

Oana - Cristina MODOI

PERSONAL DETAILS

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EXPERTISE & RESEARCH INTEREST

- ✓ Research Interests in the field of Waste Management and Reduction, Wastewater management, Circular Economy & Ecodesign; Risk & Environmental Impact Assessment.
- ✓ <https://orcid.org/0000-0003-0504-446X>
- ✓ [Researcher ID: F-9732-2013](#)
- ✓ [Scopus Author ID: 41461515500](#)
- ✓ <https://scholar.google.ro/citations?user=NwZpzBcAAAAJ&hl=en>

WORK EXPERIENCE

2012- to present, Assistant Professor (Lecturer)

Babeş-Bolyai University Cluj-Napoca, Faculty of Environmental Science and Engineering,

2005 –2012, Researcher

Babeş-Bolyai Cluj-Napoca, Faculty of Environmental Science and Engineering.

For 4 months in 2011, I worked as a geochemistry researcher in Norway at the *Kjeøy Research and Education Centre* (Environmental Geochemistry), <https://www.kjeoy.no/research>

2001 –2005, Environmental Expert / Independent consultant

Environmental Consulting as a freelance professional.

1998 – 2001, Assistant Researcher

National Institute for Research and Development in Mine Safety and Protection Explosions, Petroşani, Hunedoara County.

1992 – 1998, Electro-mechanical Engineer

Uricani Mine, Hunedoara County, Romania.

EDUCATION AND TRAINING

2011-2015, Bachelor's degree in psychology

Babeş-Bolyai University Cluj Napoca, Faculty of Psychology and Educational Sciences

2003-2010, PhD

Babeş-Bolyai University Cluj Napoca, Faculty of Environmental Science and Engineering

2004-2005, Master's degree in management.

Babeş-Bolyai University Cluj Napoca, Faculty of European Studies.

1997–1998, master's degree in environmental engineering

Technical University of Petroşani, Faculty of Mines

1987 – 1992, Academic degree in engineering

Technical University Petroşani, Faculty of Mining Machines and Installations.

SCOLARSHIPS & PROFESIONAL QUALIFICATIONS

- Nova University Lisbon, Innovation Challenges for Researchers, Industry-Driven Solutions for Ocean Challenges, Eutopia More, 4-10 Mai, 2025.
- *Academic Writing in English for Grant Applications & Academic Papers*, 12 May – 9 June 2022.
- Academic Teaching Excellence Course, 35 hours, 16-20 September 2019.

TEACHING / SUPERVISING EXPERIENCE

- Courses taught at Babes Bolyai University: Waste management (basis), Waste management, treatment and recovery, Metallic waste recovery technologies, Circular economy and life cycle assessment, Ecological materials and technologies.
- Presentation during training courses for Romanian translators or translators from Romanian at EU institutions: Waste management and recycling, November 2023.
- Lecturer at summer schools, community meetings organized at city level, open courses organized by industrial partners (Emerson,
- Supervising master dissertation and bachelor thesis for students involved in Environmental Sciences & Environmental Engineering academic programs.

PROFESIONAL MEMBERSHIP

Member of Integrated Disaster Risk Management (IDRiM) Society.

Member of the Romanian Environmental Association.

Member of the Socio-Cultural Council of Babeş-Bolyai University Cluj Napoca

Member of the Research Institute for Sustainability and Disaster Management based on High Performance Computing, Babeş-Bolyai University Cluj Napoca.

PERSONAL SKILLS

Languages

Romanian - native

English – independent user C1

French – intermediate user B1.

German – basic user A2.

SELECTED LIST OF PUBLICATION

- Llanos-Lizcano R, Senila L, Modoi OC. Evaluation of Biochemical Methane Potential and Kinetics of Organic Waste Streams for Enhanced Biogas Production. *Agronomy*. 2024; 14(11):2546. WOS:001367292200001.
- Modoi, OC; Mihai, FC, 2022, E-Waste and End-of-Life Vehicles Management and Circular Economy Initiatives in Romania, DOI 10.3390/en15031120, WOS:000756224600001
- Brahaita, ID; Pop, IC; Baciu, C; Mihaiescu, R; Modoi C.; Popita, G.; Truta, RM, 2017, The Efficiency of Limestone in Neutralizing Acid Mine Drainage - A Laboratory Study, WOS:000402360400004
- Bizo, ML; Roba, C; Levei, EA; Hoaghia, MA; Modoi, C.; Ozunu, A., 2015, Comparison of FAAS and XRF performance for metal monitoring in brownfields, DOI 10.30638/eemj.2015.268, WOS:000369099900003
- Bizo, ML; Levei, EA; Kothe, E; Senila, M.; Modoi, C.; Ozunu, A, 2015, Chemical Assessment Of Soil Quality for Ecological Remediation Strategies, WOS:000363495300020
- Modoi, OC; Roba, C; Torok, Z; Ozunu, A., 2014, Environmental Risks Due to Heavy Metal Pollution of Water Resulted from Mining Wastes in NW Romania, WOS:000347161400026
- Modoi, OC; Vlad, SN; Stezar, IC; Manciuila; Gagi, AC; Marginean, S, 2011, Integrated Tailing Dams Management in Baia Mare Area, Romania, DOI10.30638/eemj.2011.007, WOS:000288875300008.
- Ozunu, A; Stefanescu, L.; Costan, C; Miclean, M.; Modoi, C; Vlad, SN, 2009, Surface Water Pollution Generated by Mining Activities. Case Study: Aries River Middle Catchment Basin, Romania, DOI: 10.30638/eemj.2009.114, WOS:000269811500031.

- Modoi, OC; Stefanescu, L; Marginean, S.; Arghius, C.; Ozunu, A., 2009, Management of Risks Associated with Mining Wastes (Tailings Dams and Waste Heaps), DOI: 10.3233/978-1-58603-948-6-130, WOS:000342304600013.

CONFERENCE PAPER

- OC Modoi, C., Dascăl D., Roba C., Bălc R., 2022, On the Importance of Public Views Regarding the Environmental Impact of Plastic Pollution in Cluj County, Romania, **International Multidisciplinary Scientific GeoConference: SGEM, Sofia**, DOI:10.5593/sgem2022V/4.2/s18.11
- Modoi, C., Ajtai, I., Roba, C., Mereuță, A., 2021, Analysis Of The Near Infrared (NIR) Spectroscopy Method Used for Textile Waste Sorting, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM , 2021, 21(5.1), pp. 11–17
- Modoi, OC, Vescan, A., 2021, [Evaluation of the barriers and of the motivating factors regarding the e-waste management behaviors of the Romanian university students](#), 11th International Conference on Environmental Engineering and Management: Environmental Engineering for a Clean and Healthy Planet Conference Abstracts Book : 8 - 10 of September 2021 Muttenz Switzerland, ISSN 2457-7049
- Modoi, OC, Vescan A., 2021, Environmental Protection and Social Entrepreneurship Activities: The Vision of the Young People, *Environ. Sci. Proc.* 2021, 9(1), 15; <https://doi.org/10.3390/envirosci2021009015>, Proceedings of [Innovations-Sustainability-Modernity-Openness Conference \(ISMO'21\)](#), Poland.
- Modoi, O.-C., Ajtai, N., Roba, C., Ciobotariu, C., Mihaiescu, T., Assessment of heavy metals leaching from different types of waste mixed with molasses, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 2017, 17(11), pp. 767–772
- Bizo, ML, Modoi, OC, Botezan, C., Levei, EA, Ozunu, A., 2014, Mobility of Lead in Soils Polluted by Non-ferrous Metallurgical Plant in Northwestern Romania, The Third Edition of the International Conference Agriculture for Life, Life for Agriculture, Scientific Papers-Series E-Land Reclamation Earth Observation & Surveying Environmental Engineering, WOS:000416376600017.

BOOK CHAPTERS

Todoran, S., & Modoi, O. C. (2024). Cluj Napoca - benefits and risks of urban development. Chapter in Nia, H. A., & Rahbarianyazd, R. (Eds.), *Innovative Approaches to Cultural Heritage and Sustainable Urban Development: Integrating Tradition and Modernity*, (pp. 115-127) Cinius Yayınları. DOI: <https://doi.org/10.38027/N10ICCAUA2024EN0179>

O.C. Modoi – Integrated management of the mining waste resulting from the ores exploitation associated to the Baia Mare metallogenetic province, 2021, Chapter in *Mediul ca risc si urgenta – Environment as risk and emergency*, (Editors: Philippe Burny, L.C. Baci, C.S. Botezan, D.C. Petrescu, G. Vlad, Ed. Valea Verde Sighetu Marmăției, ISBN 978-606-8834-42-9.

F. C. Mihai, **O.C. Modoi**, A.E. Gheorghica, Petra Schneider, Ana-Maria Schiopu, A. Andrei, M. D. Roman, Miruna Cervenciuc, Gabriela Biali, M. Eva, Andreea Diana Damian, V. Pelin, Gabriela Bobeanu, I. Muntele, (2020), The role of the circular economy in improving the quality of life in Romania, chapter in: *Quality of life and the resilience of geographical systems*; Publisher: "Alexandru Ioan Cuza" University Publishing House of Iași, ISBN: 978-606-714-606-6, (in Romanian).

O.C. Modoi, Al. Ozunu – Practical applications in the field of the solid waste management, 2012, (Ro) EFES Publishing House, Cluj Napoca.

RESEARCH PROJECTS

2024 – Position in the project: Expert

Coordinated prevention and disaster management activities on sterile waste management facilities by authorities, municipalities and other stakeholders for transnational hazard and risk reduction solutions, European project implemented in partnership (Interreg).

2021-2022 – Position in the project: Expert

Le Pont Durable – Social entrepreneurship and the promotion of sustainable development, program funded by L'Agence Universitaire de la Francophonie, AUF. Partners: Babeş-Bolyai University, the Beyond Association and the Better Speech Coach.

- 2019- 2023 – Position in the project: Expert counsellor
Proiect Rose –AG249 SGU/NC/II, "Fii deștept, rămâi student (ΦSTUD)", Expert counsellor
- 2016, Position in the project: Expert
Disaster risk assessment at national level (Ro-Risk), Partner Babeş-Bolyai University Cluj
- 2015, Position in the project: Expert (short term)
Improving the interaction between the university and the business environment, Partner Babeş-Bolyai University Cluj.
- 2014, Position in the project: Project Manager
Strategic Environmental Assessment for the project " Land use planning for the area Paltinis-Cindrel", Sibiu County, Romania.
- 2009-2011, Position in the project: Researcher
Innovative technology for remediation of the contaminated soil by the metallurgical industry, RESOLMET, CEEEX Project
- 2009, Position in the project: Expert (short term).
Join Physicists in Festival, My Physics, My World (MyPhy), International Project no 244978, European Commission II, FP7 People, Faculty of Environmental Sciences and Engineering as a partner in the project.