

PERSONAL INFORMATION

Luminița Mărmureanu



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WORK EXPERIENCE

Mar 2009 – 2022 Senior Researcher (CSII)

National Institute of Research and Development for Optoelectronics INOE2000
str. Atomistilor 409, Măgurele, România

- Main research activity covers experimental and theoretical research focused on atmospheric aerosol chemical and physical characteristics, source profiling, and data analyses using spectrometry, spectroscopy and optical methods;
- led national and international projects as leader/responsible in the fields of atmospheric pollution; evaluation through new methods and modelling algorithms
- involved in more than 20 national and international projects focused on aerosols and gaseous assessment; member in implementation team of research infrastructure projects financed on structural funds;
- wrote national and international project proposals;
- participation at scientific events; part of the organizing team for workshops and several summer-schools in the framework of RADO (Romanian Atmospheric research 3D Observatory);
- principal investigator of the Măgurele ACTRIS Aerosol in situ station;
- ACTRIS (PN-III-P3-3.6-H2020-2016-0058) – The Research Infrastructure (RI) ACTRIS – Aerosols, Clouds and Trace Gases – is the pan-European RI that consolidates activities amongst European partners for observations of aerosols, clouds, and trace gases and for the understanding of the related atmospheric processes, to provide RI services to wide user groups.

Jan 2009 – Jun 2013 Freelancer (Self-employed Person-PFA)

Biodiversity expert- Natura 2000 projects, contracts with Alba and Buzău counties Administration

Main activity: Impact assessment of plans and projects implemented in the Natura 2000 sites (Siriu, Penteleu, Frumoasa)

March 2005 – March 2009 Ministry of Environment and Sustainable Development

Biological Diversity Conservation and Biosafety Directorate

Main activity:

- expertise of Natura 2000 program implementation and certificates;
- maintaining national secretariat for international conventions regarding biodiversity;
- organise and coordinates nature conservation activities and contribute to harmonise the national legislation with European Union legislation in nature protection field;
- analyze studies regarding evaluating impact assessment to authorize projects and plans that could affect the environment or biological diversity.

Jan 2001 – May 2005 Environmental Education Coordinator

“Information and Documentation Center on Environmental Issues”, Splaiul Independenței, Bucharest, Romania

Main activity: *Students adviser on environmental issues*

Dec 2000 – Dec 2002 High school teacher

Saint Pantelimon High-School, Hambarului Street, Bucharest, Romania

Main activity, *Teacher for Biology, Ecology and Microbiology, Rewards: For ecological activities from Mayor of sector 2, third place at national level contest for ecological projects*

EDUCATION

2012 PhD - Thesis Title: “Contributions to Support System for the Environment Development Management: Public Environmental Awareness” supervisor Prof. Angheluță Vădineanu

Systemic Ecology and Sustainable Development, Faculty of Biology, University of Bucharest, București, România

2000–2002 Master in Ecology

Systemic Ecology and Sustainable Development, Faculty of Biology, University of Bucharest, București, România

1996–2000 Bachelor in Environmental sciences

Systemic Ecology and Sustainable Development, Faculty of Biology, București, România

PERSONAL SKILLS

Organisational/managerial skills – member of the Romanian Association of Meteorology and Education (ARMAE) (2021 – Present)

Communication skills – Interviews: I have given radio (e.g., *Radio Romania Cultural*), television (e.g., *ARTE TV, Digi24, TVR2*), online news publications (e.g., *Stiinta si tehnica*), interviews about air pollution.

Reviewer/Member in Editorial Boards – Reviewer: I reviewed manuscripts for *Atmospheric Chemistry and Physics, Atmosphere, International Journal of Environmental Research and Public Health, Toxics, Sensors,*

Mother tongue Romanian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Computer skills – IgorPro, Office , R, L^AT_EX, CorelDRAW, Adobe Illustrator

Driving licence B

RESEARCH PROJECTS

Coordinator/Partner team leader

- *WASTE- Service contract for analyzing the effect of residential solid waste burning on ambient air quality in Central and Eastern Europe and potential mitigation measures* (euro 120,000) founded through DG Environment: 07.027737/2018/788206/SER/ENV.C.3 (2018 - 2021)-Responsible for INOE 2000 team.
- *Development of quadrupole and multipole ion trap based mass spectrometers for optical characterization and chemical analysis of atmospheric aerosol particles* founded by STAR/Project No.136/2017, 2017 – 2019, (2017–2019)
- *Aerosol properties retrieval from remote sensing spectroscopic measurements* founded by STAR/Project No.162/2017, (2017–2019)
- *Model Computațional pentru Predictia Emisiilor de “Biomass Burning” si impactul lor* founded by PN-II-PT-PCCA-2013-4-1798 No 309-01/07/2014-2016, (2014–2016)

PUBLICATIONS (SELECTED)

- [1] Gang Chen, Francesco Canonaco, Anna Tobler, Wenche Aas, Andres Alastuey, James Allan, Samira Atabakhsh, Minna Aurela, Urs Baltensperger, Aikaterini Bougiatioti, Joel F. De Brito, Darius Ceburnis, Benjamin Chazneau, Hasna Chebaicheb, Kaspar R. Daellenbach, Mikael Ehn, Imad El Haddad, Konstantinos Eleftheriadis, Olivier Favez, Harald Flentje, Anna Font, Kirsten Fossum, Evelyn Freney, Maria Gini, David C Green, Liine Heikkinen, Hartmut Herrmann, Athina-Cerise Kalogridis, Hannes Keernik, Radek Lhotka, Chunshui Lin, Chris Lunder, Marek Maasikmets, Manousos I. Manousakas, Nicolas Marchand, Cristina Marin, **L. Mărmureanu**, Nikolaos Mihalopoulos, Griša Močnik, Jaroslav Nečki, Colin O’Dowd, Jurgita Ovadnevaite, Thomas Peter, Jean-Eudes Petit, Michael Pikridas, Stephen Matthew Platt, Petra Pokorná, Laurent Poulain, Max Priestman, Véronique Riffault, Matteo Rinaldi, Kazimierz Róžański, Jaroslav Schwarz, Jean Sciare, Leïla Simon, Alicja Skiba, Jay G. Slowik, Yulia Sosedova, Iasonas Stavroulas, Katarzyna Styszko, Erik Teinmaa, Hilka Timonen, Anja Tremper, Jeni Vasilescu, Marta Via, Petr Vodička, Alfred Wiedensohler, Olga Zografou, María Cruz Minguillón, and André S. H. Prévôt. *European Aerosol Phenomenology – 8: Harmonised Source Apportionment of Organic Aerosol using 22 Year-long ACSM/AMS Datasets*. 2022. URL: <https://arxiv.org/abs/2201.00579>.
- [2] M. Adam, K. Fragkos, S. Solomos, L. Belegante, S. Andrei, C. Talianu, **L. Mărmureanu**, B. Antonescu, D. Ene, V.Nicolae, and V. Amiridis. “Methodology for Lidar Monitoring of Biomass Burning Smoke in Connection with the Land Cover”. In: *Remote Sensing* 14.19 (2022).
- [3] B. Antonescu, **L. Mărmureanu**, J. Vasilescu, C.A. Marin, S. Andrei, M. Boldeanu, D. Ene, and A. Țileă. “A 41-years bioclimatology of thermal stress in Europe”. In: *Int. J. Climatol.* 41 (2021), pp. 3934–3952.
- [4] A. Hoffer, A. Toth, B. Jancsek-Turoczi, A. Machon, A. Meiramova, A. Nagy, **L. Mărmureanu**, and A.Gelencser. “Potential new tracers and their relative emission factors for burning household waste in stoves”. In: *Atmos. Chem. Phys.* 21 (2021), pp. 317855–17864.
- [5] A. Cuesta-Mosquera, G. Močnik, L. Drinovecand, T. Müller, S.Pfeifer, M. C. Minguillón, B.Briel, P.Buckleyand V. Dudoitis, J.Fernández-García, M. Fernández-Amado, J. Ferreira De Brito, V. Riffault, H. Flentje, E. Heffernan, N. Kalivitis, A.-C. Kalogridis, H. Keernik, **L. Mărmureanu**, and et al. “Intercomparison and characterization of 23 Aethalometers under laboratory and ambient air conditions: procedures and unit-to-unit variabilities”. In: *Atmos. Meas. Tech.* 14 (2021), pp. 3195–3216.
- [6] Boldeanu M. H. Cucu, C. Burileanu, and **L. Mărmureanu**. “Automatic Pollen Classification Using Convolutional Neural Network”. In: *44th International Conference on Telecommunications and Signal Processing* (2021).
- [7] **L. Mărmureanu**, J. Vasilescu, J. Slowik, A.S.H. Prévôt, C.A. Marin, B.Antonescu, A. Vlachou, A. Nemuc, A. Dandocsi, and S. Szidat. “Online Chemical Characterization and Source Identification of Summer and Winter Aerosols in Măgurele, Romania”. In: *Atmosphere* 11 (2020), p. 385.

- [8] A. Hoffer, B. Jancsek-Turóczy, Á. Tóth, G. Kiss, A. Naghiu, E.A. Levei, **L. Mărmureanu**, A. Machon, and A. Gelencsér. "Emission factors for PM10 and polycyclic aromatic hydrocarbons (PAHs) from illegal burning of different types of municipal waste in households". In: *Atmos. Chem. Phys.* 20 (2020), pp. 16135–16144.
- [9] **L. Mărmureanu**, C. A. Marin, S. Andrei, B. Antonescu, D. Ene, M. Boldeanu, J. Vasilescu, C. Vițelaru, O. Cadar, and E. Levei. "Orange Snow—A Saharan Dust Intrusion over Romania During Winter Conditions". In: *Remote Sensing* 21 (2019), p. 805.
- [10] E. Freney, Y. Zhang, P. Croteau, T. Amodeo, L. Williams, F. Truong, J-E. Petit, J. Sciare, R. Sarda-Esteve, N. Bonnaire, T. Arumae, M. Aurela, A. Bougiatioti, N. Mihalopoulos, E. Coz, B. Artinano, V. Cretn, T. Elste, L. Heikkinen, L. Poulain, A. Wiedensohler, H. Herrmann, M. Priestman, A. Alastuey, I. Stavroulas, A. Tobler, J. Vasilescu, N. Zanca, M. Canagaratna, C. Carbone, H. Flentje, D. Green, **L. Mărmureanu**, and M. Maasikmets et al. "The second ACTRIS inter-comparison (2016) for Aerosol Chemical Speciation Monitors (ACSM): Calibration protocols and instrument performance evaluations". In: *Aerosol Science And Technology* (2019), pp. 830–842.
- [11] **L. Mărmureanu**, J. Vasilescu, C. A. Marin, and D. Ene. "Aerosol source assessment based on organic chemical markers". In: *Revista de Chimie* 68 (2017).
- [12] **L. Mărmureanu**, J. Vasilescu, A. Nemuc, and L. Belegante. "Aerosol Characterization Based on Chemical Composition and Optical Properties". In: *Rom. J. Phys.* 61 (2016), pp. 1635–1650.

Citations – 170 citations / *h*-index 7 according to Web of Science and 239 citations / *h*-index 9 according to Google Scholar.