

# Lista de lucrări

## A) Lucrări relevante

1. Radovici, Andrei, Horațiu Ștefănie, Iulia Ajtai, Alexandru Mereuță, Camelia Botezan, Alexandru Ozunu, and Nicolae Ajtai. 2023. “Is the Analysis of Territorial Compatibility in the Vicinity of Road Hazmat Transport Routes a Necessity for Developing Countries? A Case Study of Romania.” *Heliyon* 9 (9): e19948. <https://doi.org/10.1016/j.heliyon.2023.e19948>.
2. Stavropoulou, Foteini, Katarina Vinković, Bert Kers, Marcel De Vries, Steven Van Heuven, Piotr Korbeń, Martina Schmidt, et al. 2023. “High Potential for CH<sub>4</sub> Emission Mitigation from Oil Infrastructure in One of EU’s Major Production Regions.” *Atmospheric Chemistry and Physics* 23 (18): 10399–412. <https://doi.org/10.5194/acp-23-10399-2023>.
3. Ștefănie, Horațiu Ioan, Andrei Radovici, Alexandru Mereuță, Viorel Arghiuș, Horia Cămărașan, Dan Costin, Camelia Botezan, Camelia Gînscă, and Nicolae Ajtai. 2023. “Variation of Aerosol Optical Properties over Cluj-Napoca, Romania, Based on 10 Years of AERONET Data and MODIS MAIAC AOD Product.” *Remote Sensing* 15 (12): 3072. <https://doi.org/10.3390/rs15123072>.
4. Ajtai, Iulia, Horațiu Ștefănie, Cristian Maloș, Camelia Botezan, Andrei Radovici, Maria Bizău-Cârstea, and Călin Baciu. 2023. “Mapping Social Vulnerability to Floods. A Comprehensive Framework Using a Vulnerability Index Approach and PCA Analysis.” *Ecological Indicators* 154 (October): 110838. <https://doi.org/10.1016/j.ecolind.2023.110838>.
5. Mereuță, A, N Ajtai, A T Radovici, N Papagiannopoulos, L T Deaconu, C S Botezan, H I Stefanie, D Nicolae, and A Ozunu. 2022. “A Novel Method of Identifying and Analysing Oil Smoke Plumes Based on MODIS and CALIPSO Satellite Data.” *Atmospheric Chemistry and Physics* 22 (7): 5071–98. <https://doi.org/10.5194/acp-22-5071-2022>.
6. Korbeń, Piotr, Paweł Jagoda, Hossein Maazallah, Johannes Kammerer, Jarosław M. Nęcki, Julia B. Wietzel, Jakub Bartyzel, et al. 2022. “Quantification of Methane Emission Rate from Oil and Gas Wells in Romania Using Ground-Based Measurement Techniques.” *Elementa: Science of the Anthropocene* 10 (1): 00070. <https://doi.org/10.1525/elementa.2022.00070>.
7. Botezan, Camelia S, Andrei Radovici, and Iulia Ajtai. 2022. “The Challenge of Social Vulnerability Assessment in the Context of Land Use Changes for Sustainable Urban Planning; Case Studies: Developing Cities in Romania.” *Land* 11 (1). <https://doi.org/10.3390/land111010017>.
8. Ajtai, Nicolae, Mereuta Alexandru, Stefanie Horatiu, Radovici Andrei, Botezan Camelia, Zawadzka-Manko Olga, Iwona S. Stachlewska, Stebel Kerstin, and Zehner Claus. 2021. “SEVIRI Aerosol Optical Depth Validation Using AERONET and Intercomparison with MODIS in Central and Eastern Europe.” *Remote Sensing* 13 (5): 844. <https://doi.org/10.3390/rs13050844>.
9. Ajtai, Nicolae, Horatiu Stefanie, Camelia Botezan, Alexandru Ozunu, Andrei Radovici, Rodica Dumitache, Amalia Iriza-Burcă, Andrei Diamandi, and Marcus Hirtl. 2020. “Support Tools for Land Use Policies Based on High Resolution Regional Air Quality

- Modelling.” Land Use Policy 95 (June): 103909. <https://doi.org/10.1016/j.landusepol.2019.03.022>.
10. Radovici, Andrei, Emil Roman, Zoltán Török, and Alexandru Ozunu. 2016. “A Risk Assessment Study for Local Critical Infrastructures Used in Hazmat Transportation.” STUDIA UBB CHEMIA LXI, 3 (Tom II): 379–89.

## B) Teza de doctorat

Titlul tezei: „Infrastructuri critice utilizate în transportul rutier al mărfurilor periculoase. Aspecte privind analiza riscului asociat și planificare teritorială”, data susținerii: 01/07/2022.

## C) Articole/studii, publicate în reviste din fluxul științific internațional

1. Török, Z., A. Ozunu, A. Radovici, C. Maloş, A. Calapod, and F. Senzaconi. 2021. “Natech Hazard Identification at National Level for Seveso Sites Affected by Floods and Earthquakes.” Studia Universitatis Babes-Bolyai Chemia 66 (2): 255–64. <https://doi.org/10.24193/subbchem.2021.2.22>.
2. Ajtai, Nicolae, Horațiu Ștefănie, Alexandru Mereuță, Andrei Radovici, and Camelia Botezan. 2020. “Multi-Sensor Observation of a Saharan Dust Outbreak over Transylvania, Romania in April 2019.” Atmosphere 11 (4). <https://doi.org/10.3390/atmos11040364>.
3. Botezan, Camelia, Veronica Constantin, Monika Meltzer, Andrei Radovici, Alina Pop, Filip Alexandrescu, and Lucrina Stefanescu. 2020. “Is There Sustainable Development after Mining? A Case Study of Three Mining Areas in the Apuseni Region (Romania).” Sustainability 12 (23): 9791. <https://doi.org/10.3390/su12239791>.

## D) Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. Stefanie, Horatiu, Andrei Radovici, Alexandru Mereuta, Horia Camarasan, and Nicolae Ajtai. 2022. “DETECTION OF LOCAL AND LONG-RANGE TRANSPORTED AEROSOL INTRUSIONS OVER CLUJ-NAPOCA, ROMANIA USING MULTIWAVELENGTH LIDAR MEASUREMENTS IN SPRING 2022.” In , 295–302. Albena, BG. <https://doi.org/10.5593/sgem2022/2.1/s10.34>.
2. Ajtai, Iulia, Marius Oprea, Cristian Malos, Andrei Radovici, and Camelia Botezan. 2022. “THE VULNERABILITY ANALYSIS OF A MOUNTAIN RIVER ECOSYSTEM ASSOCIATED TO ANTHROPIC ACTIVITIES, IN A TOURISTIC AREA IN ROMANIA.” In , 201–8. Albena, BG. <https://doi.org/10.5593/sgem2022/3.1/s12.25>.
3. Ajtai, Iulia, Camelia Botezan, Andrei Radovici, Ioana Cristina Pintea, and Calin Baciu. 2022. “IDENTIFICATION AND MAPPING OF FLOOD-SUSCEPTIBLE AREAS IN THE ILIȘUA CATCHMENT, ROMANIA, USING A VULNERABILITY INDEX.” In , 113–20. Albena, BG. <https://doi.org/10.5593/sgem2022/3.1/s12.14>.
4. Radovici, A, H I Stefanie, A Ozunu, H Camarasan, and N Ajtai. 2021. “ANALYSIS OF A SAHARAN DUST INTRUSION OVER CENTRAL AND EASTERN EUROPE, USING GROUND-BASED REMOTE SENSING TECHNIQUES.” In 21st International Multidisciplinary Scientific GeoConference SGEM 2021. <https://doi.org/10.5593/sgem2021/2.1/s10.60>.

5. Ajtai, Iulia, Andrei Radovici, Camelia Botezan, Marius Oprea, and Calin Baciu. 2021. "FLOOD RISK MANAGEMENT AND SPATIAL PLANNING. THE IMPACT OF LAND USE CHANGES ON FLOOD DAMAGES: CASE STUDY OF RESITA CITY." In , 99–106. <https://doi.org/10.5593/sgem2021/3.1/s12.13>.
6. Botezan, Camelia, Andrei Radovici, Iulia Ajtai, Ioana Pistea, and Horatiu Stefanie. 2021. "The Necessity to Develop Vulnerability-Base Land Use Policies in Developing Countries. Case Study: Use of High Resolution Land Use Data in Romania." In , 531–38. <https://doi.org/10.5593/sgem2021/5.1/s20.066>.
7. Stefanie, H., N. Ajtai, A. Radovici, D. Ene, and L. Belegante. 2020. "Assessing the Long Term Stability of the Depolarization Constant for the Cluj Station." Edited by D. Liu, Y. Wang, Y. Wu, B. Gross, and F. Moshary. EPJ Web of Conferences 237: 08006. <https://doi.org/10.1051/epjconf/202023708006>.
8. Radovici, Andrei, Nicolae Ajtai, Horațiu Ștefănie, Camelia Botezan, and Alexandru Ozunu. 2019. "Alternative Routing for Anhydrous Ammonia Transportation: A Comparative Exposure Assessment." In International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 19:51–60. International Multidisciplinary Scientific Geoconference. <https://doi.org/10.5593/sgem2019/5.2/S20.007>

## E) Alte lucrări și contribuții științifice

1. Alexandru Ozunu, Andrei Radovici, Alexandru Mereuță, Ioana Piștea , Zoltan Torok, Technological risk mitigation for the resilient cities, Journal of Engineering Sciences and Innovation Volume 6, Issue 1 / 2021, pp. 71-76.
2. H Stefanie, N Ajtai, A Radovici, D Ene, L Belegante, Assessing the Long Term Stability of the Depolarization Constant for the Cluj Station, EPJ Web of Conferences, 237, DOI:10.1051/epjconf/202023708006, 2020.
3. Andrei RADOVICI, Zoltán TÖRÖK, Alexandru OZUNU, Comparative exposure analysis of hazards related to ammonia road transportation. A case study for Valea Oltului area, Romania. Bulletin of Romanian Chemical Engineering Society, ISSN 2360-4697, 2018.
4. Horațiu ȘTEFĂNIE, Camelia BOTEZAN, Nicolae AJTAI, Andrei RADOVICI, Alexandru MEREUȚĂ, Răzvan PÂRLOAGĂ, Livio BELEGANTE, Optimization of lidar systems measurements for detection of clear air turbulence, Studia Universitatis Babes-Bolyai, Physica 64, 2019.
5. A Mereuta, A Radovici, H Ștefănie, N Ajtai, A Ozunu, L Belegante, A Radu, First results of the CONTUR-1 LIDAR measurement campaign focused on detecting wake turbulences, Geophysical Research Abstracts . 2019, Vol. 21, p1-1. 1p. 2019.
6. Török Zoltán, Horațiu Ștefănie, Camelia Botezan, Irina Smical, Andrei Radovici, Emil Roman, Gheorghe Roșian, Cristian Maloș, Alexandru Ozunu, Exposure analysis in case of chlorine dispersion in Râmnicu Vâlcea town, Romania, Vedelemtudomany, Katasztrófavédelmi online, ISSN 2498-6194., 139-151, 2017.
7. Radovici A., Muntean L., Ozunu A., 2015 Development of an integrated methodology for the identification and classification of critical infrastructures at local level and associated risk assessment. Ecoterra 12(4):75-81.