-4, Ovidius University Press, Constanta, Romania, 12-14 September, **2005**.
82. [Arsene, C.](#), Barnes, I., Olariu, R.I., Development of an ion chromatographic (IC) optimized method for organic sulphur compounds analysis, S04-P06, pp. 24, in Romanian International Conference on Chemistry and Chemical Engineering, RIVVVR XIV, Bucharest, Romania, 22-24 September, **2005**.
83. [Arsene, C.](#), Olariu, R.I., Duncianu, M., Monitorizarea depozitelor atmosferice in Iasi, Romania, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, 09-30 October, **2004**.
84. Duncianu, M., Olariu, R.I., Wirtz, K., [Arsene, C.](#), Mocanu, R., Determinarea frecventelor de fotoliza ale unor specii chimice din atmosfera pe baza masuratorilor spectrale ale fluxului actinic, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, **2004**.
85. [Arsene, C.](#), Olariu, R.I., Barnes, I., Aerosol formation in the photo-oxidation of dimethyl sulphide at various NO₂ concentrations, pp. 21, in Mediul-Cercetare, Protectie si Gestiune, Environment&Progress, Cluj Napoca, Romania, **2004**.
86. Olariu, R.I., Barnes, I., Klotz, B., Bejan, I., [Arsene, C.](#), Wirtz, K., Organic aerosol formation during the atmospheric degradation of phenols, pp. 28, in Mediul-Cercetare, Protectie si Gestiune, Environment&Progress, Cluj Napoca, Romania, **2004**.
87. [Arsene, C.](#), Barnes, I., Olariu, R.I., Yields of sulphur containing productys in the photo-oxidation of dimethyl sulphide at various NO₂ concentrations, pp. 387, Rezumate A XXVIII- a Conferinta Nationala de Chimie, ISBN 973-8488-74-5, Calimanesti-Valcea, Romania, 06-08 October, **2004**.
88. Olariu, R.I., Duncianu, M., [Arsene, C.](#), Wirtz, K., Determination of photolysis frequencies for some aromatic aldehydes using the Euphore chamber facilities, pp. 345, Rezumate A XXVIII- a Conferinta Nationala de Chimie, ISBN 973-8488-74-5, Calimanesti-Valcea, Romania, 06-08 October, **2004**.
89. [Arsene, C.](#), Formarea aerosolilor din oxidarea in faza gazoasa a unor compusi organici cu sulf, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, **2003**.
90. [Arsene, C.](#), Olariu, R.I., Wirtz, K., Oxidarea initata de radicalii OH a dimetil sulfurii si impactul ozonului asupra formării particulelor de aerosoli, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, **2003**.
91. Olariu, R.I., [Arsene, C.](#), Duncianu, M., Wirtz, K., Reviejo, M.M., EUROpean PHOtoreactor – EUPHORE. Technical descriptions and facilities, The days of „Al.I. Cuza” University of Iasi, Iasi, Romania, **2003**.
92. [Arsene, C.](#), Mecanismul degradarii atmosferice a dimetil sulfurii in prezenta oxizilor de azot, The days of „Al.I. Cuza” University of Iasi, Iasi, **2002**.
93. [Arsene, C.](#), Barnes, I., Olariu, R.I., Mocanu, R., Becker, K.H., Investigation of Particle Formation in the Photo-oxidation of Selected Organic Sulphur Compounds, pp. 321, A XXVII- a Conferinta Nationala de Chimie, Calimanesti-Valcea, Romania, 23-25 October, **2002**.
94. Olariu, R.I., Barnes, I., [Arsene, C.](#), Becker, K.H., Mocanu, R., Wirtz, K., Reveijo, M.M., Studies of the Atmospheric Oxidation of Phenol in the EUPHORE Chamber, pp. 297, A XXVII- a Conferinta Nationala de Chimie, Calimanesti-Valcea, Romania, 23-25 October, **2002**.
95. Onofrei, T., [Arsene, C.](#), Veleanu, M., Concentration of Pb(II) on chelating cellulose with azo and thiourea groups, XIVth National Conferenece on Analytical Chemistry, SCAR 98, Piatra Neamt, Romania, 24-26 September, **1998**.

4 Books

1. [Cecilia Arsene](#), Romeo Iulian Olariu, Cercetarea criminalistica a microurmelor, ISBN: 978-606-8363-09-7x1, 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**.
3. [Cecilia Arsene](#), Romeo Iulian Olariu, Understanding atmospheric chemistry of hydrocarbons. An introductory approach, ISBN: 978-973-702-657-6, TEHNOPRESS, Iasi, **2009**.
4. [Cecilia Arsene](#), Romeo Iulian Olariu, Sulfur 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**.

5 Invited speaker in international workshops/conferences/other actions

- 1) [Arsene, C.](#), Negru-Galon, A.G., Mardare-Balulescu, 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 Conference, Lisbon, Portugal, 05-07-December, **2016**.
- 2) [Arsene, C.](#), Chemical composition of aerosols, a fragile barrier between healing and wounding, keynote within the International Conference on Medical Physics, August 03-05, 2015, Birmingham, UK, in Journal of Nuclear Medicine and Radiation Therapy, 6:4, **2015**. <http://dx.doi.org/10.4172/2155-9619.S1.001>. Session chair
- 3) [Arsene, C.](#), Chemistry – a piece of wonder in the long way to fulfill the dream to reach one of the world's end “The Cape of the Good Hope”, 1st International Conference Perspectives in the Humanities and Social Sciences: Hinting at Interdisciplinarity, Iasi, Romania, 23-24 Mai, **2014**.
- 4) [Arsene, C.](#), 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**.
- 5) [Arsene, C.](#), Atmospheric aerosols in the north-eastern Romania, The Ecole Nationale Supérieure des Techniques Industrielles et des Mines de Douai, 02 September **2011**.
- 6) [Arsene, C.](#), Olariu, R.I., Duncianu, M., Chemical composition of tropospheric aerosols in Iasi, north-eastern Romania, 31st National Conference of Chemistry, Valcea, Romania, 05-07 October **2010**.
- 7) [Arsene, C.](#), Non-methane hydrocarbons variability in the Eastern Mediterranean, Advanced Research Workshop, Marrakesh, Morocco, 2006. Regional Climate Variability and its Impacts in the Mediterranean Area, Advanced Research Workshop, Marrakech, Morocco, 23 – 27 November **2006**.
- 8) [Arsene, C.](#), Olariu, R.I., Mihalopoulos, N., 2nd International Conference on Environmental Research and Assessment, Organic acidity in a wet precipitation study in the northeastern Romania, Romanian Academy, Bucharest, 05 - 08 October, **2006**.

6 Certificated abilities

- 1) Certificate with registered no. TRRO AK-32-2010 emitted by TUV Rheinland Romania. Certificate acknowledging completing and undertaking the examination in Bucharest on 19.02.2010 for the course „Assistant for testing and calibration laboratories”, (32 hours), according to the national standard SR EN ISO/CEI 17025:2005 identical with the European Standard EN ISO/IEC 17025:2005. The examination was organised on the basis of the examination requirements of Academia TUV Rheinland Romania.
- 2) Certificate with registered no. TAR AK-58-2010 emitted by TUV Austria Romania. Certificate acknowledging completing and undertaking the examination on 12.02.2010 for the course „Internal auditor for testing and calibration laboratories in agreement with the requirements of the ISO 17025:2005 and ISO 19011:2002 standards”.

7 Reviewer/Expert of project proposals and articles in ISI quoted journals

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

PN-II-PT-PCCA-2013-4 Action (peer review activity in 2013)

PN-II-RU-TE-2011-3 Action (peer review activity in 2014)

“Nucleu” Core Program (peer review activity in 2016)

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

Atmospheric Environment - Elsevier

Chemosphere - Elsevier

Environmental Science and Pollution Research - Springer

Journal of Membrane Science - Elsevier

International Journal of Environmental Analytical Chemistry - Taylor&Francis

Atmospheric Chemistry and Physics - Copernicus

Environmental Chemistry Letters - Springer

Atmospheric Research - Elsevier

Science of the Total Environment - Elsevier

Environmental Monitoring and Assessment - Springer

CLEAN - Soil, Air, Water - Springer

Journal of Liquid Chromatography and Related Technologies - Taylor&Francis

Malaysian Journal of Medical Sciences - Journal indexed in SciVerse Scopus

International Journal of Conservation Science - Index Copernicus

Acta Chimica Iasi-Romanian journals - De Gruyter

8 Research projects (coordinator, member)**International/national research projects****Coordinator (director) of international projects**

- 1) FP7/PEOPLE-MERG-CT-2007-203934. 2007-2010. Intensive Characterisation of Atmospheric Aerosols in the north-eastern Romania at various Urban Sites (ICAARUS). Environment and Sustainable Development. Global Change, Climate and Biodiversity. 45000,00 EUR
- 2) NATO ESP.EAP.CLG.98258/2007. 2007-2009. Chemical Composition of Atmospheric Aerosols in the North-Eastern Romania. EST Action. 20000,00 EUR
- 3) Bilateral Romania-Italy: C18002/09.01.2006. 2006-2008. 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). 15000,00 EUR from the Resort Romanian and Italian Ministeria
- 4) Bilateral Romania-Greece: C18873/28.12.2005. 2006-2007. Chemical Composition of Aerosols in an Urban Atmosphere (CCAUA). 12000,00 EUR from the Resort Greek Minister
- 5) Marie-Curie: FP-6/MEIF-CT-2005-009578. 2005-2007. Evaluation of the Climatic Impact of the Tropospheric Aerosols in the Mediterranean Area (ECITAMA). Environment and Sustainable Development. Global Change, Climate and Biodeversity. 136834,50 EUR

Coordinator (director) of national projects

- 1) PN-II-ID-PCE-2011-3-0471, 2011-2014, Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania (EVOLUTION-AIR), UEFISCDI - ROMANIA. 1050000 RON (241000,00 EUR)

Member of international projects

- 1) EVR1-CT-2001-40013. 2002-2004. Improvements and Access to a Large Simulation Chamber (IALSI). Environment and Sustainable Development. Global Change, Climate and Biodiversity.
- 2) EVK2-CT-1999-00033. 2000-2003. Evaluation of the Climatic Impact of Dimethyl Sulphide (EL-CID). Environment and Sustainable Development. Global Change, Climate and Biodiversity
- 3) ENV4-CT97-0410. 1998-1999. Dimethyl Sulphide (DMS): Oxidation Mechanism in Relation to Aerosols and Climate (DOMAC). Environment and Sustainable Development. Global Change, Climate and Biodiversity
- 4) Projekt No.: 07 AF 22. 1998-2001. Yields of Aerosol Precursors Substances Formed by DMS-Oxidation as a Function of Atmospheric Conditions, GSF-Forschungszentrum für Umwelt und Gesundheit, Projektträger des BMBF für Umwelt und Klimaforschung, Germany

Member in projects with national and/or European funding

- 1) PN-II-RU-TE-2014-4-2461. 305/01.10.2015. 2015-2017. Studies on Substituted Aromatic Compounds under Simulated Atmospheric Conditions (SOS-AROMATIC). MENCS-UEFISCDI-ROMANIA
- 2) ERA-MIN/0005/2014. 2016-2017. Contract no.: 25/2015. ENVIronmentally friendly and efficient methods for extraction of Rare Elements from secondary sources (ENVIREE). MENCS-UEFISCDI-ROMANIA
- 3) POSCCE-A2-O2.2.1-2009-4, ID 901, SMIS 13984, Contract no.: 257/28.09.2010; Subject: Integrated research centre for environmental sciences investigation in the north-eastern region/CERNESIM. CNCSIS - ROMANIA
- 4) POSDRU/86/1.2/S/62307; Promoting the criminality scientific research in juridical activities; Contract no. E6677/18.08.2010
- 5) Bilateral Romania-Austria, Module III, 304/27.04.2009, 01.05.2009-30.11.2010, Sources and physico-chemical characteristics of atmospheric aerosols at central and east European sites, ARCEE.
- 6) PN II/405/2007-2010. Research on the retention of selected environmental radionuclides on heteropolioxometalates sorbents for subsequent ion chromatographic analysis. MCT-ROMANIA
- 7) INFRAS: 210/2.11.2004. 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 persistant organic pollutants (POPs). MCT-ROMANIA