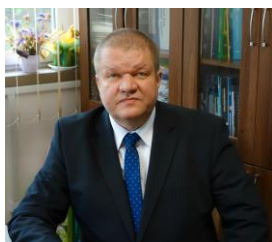


PERSONAL INFORMATION

**Alexandru Ozunu**



📍 Fântânele Street no. 30, 400294, Cluj-Napoca, Cluj County, Romania

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✉ [alexandru.ozunu@ubbcluj.ro](mailto:alexandru.ozunu@ubbcluj.ro)

💬 Skype etc.: alozunu

Sex M | Date of birth 11.04.1961 | Nationality Romanian

WORK EXPERIENCE

- 2016-present

**Professor PhD Engineer, Faculty of Environmental Science and Engineering**  
**Director (founder) of the Research Institute for Sustainability and Disaster Management based on High Performance Computing - ISUMADECIP**  
**Member of the Romanian Academy of Technical Sciences (since 2017)**  
**Affiliated Professor, University of the Free State, Disaster Management Training and Education Centre for Africa (DiMTEC) (since 2018)**  
 Babes-Bolyai University, Cluj-Napoca, Romania, Faculty of Environmental Science and Engineering  
 Fântânele Street no. 30, tel 0264 - 307030Cluj-Napoca

  - Academic leadership activities within the institute, Teaching and research in the Department of Analysis and Environmental Engineering, Ph.D. coordination in Environmental Science
- 2012-2020

**Dean of Faculty of Environmental Science and Engineering, Professor PhD Engineer,**  
**Member of the Romanian Academy of Technical Sciences (since 2017)**  
**Affiliated Professor, University of the Free State, Disaster Management Training and Education Centre for Africa (DiMTEC) (since 2018)**  
 Babes-Bolyai University, Cluj-Napoca, Romania, Faculty of Environmental Science and Engineering  
 Fântânele Street no. 30, tel 0264 - 307030Cluj-Napoca

  - Academic leadership activities within the faculty as dean, teaching and research in the Department of Analysis and Environmental Engineering, Ph.D. coordination in Environmental Science
- 2008 - 2016

**Director (founder) of Research Centre for Disaster Management - CCMD**  
 Babes-Bolyai University, Cluj-Napoca, Romania, Faculty of Environmental Science and Engineering  
 Fântânele Street no. 30, tel 0264 - 307030Cluj-Napoca

  - Research and consultancy activities in the field of risk assessment and disaster management
- 2008-2012

**Vice Dean of Faculty of Environmental Science and Engineering, Professor PhD Engineer,**  
 Babes-Bolyai University, Cluj-Napoca, Romania, Faculty of Environmental Science and Engineering  
 Fântânele Street no. 30, tel 0264 - 307030Cluj-Napoca

  - Academic leadership activities within the faculty as vice dean, teaching and research activities in the Department of Physics, Chemistry and Environmental Engineering, Ph.D. coordination in Environmental Science
- 2005 - 2008

**Director (founder) of Research Centre for the Prevention of Major Industrial Accidents - CCMD**  
 Babes-Bolyai University, Cluj-Napoca, Romania, Faculty of Environmental Science and Engineering  
 Fântânele Street no. 30, tel 0264 - 307030Cluj-Napoca

  - Research and consultancy activities in the field of risk and environmental impact assessment
- 2002-2008

**Director of College for Environmental Protection, Turda, Associate Professor**  
 Babes-Bolyai University, Cluj-Napoca, Romania, Faculty of Environmental Science and Engineering  
 Fântânele Street no. 30, tel 0264 - 307030Cluj-Napoca

- 2002 - 2005

  - Teaching and research in the Department of Physics, Chemistry and Technology

**Director (founder) of Regional Centre for the Prevention of Major Industrial Accidents - CCMD**

Babes-Bolyai University, Cluj-Napoca, Romania, Faculty of Environmental Science and Engineering  
Fântânele Street no. 30, tel 0264 - 307030 Cluj-Napoca
  
- 2000-2002

  - Research and consultancy activities in the field of risk and environmental impact assessment

**Associate Professor, PhD Engineer**

**Laboratory director (founder) of the Laboratory for the Assessment of Environmental Impact of Risk Factors**

Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania, Arany Janos Street no. 11
  
- 1994-2000

  - Teaching and research: risk and safety assessment, Design of chemical plants, Hazard and Risk in the chemical industry, Chemical reaction engineering and specific equipment, Environmental Impact Assessment

**Lecturer, PhD Engineer**

Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania, Arany Janos Street no. 11
  
- 1991-1994

  - Teaching and research: Design chemical plants, Hazard and Risk in chemical industry, Chemical reaction engineering and equipment specific, Transfer phenomena

**Assistant Lecturer, PhD Engineer**

Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania, Arany Janos Street no. 11
  
- 1986-1991

  - Teaching and research: Transfer phenomenon, Chemical reaction engineering and specific equipments, Design of chemical plants

**Engineer**

Production activities: Plant for binders and refractory material, Turda

EDUCATION AND TRAINING

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- 1993-1998

**PhD in Chemical Engineering** EQF level 8

Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj Napoca

  - Chemical technology (transfer phenomena)
  
- 1981-1986

**Engineer (Dipl.)** EQF level 6

Polytechnic University of Bucharest, Faculty of Equipments and Chemical Process Engineering

  - Specialisation: mechano-chemical; specialization: Equipments and Chemical Process Engineering

PERSONAL SKILLS

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Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
Replace with name of language certificate. Enter level if known.					
German	B2: Independent user	B1: Independent user	B2: Independent user	B2: Independent user	B2: Independent user
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills  
Organisational / managerial skills

- good communication skills gained through my experience as a university professor
- Leader
- Organizational skills

- Experience in project management
- Founder and coordinator of the Research Institute for Sustainability and Disaster Management based on High-Performance - ISUMADECIP.
- From academic year 2003, organizer and head of the master specialization "Risk assessment and environmental security"
- From academic year 2006-2007, organizer and head of postgraduate specialization course lasting one semester called "Risk Assessment in the Context of Seveso Directives"
- Founding member of the Research Center for Disaster Management, within the Babes-Bolyai University of Cluj-Napoca
- From academic year 2014, organizer and head of the master specialization "Sustainable development and environmental management", in English
- Coordinating Editor of the Journal of Civil Protection (2008)
- Organizer of the International Summer School on Disaster Management, Romania, 2016 - 2018
- Initiator and organizer of International Conference ELSEDDIMA, 2001-2018

Job-related skills

Are demonstrated through membership in several organizations and volunteering in various communities:

- Member in the regional team for Central and Eastern Europe for disaster response of International Federation of Red Cross and Red Crescent
- Key expert in the project financed by the World Bank (beneficiary – Ministry of Administration and Interior) – National campaign for population information and education in the field of emergency situations management – 2006
- Member of the Scientific Committee of the International Conference of Slovak Society of Chemical Engineering (2002-2008)
- Member of the editorial staff of Studia Universitatis – series Ambientum (BDI)
- Member of the editorial staff of Environmental Engineering and Management Journal (ISI)
- Member of the editorial and organizational staff of Environment & Progress
- Member of the editorial staff of AES International Journal Bioflux (B +)
- Member of the Advisory Board of the Journal "Annals of the Academy of Romanian Scientists-Series on Chemistry"
- guest editor: EEMJ - January 2011, Vol.10, No. 1,
- guest editor: EEMJ - February 2013, Vol. 12, No 2;
- guest editor: EEMJ - November 2015, Vol. 14, No. 11;
- co-editor of Procedia Environmental Science, Engineering and Management Journal;
- editor and coordinator of *Resilient Society*. Environment and Human Action Series. Gembloux, Belgium; Cluj-Napoca, Romania: Les Presses Agronomiques de Gembloux; Bioflux, .Ozunu, I. A. Nistor, D. C. Petrescu, P. Burny, & R. M. Petrescu-Mag, eds
- Co-Editor (Guest) in "Sustainability Journal, Special Issue: Special Issue "Resilience to Natural and Man-Made Disasters" (ISI, 2017),
- Co-Editor (Guest) in "Sustainability Journal, Special Issue: In the Quest of Sustainability: Responses for Ecological and Social-Economic Systems in Front of Risks and Disasters" (ISI, 2018),
- Co-editor (Guest) in Land Use Policy, Special Issue "Environmental Risk Mitigation for Sustainability"

(ISI, 2018)

- Chief-editor of Journal of Environmental Research and Protection – ECOTERRA (BDI)
- co-editor of Journal of Environmental Engineering and Sustainable Development Entrepreneurship;
- coordinator and editor of Civil Protection Jurnal, 2008 – 2016,
- Member of the Scientific Committee of International U.A.B. – B.En.A. Conference Environmental Engineering and Sustainable Development, Alba-Iulia, 25-27 May 2017;
- Member of the Scientific Committee of International Conference 7th International Scientific and Professional Conference „Crisis Management Days”, 22 and 23 May 2014, Zagreb, Croatia, organized by University of Applied Sciences Velika Gorica
- Member of the Scientific Committee of the International Conference on Energy and Environment, CIEM 2015,
- Member of the Scientific Committee of the International Conference "Ecological Performance in a competitive Economy" (PEEC2016)
- ARACIS expert
- Member in the Commission for Litigation Analysis of CNATDCU, since 2013

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|-----------------|--|
| Computer skills | ▪ Knowledge of computer operating - Microsoft Office (Word, Excel, PowerPoint), Internet, specific software for environmental impact and technological risk assessments (Effects, SEVEX, Aloha, Fair View) |
| Driving licence | License category B   |

ADDITIONAL INFORMATION

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| Presentations<br>Conferences<br>Seminars | <ul style="list-style-type: none"> <li>• <b>June 2003</b>, participation in the International Workshop IRCYL at Imperial College, London, plenary lecture.</li> <li>• <b>July 2006</b>, invited key expert for training assessment in the field of disaster management in the South-East Europe from the Stability Pact, Disaster Prevention and Preparedness Initiative (Serbia, Croatia, Slovenia, Bosnia and Herzegovina, Macedonia, Montenegro, Hungary, Albania, Moldavia and Romania).</li> <li>• <b>October 2006</b>, participation in the International Workshop of Expert Group for Vulnerability Group, organized by United Nations University, Prato, Italia</li> <li>• <b>March 2007</b>, invited professor in Lund University, Sweden, at the International Institute for Industrial Environmental Economics (IIIEE), within the "Knowledge Transfer and institutional capacity building for cleaner production in Romania" project, by professor Thomas Lindquist.</li> <li>• <b>April 2007</b>, participation in Advanced Research NATO Workshop ARW "Risk Assessment as a Basis for Elaboration of Recommendations for Forecast and Prevention of Catastrophes". Member of the organizing committee, chairman in section "Forecast and prevention of manmade disaster".</li> <li>• <b>September 2007</b>, participant in Workshop NATECH Risk Assessment and Management, Milano, Italy</li> <li>• <b>April 2008</b>, participant in NATO Advanced Research Workshop, „Optimization of disaster forecasting and prevention measures in the context of human and social dynamics”, Chisinau, Republic of Moldova</li> <li>• <b>October 2009</b>, participant in the 9th IIASA-DPRI FORUM on Integrated Disaster Risk Management "Scientific Challenges in Implementing Integrated Disaster Risk Management (IDRiM) in a Changing World", 12 – 16th October, Kyoto,</li> <li>• <b>May 2010</b>, participant in the European Geosciences Union - General Assembly 2010, Vienna, Austria, with the presentation „Investigations on Natural Hazards Effects which trigger Technological Disasters"</li> <li>• <b>October 2010</b>, participant in The NATO-Advanced Research Workshop, Yerevan, Armenia,</li> <li>• <b>November 2010</b>, participant in The SECURENV Foresight Scenario Workshop, Stockholm, Sweden</li> <li>• <b>April 2011</b>, participant in the European Geosciences Union General Assembly 2011, Vienna Austria, 03 – 08 April 2011</li> <li>• <b>November 2011</b>, invited lecture in the Global APELL Anniversary Forum: 25 years of Local Level Preparedness and Environmental Emergency Management, Beijing, China, 16 – 18th November 2011</li> <li>• <b>April 2012</b>, work visit at Department of Environmental Science, Mathematics and Statistics</li> </ul> |
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- at Ca' Foscari University, Venice, Italy
- **May 2013**, participation in the BENA International Conference: "Environmental Engineering and Sustainable Development", Alba-Iulia, Romania, 23-25 May, 2013
- **May 2013**, participation in the 40th Conference of Slovak Society of Chemical Engineering, Tatranské Matliare, Slovakia, Mai 27-31, 2013
- **July 2013**, participation in the Conference "Antreprenoriat, Mediu de Afaceri și Dezvoltare Durabilă", organized by the Technical University of Cluj-Napoca, 4-5 July 2013
- **September 2013**, participation in The 4th Conference of the International Society for Integrated Disaster Risk Management (IDRiM 2013), Northumbria University, Newcastle upon Tyne, UK, 4 – 6 September 2013
- **September 2013**, participation in The 7th International Conference on Environmental Engineering and Management, Integration Challenges and Management, Vienna, Austria, 18 – 21 September 2013
- **June 2014**, invited speaker in The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture", June 5 - 7, 2014, Bucharest, Romania
- **June 2014**, invited speaker to Second International Conference on Natural and Anthropic Risks - ICNAR2014, 04-07 June 2014, Bacău, Romania, with the plenary presentation "Industrial risks related to NaTech events in Romania"
- **June 2014**, invited speaker to SICHEM 2014/SICR\_ASTR, 20<sup>th</sup> June 2014, Bucharest, Romania
- **June 2014**, participation in The 5th GIST - European Universities Joint Workshop, Cluj Napoca, June 17 - 18 2014
- **February 2015**, participation in the "VERDEXCHANGE ARIZONA – A Business to Business Leadership Conference for Sustainable Economic Growth", Phoenix, Arizona, U.S.A.
- **May 2015**, participation in the International U.A.B. – B.EN.A. Conference Environmental Engineering And Sustainable Development, Alba Iulia, Romania, May 28-30th, 2015
- **September 2015**, invited key-speaker in the annual Disaster Management Institute of South Africa (DMISA) Conference, Bloemfontein, South Africa, September 4<sup>th</sup> – 11<sup>th</sup>, 2015
- **November 2016**, invited key-speaker in the International Conference Risk Reduction for Resilient Cities, Bucharest, Romania, November 3<sup>rd</sup> – 4<sup>th</sup>, 2016,
- **November 2016**, invited key-speaker in the National Conference Entrepreneurship, Business Environment and Sustainable Development, Cluj-Napoca, Romania, November 23<sup>rd</sup> – 24<sup>th</sup>, 2016
- **January 2017**, work visit at Ben-Gurion University of the Negev, Israel
- **August 2017**, participation in the 8<sup>th</sup> Conference of the International Society for Integrated Disaster Risk Management – IDRiM 2017, 23 – 25 august 2017, Reykjavik, Iceland
- **October 2017**, participation in the Academic Days Event of the Academy of Technical Sciences of Romania, Constanța, 6 – 7 October 2017
- **November 2017**, participation in the 20th Anniversary of the Academy of Technical Sciences of Romania București, 3 November
- **September 2018**, participation SICHEM 2018, 6 – 7 September 2018, Bucharest, Romania
- **February 2019**, invited speaker Disaster Management Training and Education Center for Africa, Belville, South Africa
- **May 2019**, key note speaker 46th Conference of Slovak Society of Chemical Engineering, 20 – 23 May 2019, Tatranské Matliare, Slovakia
- **October 2019**, participation in the Academic Days Event of the Academy of Technical Sciences of Romania, 17 – 18 october 2019, Chișinău, Moldova
- **November 2019**, participation in the National Symposium with International Participation Environment & Progress, 15th November 2019, Cluj-Napoca

## Honours and awards

- Honor of Scientific Research Excellence at Babes-Bolyai University, 2019
- The distinction "Transylvania Cross", awarded by the Mitropoly of Cluj, Alba, Crisana and Maramures on 26<sup>th</sup> May 2013;
- Honor for the contribution to the improvement of the system for emergency situations prevention and management, 2008,
- Honor of Didactic Excellence for the introduction of new mechanisms for quality assurance and of new methods in the teaching pedagogy and methodic at Babes-Bolyai University, 2007,
- Honor of the Ministry of Administration and Interior for the contribution to the development of training activities of the leading personal in public administration, 2003;
- Honor for the contribution to the Babes-Bolyai University, 2002.

- Memberships
- Member of the Academy of Technical Sciences of Romania
  - Founding member and president of the National Society for Environmental Science and Engineering
  - Member of the International Society for Integrated Disaster Risk Management- IDRIM, 2010, Kyoto, Japan
  - Founder and president of the "APELL National Center for Disaster Management" Foundation
  - Member of Balkan Environmental Association (B.EN.A.),
  - Member of European Geosciences Union (EGU)
  - Member of Rotary Club Turda, District 2241, Assistant Governor 2012-2013
  - Founding member of the Society of Chemical Engineering in Romania, Cluj
  - Member of the Chemical Society in Romania

## ANNEXES

1. Articles, books published
2. Research grants and contracts completed

Annex 1

### Articles, books published

#### Specialty books published in recognized publishing houses in the country (selection):

1. Modoi, Oana-Cristina, **Alexandru Ozunu**, (2012), "*Practical applications in solid waste management*", Ed. EFES, Cluj-Napoca, P. 135
2. Zoltan Torok, Ajtai Nicolae, **Alexandru Ozunu**, (2011), *Applications for risk assessment of major industrial accidents involving dangerous substances*, Ed. EFES, Cluj-Napoca, P. 117
3. Misca, R., Manciu, D., **Ozunu, A.**, (2009), "*Practical workbook for Environmental Engineering*", Cluj University Press, Cluj-Napoca
4. Roşu Cristina Doina, Costin Dan Florin, Arghius Viorel-Ilie, **Ozunu Alexandru**, (2009), (editors), *Environment&Progress*, Ed. EFES, Cluj-Napoca, P. 370
5. **A.Ozunu**, C.I.Anghel, *Technologic risk assessment and environmental security*, Accent Publishing House, Cluj-Napoca, 2007

#### Chapters in books published in international publishing houses:

1. Dacina Crina Petrescu, Ruxandra Mălina Petrescu-Mag, **Alexandru Ozunu**, 2017, *Building a Resilient Society through Better Protected Consumers. A Cross-EU Analysis of the "Paternal" Intervention of Public Authorities*, in *Resilient Society*, 2017. Environment and Human Action Series. Gembloux, Belgium; Cluj-Napoca, Romania: Les Presses Agronomiques de Gembloux; Bioflux, .Ozunu, I. A. Nistor, D. C. Petrescu, P. Burny, & R. M. Petrescu-Mag, eds.
2. Lucrina Ştefănescu, Török Zoltan, Francisc Senzaconi, **Alexandru Ozunu**, 2013, *Quantitative Fire Risk Assessment Procedure at Pesticide Storage Facilities in Romania*, NATO Science for Peace and Security Series C: Environmental Security, Environmental Security Assessment and Management of Obsolete Pesticides in Southeast Europe, pp 249-256, Editors Lubomir I. Simeonov, Fliur Z. Macaev, Biana G. Simeonova, DOI 10.1007/978-94-007-6461-3\_22,
3. **Ozunu, Alexandru**, Gagi, Andra, Costan, Camelia, Nour, Eugen, 2011, *Risk perception and social vulnerability in local communities: A case study for Băiuţ area, Maramureş County. Romania*, NATO Science for Peace and Security Series - E: Human and Societal Dynamics, Volume 80, 2011, Stimulus for Human and Societal Dynamics in the Prevention of Catastrophes, Edited by Arman Avagyan, David L. Barry, Wilhelm G. Coldewey, Dieter W.G. Reimer, ISBN 978-1-60750-737-6, DOI: 10.3233/978-1-60750-738-3-3
4. **Ozunu, A.**, Torok, Z., Cosara, V., Cordos, E., Dutrieux, A., (2008), *Vulnerability Mitigation and Risk Assessment of Technological Disaster*, NATO Science for Peace and Security Series, E: Human and Societal Dynamics, Volume 35, Risk Assessment as a Basis for the Forecast and Prevention of Catastrophes, Edited by Ion Apostol, Wilhelm G. Coldewey, David L. Barry, Dieter Reimer, ISBN 978-1-58603-844-1, Editura Springer Netherlands
5. Dacina Crina Petrescu, **Alexandru Ozunu**, (2008), *Environmental negotiations and their connection with the climate change risks*, NATO Science for Peace and Security Series, E: Human and Societal Dynamics, Volume 35, 2008, Risk Assessment as a Basis for the Forecast and Prevention of Catastrophes, Edited by Ion Apostol, Wilhelm G. Coldewey, David L. Barry, Dieter Reimer, ISBN 978-1-58603-844-1

#### Articles / studies published in ISI journals (selection):

1. Zoltán Török, Ruxandra - Mălina Petrescu-Mag, Alexandru Mereuță, Cristian Valeriu Maloş, Viorel-Ilie Arghiuş, **Alexandru Ozunu**, 2019, *Analysis of territorial compatibility for Seveso-type sites using different risk assessment methods and GIS technique*, <https://doi.org/10.1016/j.landusepol.2019.02.037>

2. Ajtai, N., Stefanie, H., Botezan, C., **Ozunu, A.**, Radovici, A., Dumitrache, R., Iriza-Burcă, A., Diamandi, A., Hirtl, M., 2019, *Support tools for land use policies based on high resolution regional air quality modelling*, Land-use policy, DOI: 10.1016/j.landusepol.2019.03.022
3. Miclean, M., Cadar, O., Levei, E.A., Roman, R., **Ozunu, A.**, Levei, L., 2019, *Metal (Pb, Cu, Cd, and Zn) Transfer along Food Chain and Health Risk Assessment through Raw Milk Consumption from Free-Range Cows*, Int. J. Environ. Res. Public Health 2019, 16, 4064; doi:10.3390/ijerph16214064
4. Petrescu-Mag, R. M., Petrescu, D. C., & **Ozunu, A.** (2019). *Scientist, Quo Vadis Without Ethics? An Introduction to Special Collection on "Environmental Ethics: Issues and Perspectives from Romania"*. Journal of Agricultural and Environmental Ethics, 32(1):1-4, WOS:000467100400001
5. Levente Levei, Eniko Kovacs, Maria-Alexandra Hoaghia, **Alexandru Ozunu**, 2018, *Accumulation of Heavy Metals in Plantago Major Grown in Urban and Post-Industrial Areas*, STUDIA UBB CHEMIA, LXIII, 1, 2018 (p. 87-98) DOI:10.24193/subbchem.2018.1.07
6. Kovacs, A., Bican-Brişan, N., Maloş, C., Török, Z., Botezan, C., **Ozunu, A.**, 2018, *Natech Risk Assessment at Gas Exploitation Well in Romania*, Journal of Environmental Protection and Ecology 19, No 2, 656–666 (2018)
7. Mirela Miclean, Oana Cadar, Levente Levei, Lacrimoara Senila & Alexandru Ozunu (2018) *Metal contents and potential health risk assessment of crops grown in a former mining district (Romania)*, Journal of Environmental Science and Health, Part B, DOI: 10.1080/03601234.2018.1473966
8. Monika Meltzer, Lucrina Ştefănescu, **Alexandru Ozunu**, 2018, *Keep Them Engaged: Romanian County Inspectorates for Emergency Situations' Facebook Usage for Disaster Risk Communication and Beyond*, Sustainability 2018, 10(5), 1411; <https://doi.org/10.3390/su10051411>
9. Dora Doroşan, Dan Costin, **Alexandru Ozunu**, 2018, *Application of Quality Indices for Evaluation of Heavy Metals Pollution in Water, Soil and Sediments in the Upper Lapus River, Baiut Mining District, Maramures County, Romania*, Journal of Environmental Protection and Ecology, Volume: 19, Issue: 4, Pages: 1472-1480, WOS:000456590800004
10. Agnes Keresztesi, Petres Sandor, Gina Ghita, Florina Diana Dumitru, Mihaela Andreea Moncea, **Alexandru Ozunu**, Robert Szep, 2018, *Ammonium Neutralization Effect on Rainwater Chemistry in the Basins of the Eastern Carpathians – Romania*, REV.CHIM.(Bucharest), 69, No. 1, 2018
11. Albano, R., Crăciun, I., Mancusi, L., Sole, A., **Ozunu, A.**, 2017, *Flood damage assessment and uncertainty analysis: the case study of 2006 flood in Ilişua Basin in Romania*, Carpathian Journal of Earth and Environmental Sciences, July 2017, vol. 12, no. 2, p. 335 – 346
12. Bizo, M., Nietzsche S., Mansfeld, U., Langenhorst, F., Majzlan, J., Göttlicher, J., **Ozunu, A.**, Formann, S., Krause, K., Kothe, E., 2017, *Response to lead pollution: mycorrhizal Pinus sylvestris forms the biomineral pyromorphite in roots and needles*, Environ Sci Pollut Res DOI 10.1007/s11356-017-9020-7
13. Roman E., Ştefănescu L., Kozma Kis E.E., Chiribucă D., Dîncu A., Arghiuş V., **Ozunu A.**, 2016, *Early Warning Systems for Disaster Risk Reduction: A Case Study in North-West of Romania*, STUDIA UBB CHEMIA, LXI, 3, Tom II, 2016 (p. 365-378).
14. Radovici A., Roman E., Török Z., **Ozunu A.**, 2016, *A risk assessment study for local critical infrastructures used in hazmat transportation*, STUDIA UBB CHEMIA, LXI, 3, Tom II, 2016 (p. 379-389).
15. Roba, C., Roşu, C., Piştea, I., **Ozunu, A.**, Baciu, C., 2015, *Heavy metal content in vegetables and fruits cultivated in Baia Mare mining area (Romania) and health risk assessment*, Environmental Science and Pollution Research, DOI: 10.1007/s11356-015-4799-6, ISSN: 1614-7499
16. Dora Doroşan, **Alexandru Ozunu**, Dan Costin, 2015, *Industrial, Historical and Natural Accumulation of Heavy Metals in Soils and Alluvial Deposits of Lăpuş River, Maramureş County, Romania*, Carpathian Journal of Earth and Environmental Sciences, Vol. 10, 2015 – Number 4.
17. C. Botezan, **Al. Ozunu**, H. Ştefănie, 2015, *Vulnerability Assessment: the Case of the Aries River Middle Basin*, Journal of Environmental Protection and Ecology, vol. 16, no. 4, 2015, pg. 1316 – 1326
18. Roba, C., Roşu, C., Piştea, I., Baciu, C., Costin, D., **Ozunu, A.**, 2015, *Transfer of Heavy metals from soil to vegetables in a mining/smelting influenced area (Baia Mare – Femeziu, Romania)*, Journal of Environmental Protection and Ecology, 16(3), pp. 891 – 898, ISSN 1311 – 5065
19. Maria L. Bizo, Erika A. Levei, Erika Kothe, Marin Şenilă, Cristina O. Modoi, **Alexandru Ozunu**, 2015, *Chemical Assessment of Soil Quality for Ecological Reconstruction Strategies*, Carpathian Journal of Earth and Environmental Sciences, Vol. 10, 2015 – Number 4.
20. Zoltán Török, **Alexandru Ozunu**, 2015, *Hazardous Properties of Ammonium Nitrate and the Modeling of Explosions Using TNT Equivalency*, Environmental Engineering and Management Journal, November 2015, Vol. 14, No. 11, 2671 - 2679.
21. Maria L. Bizo, Carmen Roba, Erika A. Levei, Alexandra Hoaghia, Cristina O. Modoi, **Alexandru Ozunu**, 2015, *Comparison of FAAS and XRF performance for metal monitoring in brownfields*, Environmental Engineering and Management Journal, November 2015, Vol. 14, No. 11, 2515 – 2523
22. Livio Belegante, Marius Mihai Cazacu, Adrian Timofte, Florica Toanca, Jeni Vasilescu, Madalin Ion Rusu, Nicolae Ajtai, Horatiu Ioan Stefanie, Ion Vetres, **Alexandru Ozunu**, Silviu Gurlui, 2015, *Case study of the first volcanic ash exercise in Romania using remote sensing techniques*, Environmental Engineering and Management Journal, November 2015, Vol. 14, No. 11, 2503 - 2515.
23. Roşu, C., Piştea, I., Roba, C., Mihău, M., **Ozunu, A.**, 2014, *Surface Water Quality Assessment. Case Study: Tarnava Mare River, Medias Town–Romania*, Indian Journal of Applied Research, 4(5), pp. 70 – 72, ISSN 2249 – 555X
24. Modoi O.-C., Roba C., Török Z., **Ozunu A.**, 2014, *Environmental risks due to heavy metal pollution of water resulted from mining wastes in NW Romania*, Environmental Engineering and Management Journal, Vol.13/9, pp. 2325-2336.
25. Roba C., Ştefănie H., Török Z., Kovacs M., Roşu C., **Ozunu A.**, 2014, *Determination of volatile organic compounds and particulate matter levels in an urban area from Romania*, Environmental Engineering and Management Journal, Vol.13/9, pp. 2261-2265.

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Annex 2

### Research grants and contracts

#### Grants and national / international research contracts (selection)

Date	Location	Position	Description
2017 - 2022	UE	WP 6 leader	<b>DAREnet</b> - Network for Flood Resilience in the Danube River Region - DAREnet is a network of practitioners dealing with flood resilience in the Danube River Region. The network is supported by a continuously evolving multi-disciplinary community of stakeholders consisting of policy makers, academics, industry and many more.
2016 - 2017	Romania	Partner leader	<b>RO-RISK</b> – National Disaster Risk Assessment – this project aims at a primary assessment of disaster risks at national level, considering the impact on human safety, society, economy and environment, based on a unitary methodology. The results will support strategic decisions to reduce disaster risks.
2016 - 2017	UE	Member of the team	<b>YAPS</b> - “Raising young people’s awareness on preparedness and self-protection” - Strengthening the self-help competencies of the population is the primary objective of this project. Critical information about recognizing and dealing with possible hazards and risks should be provided to citizens by effective education and communication in a bid to avoid injury and life-threatening situations.
2014 – 2015	Romania	Project manager	<b>MADECIP</b> - Development of research infrastructure for disaster management based on high performance computing, POS CCE Funding - The objective of the project is to increase the research-development capacity of Babeș-Bolyai University of Cluj-Napoca, through the development of disaster management based on high performance computing. Furthermore, new laboratories/research centers will be founded and the existing ones will be updated, with the aim of creating new work places, intensifying interdisciplinary research and optimising international cooperation
2018 - 2019	UE	Member	<b>Eu ModEX lot 2</b> - Exercises on civil protection modules, technical assistance and support teams and European Union civil protection teams - Design, plan, conduct and self-evaluate three field exercises for civil protection modules, other response capacities registered in CECIS, primarily for High Capacity Pumping, Water Purification, CBRN Detection and Sampling, Flood Rescue Using Boats, Flood Containment and Forest Fire Fighting modules.

2017 - 2018	UE	Member	<b>Eu ModEX lot 2</b> - Exercises on civil protection modules, technical assistance and support teams and European Union civil protection teams - Design, plan, conduct and self-evaluate four exercises for High Capacity Pumping, Water Purification, CBRN Detection and Sampling, Flood Rescue Using Boats, Advance Medical Post with or without surgery (AMP/S), Technical Assistance and Support Team (TAST) and experts of a European Union Civil Protection Team (EUCPT) as well as other capacities of the voluntary pool.
2015 - 2016	UE	Exercise director	<b>Eu ModEX 1</b> - Exercises on civil protection modules, technical assistance and support teams and European Union civil protection teams - Design, plan, conduct and evaluate three exercises for High Capacity Pumping, Water Purification, CBRN Detection and Sampling, Flood Rescue Using Boats, Technical Assistance and Support Team (TAST) and experts of a European Union Civil Protection Team (EUCPT)
2016 - 2017	UE	Exercise director	<b>Eu ModEX 2</b> - Exercises on civil protection modules, technical assistance and support teams and European Union Civil Protection Teams - Design, plan, conduct and evaluate four exercises for High Capacity Pumping, Water Purification, Flood Rescue Using Boats, Advance Medical Post with or without surgery, Technical Assistance and Support Team (TAST) and experts of a European Union Civil Protection Team (EUCPT) as well as other capacities of the voluntary pool.
2014 - 2016	UE	Member of the team	<b>SUSMIN</b> – “Tools for sustainable gold mining in EU” - Gold mining has challenges in eco-efficiency and extraction methods (e.g. cyanide) and novel sustainable methods and technologies for mineral processing, water treatment and management of environmental and social impacts are needed. This will be addressed by this project.
2010 – 2013	Romania	Partner leader	<b>CUANTUMDOC</b> – Doctoral Studies for European Performances in Research and Innovation – development of human resources involved in research activities, through doctoral studies
2009 – 2012	Romania	Partner leader	<b>EURODOC</b> – Doctoral scholarships for the performance in research at European level - The improvement of participation to the initial training and increase of quality of research activities developed during the university studies, by the provision of financial support of a number of 141 PhD students and access to research tools, methods and equipments at European level
2009 – 2011	Romania	Partner leader	<b>RADO</b> , Romanian Atmospheric Research 3D Observatory, Innovation Norway Research Programme, no. 115266/2008 – the first 3D Atmospheric Observatory in Romania (and so far unique in SE Europe), dedicated to research and monitoring of atmospheric processes and compounds in the Planetary Boundary Layer and Free Troposphere was created
2008 – 2010	Romania	Partner leader	<b>RESOLMET</b> , Innovative remediation technology of soils contaminated by the activities specific to the metallurgical industry, Contract 32-161/2008 - elaboration of conceptual models and applicable techniques in case of bioremediation technologies of soils contaminated with heavy metals, sulfur dioxide, petroleum products
2007 – 2011	Romania	Partner leader	<b>ROLINET</b> , Romanian Lidar NETWORK – PN II – Partnership 31-002/2007 - Creation of a competitive Romanian Network of Lidar Systems to be integrated into EARLINET, GAW, GEOS
2006-2008	Romania	Project manager	<b>DENATEH</b> , CEEEX Project “Mitigation of vulnerability and consequences of natural and technological disasters, in order to support local communities” - development of national capacity to elaborate efficient crisis management systems and disaster responses
2006-2007	Romania	Project manager	<b>ELSEDIMA</b> , Project „Environmental legislation, safety engineering and disaster management – environmental safety management” – Organization the 5 <sup>th</sup> edition of the international conference in the field of environmental safety with the topic „ Environmental legislation, safety engineering and disaster management”
2006 – 2008	Romania	Scientific responsible	<b>SIG</b> , Developing hazard maps and environmental quality assessment in mining areas of Maramures and Satu Mare counties using geographic information systems - Real time knowledge of the state and evolution of ecological degree of the mining areas negatively affected as a result of exploiting and processing the useful minerals, Elaboration of maps of natural and antropic hazards in the mining areas according to current legislation
2006 2007	UE	Scientific responsible	<b>Pre-emergencies</b> - enhanced integration among the various entities involved in planning and managing response to an emergency and enhanced communication and information exchange and quality between response teams and civilians, in crisis situations

2005	UE	Scientific responsible	<b>BEQUAR</b> , Benchmark Exercise Risk Assessment in Central and Eastern European Countries (Accident consequence analysis), European Commission, Directorate General, Joint Research Center - evaluate the risk of a hazardous establishment and the area risk resulting from it by using the ARIPAR methodology, with the main objective of: conducting independent reviews of the risk analysis of a reference Seveso II establishment, and assessing the risk in the selected impact area
2005-2007	UE	Scientific responsible	<b>MASS</b> , Management and Security Assessment for Sustainable Environment, ERASMUS-MODUC-6 - courses development and implementation based on an e-learning method
2001-2004	Romania	Project manager	<b>CRAIM</b> , MENER Project Director "Inception of the Regional Centre for Major Industrial Accident Prevention" – development of the Regional Centre for Major Industrial Accident Prevention within the Babes-Bolyai University
2001-2004	UE	Member	<b>IRCYL</b> , Investigation of the Risk of Cyanide in Gold Leaching on Health and Environmental in Central Asia and Central Europe, Copernicus project "Disaster Management Section" - investigated the health effects of an accidental cyanide spill of the Kumtor Company in the Kyrgyz Republic, on May 20, 1998, and of the Aurul dam rupture in Romania on January 30/31, 2000 and analyzed the responses to the accident in the view of disaster medicine and to develop recommendations for an appropriate response to cyanide accidents
2001-2004	Romania	Scientific responsible	<b>SALRISC</b> , Integrated Risk Management System for Salt Exploitations in Romania – Monitoring, Forecasting and Prevention Methods, Techniques and Technologies, MENER Programme - integrated risk management system at the salt deposits in Romania, as well as new technologies and monitoring and prevention techniques for the high risk sites

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