

# CURRICULUM VITAE

## PUBLIC INFORMATION

### ARSENE Cecilia

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

 +40-232-201354 (institutional)  carsene@uaic.ro

**Gender** Female **Nationality** Romanian

## CURRENT POSITION / AFFILIATIONS

### Professor, PhD Habil.

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

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

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

## EDUCATION AND TRAINING

### 07/04/2014 Habilitation

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

### 07/2005 - 07/2007 Postdoctoral research

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

### 03/1998 – 03/2002 Doctoral studies

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

### 10/1995 - 06/1996 Master of Science

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

### 10/1990-06/1995 Bachelor degree

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

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

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

## WORK EXPERIENCE

## ACADEMIC CAREER

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

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

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

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

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

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

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

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

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

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

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

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

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

10/1996 – 02/1999 **Assistant**

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

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

## MANAGEMENT & LEADERSHIP

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

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

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

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

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

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

## RESEARCH ABROAD

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

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

07/2005 - 07/2007 Postdoctoral fellow

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

03/1998 - 03/2002 PhD fellow

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

## Research areas

Analytical Chemistry / Environmental Chemistry

Air, Soil, Water Pollution

Chromatographic and Mass Spectrometric Techniques (IC, HPLC, GC, HPLC-MS, GC-MS)

Atmospheric Aerosols Chemistry and Secondary Organic Aerosols

Gas Phase Reactivity

Health Impact

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

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

## OTHER RELEVANT PUBLICATIONS (research articles)

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

Chemistry and Physics, Volume 18, 5879–5904, Journal article, European Geosciences Union Publisher, DOI: 10.5194/acp-18-5879-2018, EID: 2-s2.0-85046017181

- 5) *Investigation of the dynamics and kinetics involved in saline aerosol generation under air erosion of pure and contaminated halide salts*, Ion Sandu; Romeo Iulian Olariu; Ioan Gabriel Sandu; Constantin Stirbu; Constantin Pascu; Viorica Vasilache; Davide Vione; [Cecilia Arsene\\*](#), (2015) *Journal of Aerosol Science*, Volume 81, 100-109, Journal article, Elsevier Science Direct Publisher, DOI: 10.1016/j.jaerosci.2014.12.003, EID: 2-s2.0-84920188676

## ADDITIONAL INFORMATION

### Publications and impact

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

The image displays two screenshots of author profiles. The top screenshot is from Scopus, showing the profile for Cecilia Arsene at Universitatea Alexandru Ioan Cuza, Iasi. It lists 2,226 citations, 75 documents, and an h-index of 20. A 'Document & citation trends' chart shows a steady increase in both documents and citations from 1999 to 2025. Two sample articles are shown: one on atmospheric breakdown kinetics and another on gas-phase ozone reaction kinetics. The bottom screenshot is from Web of Science, showing the profile for Cecilia Arsene with a Web of Science ResearcherID of AAK-1372-2020. It lists 76 total documents, 75 indexed publications, and an H-index of 19. A 'Metrics' section shows 2,061 total citations and 1,806 citing articles. A 'Web of Science Core Collection metrics' section shows 1,962 citations and 1,764 citing articles.

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

<https://www.webofscience.com/wos/author/record/1979326>  
<https://scholar.google.com/citations?hl=ro&user=iG411oIAAAA>  
<https://www.brainmap.ro/cecilia-arsene>  
[https://www.researchgate.net/profile/Cecilia\\_Arsene](https://www.researchgate.net/profile/Cecilia_Arsene)

- Other achievements** 5 books (2 in English, 3 in Romanian language, details in the CV's Annex)
- Invited talks 25
- Participation with 69 contributions as conferences / plenary lectures / oral talks / seminars in actions organised at international level (with proceedings)
- Participation with 207 contributions as conferences / plenary lectures / oral talks / seminars in actions organised at national level (with proceedings)
- Attracted funds and participation in research projects**
- Participation in 29 research programs
  - 8 projects coordinated as Director (5 from international programs and 3 from national programs), with a total of 20,042,220.49 EUR accessed financial amount.
- National and international recognition**
- Referee of scientific articles in more than 20 international journals (*Atmospheric Chemistry and Physics*, *Atmospheric Environment*, *Chemosphere*, *Atmospheric Research*, *Journal of Environmental Analytical Chemistry*, *Environmental Chemistry Letters*, *Journal of Liquid Chromatography & Related Technologies*, etc), for about 100 scientific articles
  - Member in the Editorial Board Journal of *Liquid Chromatography & Related Technologies*  
<https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=ljlc20>
  - Editor for 3 specially edited numbers in *Acta Chemica Iasi* ([https://www.chem.uaic.ro/ro/acta-chemica/acta\\_chemica.html](https://www.chem.uaic.ro/ro/acta-chemica/acta_chemica.html))
  - Referee/expert in the evaluation process of project proposals submitted within:
    - 1) PN-III-P2-2.1-PTE-2021 (peer review activity in 2021)
    - 2) PN-III-P1-1.2-PCCDI-2017 (peer review activity in 2017)
    - 3) PE-PN-III-P1-1.1-TE-2016 (peer review activity in 2017)
    - 4) PE-PN-III-P1-1.1-PD-2016 (peer review activity in 2017)
    - 5) Nucleu Core Program (peer review activity in 2016)
    - 6) PN-II-RU-TE-2011-3 Action (peer review activity in 2014)
    - 7) PN-II-PT-PCCA-2013-4 Action (peer review activity in 2013)
  - Evaluator/Examination of PhD thesis in other Romanian Universities:
    - 1) Babes-Bolyai University, Cluj Napoca, Romania (2)
    - 2) Gheorghe Asachi Technical University, Iasi, Romania (1)
    - 3) Grigore T Popa University of Medicine and Pharmacy, Iasi, Romania (1)
  - Evaluator/Examination of Habilitation thesis
    - 1) Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania (1)
    - 2) Babes-Bolyai University, Cluj Napoca, Romania (1)
  - Conferences chair, President of the organisation committee and member of Scientific committee for conferences:
    - 1) 2024 – present, Recent Advances in Natural Sciences Yield the Future for the European Citizens and Society, Ready for Europe – RARE, Conference Chair, <https://recent-air.uaic.ro/rare2025.php?menu=conferenceMenu>
    - 2) 2018 – 2024: IasiCHEM Conference, Iasi, Romania. President of the organising committee  
<https://www.chem.uaic.ro/files/File/iasichem/2024-CONFERINTA-FACULTATII-CHIMIE-CIRCULARA-2024-10-07.pdf>  
<https://www.chem.uaic.ro/files/File/2018-2019/conferinta-facultatii-de-chimie/2018-conferinta-facultatii-chimie-circulara-02.pdf>
    - 3) 2018 – 2025: The Scientific Session of Undergraduate, Master and PhD Students, President of the organisig committee  
[https://www.chem.uaic.ro/files/File/2024-2025/sccsmd-19-iunie-2025/circulara-2-scsmd\\_ro\\_2025.pdf](https://www.chem.uaic.ro/files/File/2024-2025/sccsmd-19-iunie-2025/circulara-2-scsmd_ro_2025.pdf)

[https://www.chem.uaic.ro/files/File/2017-2018/scsmd2018/circulara-2-scsmd\\_ro\\_09-05-2018.pdf](https://www.chem.uaic.ro/files/File/2017-2018/scsmd2018/circulara-2-scsmd_ro_09-05-2018.pdf)

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

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

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

## SKILLS / COMPETENCES

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

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

**Administrative skills**

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

**Teaching and training skills**

Lectures in:

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

- Coordination skills**

  - Coordination and supervision of 4 PhD students (1 cotutele), 3 with PhD Diploma
  - Coordination and supervision of 18 MSc students, 18 with MSc Diploma
  - Coordination and supervision of more than 25 undergraduate students: 25 with Bachelor Diploma
- Certificated abilities/competences**

  - Certificate for successful attendance of the “Application training session on the multi N/C 3100 and selected accessory modules”, by Analytic Jena certified to DIN EN ISO 9001:2000, 2013.
  - Certificate for successful attendance of the “Application training session on the contrAA 700 and novAA 350”, by Analytic Jena certified to DIN EN ISO 9001:2008, 2014.
  - Certificate for successful attendance of “Water Analysis-2011, The 7th South-Eastern European Interlaboratory Study”, June 2011-December 2011.
  - Certificate for successful attendance of the “General requirements for the competence of testing and calibration laboratories” course, according to the national standard SR EN ISO/CEI 17025:2005, identical with the European Standard EN ISO/IEC 17025:2005, TUV Rheinland Romania, 2010.
  - Certificate for successful attendance of „Internal auditor for testing and calibration laboratories” course, in agreement with the requirements of the ISO 17025:2005 and ISO 19011:2002 standards, TUV Austria Romania, 2010.
- Communication skills**

Ability to interpret and communicate scientific data; Ability to address scientific issues to a broad audience; Clear expression of requirements for the coordinated team members
- Other skills**

Mind flexibility/versatility, Honesty

## ANNEXES

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- Annex 01** List of publications and scientific contributions

Date,  
December 2025

Cecilia ARSENE, Professor

## Annex 1: List of publications and scientific contributions

### 1 Publication list (\* - corresponding author)

#### 1.1 Peer-reviewed publications

1. Iancu, C., Nita, C., Soroaga, L.V., Negru, A.G., Olariu, R.I., [Arsene, C.\\*](#), First chemical insights into airborne microbial communities isolated from ambient particulate matter in the Iasi urban area, north-eastern Romania, 2025, WOS:001567397400001, <https://doi.org/10.1080/10826076.2025.2554062>
2. D'Souza Metcalf, J., Winkles, R.K., Mapelli, C., McElroy, C.R., Roman, C., [Arsene, C.](#), Olariu, R.I., Bejan, I.G., Dillon, T.J., Atmospheric breakdown kinetics and air quality impact of potential "green" solvents, the oxymethylene ethers OME3 and OME4, *Atmos. Chem. Phys.*, 25, 9169–9181, 2025. <https://doi.org/10.5194/acp-25-9169-2025>
3. Mairean, C.P., Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Gas-phase ozone reaction kinetics of a series of cis-3-hexenyl esters under simulated atmospheric conditions, *Journal of Physical Chemistry A*, 129, 3696–3708, 2025. <https://doi.org/10.1021/acs.jpca.5c01004>
4. Amarandei, C., Negru, A.G., Iancu, C., Olariu, R.I., [Arsene, C.\\*](#), Seasonality, sources apportionment, human health risks assessments, and potential implications on the atmospheric chemistry of polycyclic aromatic hydrocarbons in size-segregated aerosols from a Romanian metropolitan area, *Chemosphere*, 368, 143738, 2024. <https://doi.org/10.1016/j.chemosphere.2024.143738>
5. Galon-Negru, A.G., Olariu, R.I., [Arsene, C.\\*](#), First insights into the new particle formation and growth at a north-eastern Romanian urban site, Iasi. Potential health risks from ultrafine particles, *Atmospheric Pollution Research*, 15(11), 102257, 2024. <https://doi.org/10.1016/j.apr.2024.102257>
6. Rusu (Vasilache), A.-M., Roman, C., Bejan, I.G., [Arsene, C.](#), Olariu, R.I., Gas-phase reaction kinetic study of a series of methyl-butenols with ozone under atmospherically relevant conditions, *Journal of Physical Chemistry A*, 128, 6745-6756, 2024. <https://doi.org/10.1021/acs.jpca.4c03653>
7. Mairean, C.P., Roman, C., [Arsene, C.](#), Bejan, I.G., Olariu, R.I., Gas-phase kinetics of a series of cis-3-hexenyl esters with OH radicals under simulated atmospheric condition, *Journal of Physical Chemistry A*, 128, 6274-6285, 2024. <https://doi.org/10.1021/acs.jpca.4c03069>
8. Rusu(Vasilache), A.M., Roman, C., Bejan, I.G., [Arsene, C.](#), Olariu, R.I., Gas-phase kinetic investigation of the OH-initiated oxidation of a series of methyl-butenols under simulated atmospheric conditions, *Journal of Physical Chemistry A*, 128, 4838-4849, 2024. <https://doi.org/10.1021/acs.jpca.4c02287>
9. Amarandei, C., Olariu, R.I., [Arsene, C.\\*](#), Offline analysis of secondary formation markers in ambient organic aerosols by liquid chromatography coupled with time-of-flight mass spectrometry, *Journal of Chromatography A*, 1702, 464092, 2023. <https://doi.org/10.1016/j.chroma.2023.464092>
10. Amarandei, C., Olariu, R.I., [Arsene, C.\\*](#), First insights into the molecular characteristics of atmospheric organic aerosols from Iasi, Romania: Behavior of biogenic versus anthropogenic contributions and potential implications, *Science of the Total Environment*, 877, 162830, 2023. [10.1016/j.scitotenv.2023.162830](https://doi.org/10.1016/j.scitotenv.2023.162830)
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### 1.3 Books / chapters

#### 1.3.1 Books

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### 1.4 Conferences / workshops

#### 1.4.1 Invited conferences

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2. [Arsene, C.\\*](#), Talking about scientific dissemination from a long-term perspective, Scientific Communication Session for Undergraduate, Master and PhD Students (SCSSMD), XVth Edition, Iasi, Romania, 27 June 2024.
3. [Arsene, C.\\*](#), MasterClass de Scriere și Publicare Academică, Universitatea Alexandru Ioan Cuza din Iași, 29 April.2024.
4. [Arsene, C.\\*](#), The beauty of analytical chemistry applied in the investigation of suspended in the air tiny particles or droplets. Unraveling the mysteries of "unknown" / Frumusețea Chimiei analitice aplicate în investigarea

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- [Arsene, C.\\*](#) (online talk), Chimia în Elita științelor aplicate în descoperirea Minunilor lumii și a Adevărului despre viață - Răspunsul ideal pentru Educație (CHEMARE), Cursuri online pentru studenți, Universitatea “Alexandru Ioan Cuza” din Iași, 23 Martie 2020. <https://www.uaic.ro/cursuri-deschise/>
  - [Arsene, C.\\*](#) (online talk), The importance of the laboratory quality management system in the academic curricula in developing appropriate student competences for our current societal needs, Virtual Scientific Workshop, Eurachem 2020, Quality Assurance for Analytical Laboratories in the University Curriculum, 15-15 July, 2020.
  - Galon-Negru, A.G., Amarandei, C., Olariu, R.I., [Arsene, C.\\*](#), Source apportionment of PM<sub>2.5</sub> mass concentrations in Iasi urban area, north-eastern Romania, European Aerosol Conference, 25-30 August 2019, Gothenburg, Sweden, oral communication, Source Apportionment Section, Program, pp. 22, O1-F5-A, 2019.
  - [Arsene, C.\\*](#), Olariu, R.I., Measurements in Iasi, Romania, COST Action CA16109 Working Group 1 Meeting, 05-06 March 2019, London, United Kingdom, oral talk, 06 March 2019.
  - [Arsene, C.\\*](#), Olariu, R.I., (Conference), AI-FORECAST project (PN-III-P4-ID-PCE-2016-0299) between prediction of the aerosol chemical composition and integration of Cernesim’s infrastructure in a European context, The XXXV-th Romanian Chemistry Conference, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, pp. 5, 02 – 05 October, 2018.
  - [Arsene, C.](#) (Invited talk), Challenges and achievements in analytical chemistry laboratories. Tropene alkaloids as plant-derived pharmaceuticals or ethnobotanical ingredients, 4<sup>th</sup> French-Romanian Colloquium in Medicinal Chemistry, 05-07 October, 2017.
  - [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.
  - [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, RICCE 2017, 06-09 September 2017, Poiana Brasov, Romania, S3-209, 2017.
  - [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.
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  - [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.
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  - [Arsene, C.](#) (Invited talk), Non-methane hydrocarbons variability in the Eastern Mediterranean, Advanced Research Workshop, Marrakesch, Morocco, 2006. Regional Climate Variability and its Impacts in the Mediterranean Area, Advanced Research Workshop, Marrakech, Morocco, 23 – 27 November 2006.

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#### 1.4.2 Abstracts and conference proceedings

##### 1.4.2.1 Abstracts and conference proceedings for international actions

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2. Roman C., [Arsene C.](#), Olariu R.I., Bejan I.G., Atmospheric chemistry of furans initiated by OH radicals, the 27<sup>th</sup> Gas Kinetics Symposium (ICGK2024), Leeds (UK), 15-18 July, **2024**.
3. Negru, A.G., Roman, C., Amarandei, C., [Arsene, C.](#), Olariu, R.I., Investigations of potentially harmful limonene photooxidation products under NO<sub>x</sub> and NO<sub>x</sub>-free atmospheric simulated conditions, SGEM International Scientific Conferences on Earth & Planetary Sciences, Extended Scientific Sessions Green Sciences for Green Life, 28 November – 01 December 2023, Vienna, Austria.
4. Roman, C., Amarandei, C., Negru, A.G., [Arsene, C.](#), Bejan, I.G., Jamar De Bolsee, M., Dusanter, S., Olariu, R.I., Tomas, A., Atmospheric reactivity of ketolimonene: ozone kinetics, reaction products and SOA formation, Goldschmidt 2023 Conference, 09-14 July 2023, Lyon, France. <https://conf.goldschmidt.info/goldschmidt/2023/meetingapp.cgi/Paper/15870>
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10. Amarandei, C., Galon Negru, A.G., Olariu, R.I., [Arsene C.\\*](#), Investigation of size-resolved anthropogenic secondary organic aerosol molecular tracers derived from aromatic hydrocarbons, International Conference on Aerosol Science and Technology ICAST 2020, within IRC 2020, IX International Conference Proceedings, ISSN online 1307-6892, Conference Proceedings, Prague Czechia, Part I, September 03-04, pp. 39, 2020. <https://panel.waset.org/conference/2020/09/prague/program>
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## 2 Research projects

### 2.1 Research projects

<b>Coordinator / Project director</b>				
<b>International</b>				
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
<b>National</b>				
1	POC 2014-2020	Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici, Contract nr. 322/04.09.2020, MySMIS 127324	2020-2023	89.570.958,10 lei 19,371,719.82 EUR
2	PN-III-P4-ID-PCE-2016-0299 37/2017 UEFISCDI, Romania	Assessing the Anthropogenic and Biogenic Emissions Impact on Atmospheric Urban Fine Organic Particles in Eastern Romania. Solving the Challenge of the Aerosols Missing Mass as a One Step Forward Tool (AI-FORECAST)	2017-2019	850000 RON 200,333.33 EUR
3	PN-II-ID-PCE-2011-3-0471 UEFISCDI, Romania	Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania (EVOLUTION-AIR)	2011-2016	1050000 RON 241.333.34 EUR
<b>Member</b>				
<b>International</b>				
1	INFRAIA-03-2020	Integrating and Opening Research Infrastructures of European Interest ATMO-ACCESS Solutions for Sustainable Access to Atmospheric Research Facilities		2021-2024
2	COST Action CA16109	COLOSSAL, Chemical On-Line cOmpoSition and Source Apportionment of fine aerosols		2017-2020
3	EC-DGRI, Grant No. 730997 H2020-INFRAIA-2016-	EUROCHAMP-2020		2016-2021

2017/H2020-INFRAIA-2016-1			
4	PN-III-P3-3.1-PM-RO-FR-2016-0047 Bilateral Romania-France, BRANCUSI 90BM/2017	Ozonolysis of oxygenated unsaturated compounds of biogenic origin in the atmosphere: from kinetics to secondary organic aerosol formation (OzOA)	2017-2018
5	EVR1-CT-2001-40013 Environment and Sustainable Development	Improvements and Access to a Large Simulation Chamber (IALSI)	2002-2004
6	EVK2-CT-1999-00033 Environment and Sustainable Development	Evaluation of the Climatic Impact of Dimethyl Sulphide (EL-CID)	2000-2003
7	ENV4-CT97-0410 Environment and Sustainable Development	Dimethyl Sulphide (DMS): Oxidation Mechanism in Relation to Aerosols and Climate (DOMAC)	1998-1999
7	Projekt No.: 07 AF 22 GSF-Forschungszentrum für Umwelt und Gesundheit, Projektträger des BMBF für Umwelt und Klimaforschung, Germany	Yields of Aerosol Precursors Substances Formed by DMS-Oxidation as a Function of Atmospheric Conditions	1998-2001
<b>National</b>			
1	POCU/380/6/13/ – Sprijin pentru doctoranzi si cercetători post-doctorat	Doctoranzi și cercetători postdoctorat pregătiți pentru piața muncii	02.2019-12.2020
2	Proiect 34PFE/19.10.2018	Dezvoltarea capacității de inovare și creșterea impactului cercetării de excelență la UAIC, proiect de tip Proiecte de dezvoltare instituțională – Proiecte de finanțare a excelenței în CDI finanțat de Ministerul Cercetării și Inovării (MCI)	10.2018-11.2020
3	CNFIS-FDI-2018-0102	Cercetare de Excelență în România în cadrul Centrului CERNESIM	07.2018-12.2018
4	PN-III-P4-ID-PCE-2016-0270 38/2017	Ozonoliza ca sursă de formare a aerosolilor organici secundari. Investigații de laborator într-o cameră de simulare a atmosferei (OLFA-ROA)	2017-2019
5	PN-III-P4-ID-PCE-2016-0807 118/2017	Investigatii asupra chimiei atmosferice a hidrocarburilor oxigenate ciclice (IGAC-CYCLO)	2017-2019
6	PN-III-P2-2.1.-PED-2016-0924 78PED/03.01.2017	Development and validation of a temperature regulated environmental chamber for studying atmospheric oxidation processes and mechanisms (DEV-TREC)	2017-2018
7	PN-III-P2-2.1.-PED-2016 86PED/2017	Atmospheric Simulation Chamber-New Research Facility to Understand Sesquiterpene Oxidation (CHARUSO)	2017-2018
8	PN-II-RU-TE-2014-4-2461 305/01.10.2015 UEFISCDI-Romania	Studies on Substituted Aromatic Compounds under Simulated Atmospheric Conditions (SOS-AROMATIC)	2015-2017
9	ERA-MIN/0005/2014 25/2015 UEFISCDI-Romania	ENVIRONMENTALLY friendly and efficient methods for extraction of Rare Elements from secondary sources (ENVIREE)	2016-2017
10	POSCCE-A2-O2.2.1-2009-4, ID 901, SMIS 13984 257/28.09.2010 CNCIS - Romania	Integrated research centre for environmental sciences investigation in the north-eastern region/CERNESIM	2010-2014
11	POSDRU/86/1.2/S/62307 E6677/18.08.2010	Promoting the criminality scientific research in juridical activities	2010-2013
12	Bilateral Romania-Austria Module III	Sources and physico-chemical characteristics of atmospheric aerosols at central and east European sites,	2009-2010

	304/27.04.2009	ARCEE	
13	PN II/405/2007-2010 MCT-Romania	Research on the retention of selected environmental radionuclides on heteropolioxometalates sorbents for subsequent ion chromatographic analysis	2007-2010
14	INFRAS: 210/2.11.2004 MCT-Romania	Development of the infrastructure for the monitoring and biomonitoring of environmental toxic compounds with the assessment of their toxic effect on living organisms. Certification of a laboratory for the analysis of heavy metals and of selected persistent organic pollutants (POPs)	2004-2007

## 2.2 Reviewer (selective)

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

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

Date,  
December 2025

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