



Curriculum vitae
Europass



Personal Information

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Hirsh Web of Science	9
Hirsh Scopus	10
Hirsh Google Scholar	12

Professional Experience

Period	September 2022 – Present
Position	University Assistant , Department of Geography, Faculty of Geography and Geology, “Alexandru Ioan Cuza” University, Iași.
Period	February 2022 – September 2022
Position	Scientific Researcher , CERNESIM Department (Integrated Center for Environmental Science Studies for the North-East Development Region), within the Interdisciplinary Research Institute (ICI) of “Alexandru Ioan Cuza” University, Iași.
Period	February 2019 – February 2022
Position	Assistant Scientific Researcher , CERNESIM Department, Interdisciplinary Research Institute (ICI), “Alexandru Ioan Cuza” University, Iași.
Period	April 2023 – June 2023
Position	Abiotic Environment Expert within the project "Services for the preparation of support studies, necessary maps, and management plan for the POIM 2014-2020 project - Biodiversity Management through the development of the management plan for the ROSPA0065 Fundata Amara Lakes protected area" (SMIS 124414).
Employer	Romanian Ornithological Society, Bucharest, Romania.
Period	January 2022 – December 2024

Position **Project Director** for the research project "*Quantitative assessment of tailings dam failure and its environmental impact*" (project code GI-UAIC-2022-06), UAIC, Faculty of Geography and Geology.

Period September 2019 – April 2024

Position **Member of the research project** "*Assessment of the susceptibility of freshwater environments to plastic waste pollution*" (acronym SAFE-PP, project code PN-III-P1-1.1-TE-2021-0075), led by Florin Constantin Mihai, CERNESIM Department, ICI, "Alexandru Ioan Cuza" University, Iași.

Period May 2021 – October 2021

Position **Member of the research project** "*Open Source Spatial Data Infrastructure for Soil Cartography and Land Management*" (project code PN-III-P2-2.1-PED-2019-5436), led by Bogdan Roșca, Romanian Academy, Iași Branch.

Period November 2020 – October 2022

Position **Member of the research project** "*Vulnerability of Groundwater Resources from the Moldavian Plateau to Climate Change*" (acronym CHUWAT, project code PN-III-P1-1.1-TE-2019-0286), led by Ionuț Minea, UAIC, Faculty of Geography and Geology.

Period September 2017 – April 2020

Position **GIS Specialist for the project** "*Development of Management Plans for ROSPA0109 Belcești Reservoirs, ROSCI0222 Jijia Inferior Saline Areas, ROSPA0042 Jijia and Miletin Ponds and 2.553 Balta Teiva Vișina protected areas.*"

Employer Romanian Ornithological Society, Bucharest.

Period October 2014 – Present

Position **Associate Lecturer**

Activități și responsabilități principale Conducting practical courses on Hydrology and Oceanography, General Physical Geography, European Geography, and Black Sea Geography for various years of study.

Employer Faculty of Geography and Geology, "Alexandru Ioan Cuza" University, Iași.

Period September 2017 – October 2018

Position **GIS Specialist** within the project "*Efficient Management in Natura 2000 Sites: ROSCI0276 Albesti, ROSCI0417 Manoleasa, ROSCI0317 Cordăreni-Vorniceni, and ROSCI0234 Stâncă Costești, Botoșani County.*"

Employer Stoleriu Cristian Constantin - PFA

Period June 2017 – June 2018

Position **Volunteer GIS Analyst**

Employer Digitization of thematic layers within the project "*Study of Forest Area Evolution in Moldova from the Early 18th Century to Present.*"

Period EnviroGIS NGO, Iași.

Period May 2013 – May 2014

Position **Volunteer GIS Analyst within the project** "*European Ground Squirrel Population from Eastern Romania.*"

Employer Conservation Leadership Programme, SistemIS, Iași
<https://sites.google.com/site/popandaumoldova/>

Period September 2012 – June 2013
Position **Volunteer for Botanical Activities**
Employer "Alexandru Ioan Cuza" University, "Anastasiu Fătu" Botanical Garden, Dumbrava Roșie, Iași, Romania.

Education and Training

Period October 1, 2013 – March 15, 2017
Qualification / Degree Obtained **PhD in Geography**
PhD thesis title *Identification of flood-prone areas in the Ozana river basin*
Institution Faculty of Geography and Geology, "Alexandru Ioan Cuza" University, Iași.

Period May 2014 – December 2015
Position **Member (Doctoral Scholarship Holder) within the POSDRU Project:**
"Doctoral and Postdoctoral Programs of Excellence for the Training of Highly Qualified Human Resources in Life Sciences, Environment, and Earth Sciences."
Employer Beneficiary - University of Bucharest, Partner 1 - "Alexandru Ioan Cuza" University, Iași.

Period October 2011 – June 2013
Qualification / Degree Obtained **Master's Degree, specialization in "Natural Risks and Spatial Planning" – Field: Geography**
Msc thesis title *Hydrological risks in the upper Ozana river basin. case study: Pipirig commune.*
Institution Faculty of Geography and Geology, "Alexandru Ioan Cuza" University, Iași.

Period October 2011 – June 2013
Qualification / Degree Obtained **Pedagogical Module - Level 2 (Advanced)**
Institution Department for Teacher Training, "Alexandru Ioan Cuza" University, Iași.

Period October 2008 – June 2011
Qualification / Degree Obtained **Bachelor's Degree**, specialization in Geography
Bachelor thesis title *Hydrological risks on the Ozana river valley*
Institution Faculty of Geography and Geology, "Alexandru Ioan Cuza" University, Iași.

Period October 2008 – June 2011
Qualification / Degree Obtained **Pedagogical Module - Level 1**
Institution Department for Teacher Training, "Alexandru Ioan Cuza" University, Iași.

Period September 2004 – June 2008
Qualification / Degree Obtained Baccalaureate Diploma
Institution "Ștefan cel Mare" National College, Târgu Neamț.

Courses and Workshops

Period October 16-23, 2023
Qualification / Degree Obtained **Participation in activities aimed at developing evaluation competencies for quality assurance in higher education.**
Institution *UniQualitas: Quality Assurance and Evaluation* at "Alexandru Ioan Cuza"

University, Iași.

Period	October – November 2021
Qualification / Degree Obtained	Participation in the "Uniteach" pedagogical training activity.
Institution	“Alexandru Ioan Cuza” University, Iași, and the Romanian Academy. https://www.uaic.ro/proiect-uniteach-uaic-2/
Period	March 28-29, 2019
Qualification / Degree Obtained	Participation in the workshop " <i>Georeferencing and Processing Terrestrial Laser Scanner (LST) Data and UAV Images.</i> "
Institution	Gheorghe Asachi Technical University of Iași, Faculty of Hydrotechnics, Geodesy, and Environmental Engineering, and Vienna University of Technology, Faculty of Mathematics and Geoinformatics.
Period	July 2018
Qualification / Degree Obtained	Entrepreneur
Institution	“Ștefan cel Mare” University of Suceava, in partnership with SC Advances Strategic Solutions SRL, co-funded by the Human Capital Operational Program 2014-2020.
Period	November – December 2017
Qualification / Degree Obtained	Certificate for the online course " <i>The Location Advantage</i> " offered by ESRI via the educational platform Udemy.com.
GIS Activities	<i>Location analysis uses business data to improve users' market understanding</i>
Institution	Udemy.com, ESRI Business Analyst Online.
Period	October 3, 2015
Qualification / Degree Obtained	Participation in the workshop " <i>Creating WEBGIS Services Using Open Source Programs</i> " – presented by C.S. Vasile Crăciunescu (National Meteorological Administration).
GIS Activities	Development of interactive WEBGIS by integrating vector and raster data.
Institution	International Symposium on Geographical Information Systems and Remote Sensing, October 2-4, 2015, Iași, Romania.
Period	October – December 2014
Qualification / Degree Obtained	Certificate of completion for the online course " <i>Going Places with Spatial Analysis,</i> " offered by ESRI through Udemy.com.
GIS Activities	Spatial data analysis, querying, scale analysis, descriptive statistics, projection.
Institution	Udemy.com, ESRI
Period	November 14-17, 2014
Qualification / Degree Obtained	Certificate of participation in the workshop " <i>Advanced Techniques for Manipulating and Analyzing Spatial Data</i> " organized at the Research Station for Geographic and Environmental Quality Monitoring, Mădârjac, Iași County.
Institution	Faculty of Geography and Geology, “Alexandru Ioan Cuza” University, Iași, and the Romanian Academy, Iași Branch.
Period	July 21-27, 2014
Qualification / Degree Obtained	Certificate of participation in the workshop " <i>Spatial Analysis and Technical</i>

Institution	<i>Solutions</i> " organized at the Research Station for Geographic and Environmental Quality Monitoring, Mădârjac, Iași County. Faculty of Geography and Geology, "Alexandru Ioan Cuza" University, Iași, and the Romanian Academy, Iași Branch.
Period	May 7-14, 2012
Qualification / Degree Obtained	Participation in a Mountain Rescue Camp organized in Padina (Bucegi Mountains).
Institution	National Authority for Sport and Youth
Period	June 16-23, 2012
Qualification / Degree Obtained	Professional Practice Internship at the Inspectorate for Emergency Situations, Iași County, conducted within the POSDRU project (POSDRU/86/1.2/S/57462).
Personal Skills and Competences	
Native language	română
Foreign Languages	English: B2 (Listening, Reading, Spoken Interaction, Spoken Production, Writing) – Cambridge English Level 1 Certificate in ESOL International. French: A2 (Listening, Reading, Writing), A1 (Spoken Interaction, Spoken Production).
Areas of Expertise	Physical Geography, Hydrology, Geographic Information Systems (GIS), Risk assessment
Membership in International and National Scientific Societies	<ol style="list-style-type: none"> 1. Member of the European Geosciences Union, since 2019. 2. Member of L'Association Francophone de Géographie Physique, 2016-2017. 3. Member of the Romanian Limnogeography Association, 2013-2014. 4. Member of the SystemIS Group Association, Iași, 2012-2016. 5. Secretary of the SystemIS Group Association, Iași, 2013-2014. 6. Member of the Romanian Ornithological Society (S.O.R.), 2013-2016, 2017-2020. 7. Member of the Romanian Geographical Society, 2021-2024.
Awards and Medals	<ol style="list-style-type: none"> 1. Certificate of participation in the workshop "Promotion and Dissemination in the Field of Sustainable Development and Environmental Protection," held as part of the POSDRU project (POSDRU/159/1.5/S/133391) in Sinaia, Prahova County, Romania, December 11-14, 2014, organized by the University of Bucharest. 2. CNCSIS Award, 2018, for the article: "Flood Vulnerability Assessment in the Mountain-Plateau Transition Zone: A Case Study of Marginea Village (Romania)," <i>Journal of Flood Risk Management</i>, 11(S1): S502-S513. 3. First Prize for the paper "Analysis of Snow-Drift Vulnerability. Application for Botoșani County" presented at the Young Geographers' Symposium, Cluj-Napoca, May 19-20, 2012. 4. Award for the presentation "Flood Vulnerability for Transition Areas. Case Study for the Eastern Carpathian Mountains (Romania)" at the International Conference on Innovation, Sustainability, Technology, and Education in Civil Engineering, June 13-15, 2019, Iskenderun, Turkey. 5. UAIC Award No. 16526, dated September 29, 2020, for the publication:

- "Dam Breach Size Comparison for Flood Simulations. A HEC-RAS Based, GIS Approach for Drăcșani Lake, Sitna River, Romania," *Water*, 12(4), 1090.
6. CNCSIS Award, 2020, for the article: "Assessment of Flash Flood Susceptibility Potential in the Moldavian Plain (Romania)," *Journal of Flood Risk Management*, 13(4).
 7. CNCSIS Award, 2020, Project Registration PN-III-P1-1.1-PRECISI-2020-49167, for the article: Albu L.-M., Enea A., Iosub M., Breabăn I.-G. *Dam Breach Size Comparison for Flood Simulations. A HEC-RAS Based, GIS Approach for Drăcșani Lake, Sitna River, Romania*, *Water*, 12(4):1090.
 8. CNCSIS Award, 2021, for the article: "Multi-Scale Approach for Different Types of Drought in Temperate Climatic Conditions," *Natural Hazards*, Springer, 1-25.
 9. CNCSIS Award, 2020, for the article: "Groundwater Resources from Eastern Romania under Human and Climatic Pressure," *Sustainability*, 12(24), 10341.
 10. UAIC Award No. 1531, dated January 29, 2021, for the publication: "Groundwater Resources from Eastern Romania under Human and Climatic Pressure," *Sustainability*, 12(24), 10341.
 11. CNCSIS Award, 2023, for the article: "Identification of Seasonal and Annual Groundwater Level Trends in Temperate Climatic Conditions," *Frontiers in Environmental Science*, 10:852695.

Technical and GIS Skills

- Advanced knowledge of Microsoft Office™ Suite (Word™, Excel™, PowerPoint™), Open Office.
- Advanced and intermediate skills in various geospatial data processing software: Tnt Mips Microimage, ArcGIS, HEC-RAS, R2V, Global Mapper, Philcarto, Google Earth, GRASS GIS, R.
- Advanced skills in using HEC-RAS software for flood simulations.
- Basic knowledge of database management and processing software (SQL, PostgreSQL).
- Basic knowledge of Latex for text processing.

Organizational Skills

- Member of the organizing committee for the "Dimitrie Cantemir" International Geographical Seminar, editions 2014, 2017, 2018, 2019.
- Member of the organizing committee for the International Symposium "Present Environment and Sustainable Development," editions 2016-2024.
- Member of the organizing committee for the International Symposium "Geographical Information Systems", editions 2017, 2023, 2024.
- Secretary of the admissions committee and coordinator of the online admission process at the Faculty of Geography and Geology, 2024.

Extracurricular GIS Activities

- **Membership in Student Scientific Circles:** I am a member of several student scientific circles, including "Envirogis," "GIS de la zero," and "GISturis" within the Faculty of Geography and Geology. These groups focus on territorial mapping and analysis. Through these workshops, I have honed my skills in various GIS programs and developed competencies in managing small groups of students.
- **Project Participation:** I have been involved in the snow-drift vulnerability project since 2011, coordinated by Lecturer Dr. Lucian Sfică. The project's

objective was to create vulnerability maps for the transportation network in Moldova in the context of snow-drifts. This project yielded significant results, including the production of desired maps, the creation of a mathematical method to calculate snow-drift vulnerability, and considerable visibility in the media.

Editorial activities

- **Manuscript editor** for the journal East European Journal of Geographical Information Systems and Remote Sensing: www.geomatica.uaic.ro
- **Technical Editor** for volumes 16.1/2022, 16.2/2022, and the introduction of international databases in Present Environment and Sustainable Development journal.
- **Technical Editor and Assistant Editor** for volumes 17.1/2023, 17.2/2023, 18.1/2024, and the introduction of international databases (DOAJ) in Present Environment and Sustainable Development journal.
- **Guest Editor** for the special issue "Flood Early Warning and Risk Modelling" in the journal Hydrology.
- **Guest Editor** for the special issue "Machine Learning and Automation in Remote Sensing Applied in Hydrological Processes" in the journal Remote Sensing.

Committee Memberships

Secretary Roles: Secretary in the bachelor and master committees for the Department of Geography, Faculty of Geography and Geology, during the period 2022-2025.

List of Published Scientific Works (Annex 1):

Scientific Articles: 45 articles, of which 9 were authored as the first author. Of these, 15 are published in ISI-indexed journals with an impact factor, 16 are in proceedings of ISI-indexed conferences, and 16 are published in BDI-indexed journals. Among these, 31 were published abroad.

List of Works Presented at Scientific Conferences (Annex 2):

Scientific Presentations: 113 scientific works presented, of which 37 were at international conferences held abroad, across 23 scientific events (Ireland, Austria, Macedonia, Turkey, Spain, etc.), and 76 in Romania, across 50 scientific events.

Citations in Specialist Literature (Annex 3):

Total Citations: 411 citations of my contributions in scientific publications or books. Among these, 178 citations are in Web of Science-indexed journals with an impact factor, 52 are in Web of Science-indexed journals without an impact factor, 83 are in BDI-indexed journals, 53 in books published abroad, and 45 in books published in Romania.

List of Academic Research Contracts (Annex 4)

- Director of one national academic research contract.
- Member in three national academic research contracts and two projects funded through structural funds and grants.

List of Research Contracts in the Private Sector (Annex 5):

Member in 4 private sector research contracts, which involved creating GIS mapping studies for Natura 2000 sites, protected areas, or protected species.

Teaching Activity:

Practical Work/Seminars

Subject	Specialization/Series	Year
General Physical	Tourism Geography / 2015 - 2025	1

<i>Geography</i>	<i>Environmental Geography / 2017-2018, 2020-2025</i>	<i>1</i>
	<i>Geography / 2020-2020, 2021-2025</i>	<i>1</i>
	<i>Territorial Planning / 2020-2025</i>	<i>1</i>
	<i>Hydrology and Meteorology / 2021-2025</i>	<i>1</i>
<i>Hydrology and Oceanography</i>	<i>Geography / 2017-2020</i>	<i>1</i>
	<i>Tourism Geography / 2013-2021</i>	<i>1</i>
	<i>Territorial Planning / 2018-2021</i>	<i>1</i>
	<i>Environmental Geography / 2017-2018, 2020-2023</i>	<i>1</i>
	<i>Tourism Geography (english) 2023-2025</i>	<i>1</i>
<i>Geography of the Black Sea</i>	<i>Hydrology and Meteorology / 2014-2016</i>	<i>3</i>
<i>Geography of Europe</i>	<i>Geography / 2017-2018</i>	<i>1</i>
<i>Water Resources Management</i>	<i>Geografia Mediului / 2019-2020</i>	<i>2</i>
	<i>Hydrology and Meteorology / 2019-2020</i>	
<i>Climate and Hydrology of Romania</i>	<i>Hydrology and Meteorology / 2021-2025</i>	<i>3</i>
<i>Applied Informatics in Tourism</i>	<i>Tourism Geography / 2022 - 2024</i>	<i>1</i>
<i>Applied Informatics in Geosciences</i>	<i>Environmental Geography / 2023-2024</i>	<i>1</i>
	<i>Hydrology and Meteorology / 2023-2024</i>	
<i>Methodology of Geographical Research</i>	<i>Territorial Planning / 2023-2024</i>	<i>2</i>

Courses

Disciplina	Specializarea/Serie	Anul
<i>Methodology of Geographical Research</i>	<i>Territorial Planning / 2023-2024</i>	<i>2</i>

Organization of field trips and specialized practice:

Specialized Practice	Month/Year
Field Practice with Students in the Rarău Massif (Bachelor's Year 1)	July-August 2024
Field Practice with Students in Maramureș (Bachelor's Year 2)	May 2024
Field Practice with Students in the Rarău Massif (Bachelor's Year 1)	July 2023 (*2)
Field Practice with Students in the Rarău Massif (Bachelor's Year 1)	July 2022
Field Practice with Students in Maramureș (Bachelor's Year 2)	May 2022
Field Practice with Students in the Rarău Massif (Bachelor's Year 1)	July 2021

Field Practice with Students in Roşia Montană Area (Master's Year 1)	July 2019
Field Practice with Students in the Rarău Massif (Bachelor's Year 1)	Iunie, iulie 2019
Field Practice with Students in Maramureş (Bachelor's Year 2)	May 2019
Field Practice with Students in the Rarău Massif (Bachelor's Year 1)	June, July 2018
Field Practice with Students in Maramureş (Bachelor's Year 2)	April – May 2018
Field Practice with Students in the Rarău Massif (Bachelor's Year 1)	June 2017
Field Practice with Students in Maramureş (Bachelor's Year 2)	April – May 2017
Field Practice with Students in Danube Delta – Agigea – Balcik – Iasi (Bachelor's Year 2)	May 2016

International Placements

- *Sani Resort, Halkidiki, Greece* - hotel internship through the Erasmus program, June 27 - September 27, 2010.
- *Adelais Hotel, Tavronitis, Chania, Crete, Greece* - hotel internship through the Erasmus program, June 14 - September 14, 2009.
- *Pamukkale University, Denizli, Turkey* - teaching mobility through Erasmus + KA131 teaching staff exchange mobility, September 23-27, 2024.

Reviewer for the Following Journals

- *Water, Energies, Sustainability, Hydrology, Journal of Marine Science and Engineering, Remote Sensing, Climate, Land, Glaciers (MDPI).*
- *Natural Hazards (Springer).*
- *Geocarto International (Taylor & Francis).*
- *Works of the International "Dimitrie Cantemir" Symposium (UAIC).*
- *Present Environment and Sustainable Development (UAIC).*

List of published scientific works

a). In Web of Science cited journals with impact factor

1. Romanescu Gh., Hapciuc O.E., Sandu I., Minea I., Dascalita D., Iosub M. 2016, Quality indicators for Suceava river, *Revista de Chimie*, vol. 67(2), 245 – 249 (**IF: 1.232, AIS: 0.057**)
2. Romanescu Gh., **Iosub M.**, Sandu I., Minea I., Enea A., Dascalita D., Hapciuc O.E. 2016, *Spatio-temporal analysis of the water quality of the Ozana river*, *Revista de Chimie*, vol 67(1), 42 – 47 (**IF: 1.232, AIS: 0.057**)
3. Enea A., Hapciuc O.E., **Iosub M.**, Romanescu Gh., *Water quality assessment for the mountain region of Eastern Romania*, *Environmental Engineering and Management Journal*, 2017, vol. 16, nr. 3, 605-614 p. (**IF: 1.334, AIS: 0.086**)
4. Romanescu Gh., Hapciuc O.E., Minea I., **Iosub M.** 2018, *Flood vulnerability assessment in the mountain-plateau transition zone. Case study for Marginea village (Romania)*, *Journal of Flood Risk Management*, 11, pp. S502-S513, DOI: 10.1111/jfr3.12249, (**IF: 3.24, AIS: 0.682**) – Q2
5. **Iosub M.**, Minea I., Chelariu O.E., Ursu A. 2020, *Assessment of flash flood susceptibility potential in Moldavian Plain (Romania)*, *Journal of Flood Risk Management*, Article Number: e12588, 13(4), DOI:10.1111/jfr3.12588, (**IF: 3.884, AIS: 0.757**) (drepturi egale) – Q1
6. Albu L.-M., Enea A., **Iosub M.**, Breabă I.-G., 2020, *Dam Breach Size Comparison for Flood Simulations. A HEC-RAS Based, GIS Approach for Drăcșani Lake, Sitna River, Romania*, *Water*, 12(4), 1090. <https://doi.org/10.3390/w12041090>, (**IF: 3.103, AIS: 0.5**) (drepturi egale) – Q2
7. Minea I., **Iosub M.**, Boicu D., 2020, *Groundwater Resources from Eastern Romania under Human and Climatic Pressure*, *Sustainability*, 12(24), 10341 <https://doi.org/10.3390/su122410341>, (**IF: 3.251, AIS: 0.462**) (drepturi egale)
8. Minea, I., **Iosub, M.**, & Boicu, D. (2021). *Multi-scale approach for different type of drought in temperate climatic conditions*. *Natural Hazards*, 1-25. <https://doi.org/10.1007/s11069-021-04985-2> (**IF: 3.158, AIS: 0.687**) (autor corespondent)
9. Minea I., Boicu D., Chelariu O.E., **Iosub M.**, Enea A., 2022. *Assessment of recharge capacity potential of groundwater using comparative Multi-Criteria Decision Analysis approaches*, *Journal of Geographical Sciences*, 32(4):735-756. (**IF: 4.012, AIS: 0.686**) (drepturi egale)
10. Minea I, Boicu D, Amihăiesei V and **Iosub M** (2022) *Identification of Seasonal and Annual Groundwater Level Trends in Temperate Climatic Conditions*. *Front. Environ. Sci.* 10:852695. doi: 10.3389/fenvs.2022.852695 (**IF: 5.411, AIS: 1.165**)
11. Enea, A., Iosub, M., & Stoleriu, C. C. (2023). *A Low-Cost, UAV-Based, Methodological Approach for Morpho-Metric Analysis of Belci Lake Dam Breach, Romania*. *Water*, 15(9), 1655. (**F: 3, AIS: 0.529**) (drepturi egale) – Q2
12. Jitariu, V., Ichim, P., **Iosub, M.** (2023). *Spatial dynamics and changes in northeastern Romania's orchard landscape over the last century*. *Present Environment & Sustainable Development*, 17(1), 183-201. (**IF: 0.7, AIS: 0.057**)
13. Albulescu, A. C., Minea, I., Larion, D., Iosub, M., & Boicu, D. (2023). *Mapping over 80 years of wetland sensitivity to human intervention. The spatial dynamics of the lakes and wetlands of the Jijia-Iași Wetlands Ramsar Site in 1935–2018*. *Journal of Environmental Engineering and Landscape Management*, 31(4), 275-287. (**IF: 1.3, AIS: 0.309**)
14. Covaci, O.; Gazda, M.R.; Niga, B.I.; Enea, A.; Iosub, M.; Tirnovan, A. (2023) *Automation of the Rational Formula using GIS infrastructure – Case study Siret River Basin – Romania*, *Present Environment & Sustainable Development*, 17(2). (**IF: 0.7, AIS: 0.057**)

15. Enea, A., Stoleriu, C. C., **Iosub, M.**, & Niacsu, L. (2024). A GIS Automated Tool for Morphometric Flood Analysis Based on the Horton–Strahler River Classification System. *Water*, 16(4), 536. ((**F: 3**, **AI5: 0.529**) Q2

b). In Web of Science cited journals without impact factor

1. Hapciuc, O. E., Romanescu, G., Minea, I., Iosub, M., Enea, A., & Sandu, I. (2016). Flood susceptibility analysis of the cultural heritage in the Sucevita catchment (Romania). *International Journal of Conservation Science*, 7(2).

c). In Web of Science indexed conference volumes without impact factor

1. **Iosub M.**, Enea, A., Hapciuc, O. E., Romanescu, G., Minea I., 2014, *Flood risk assessment for the Ozana river sector corresponding to Leghin village, Romania*, 14th SGEM GeoConference on Water Resources. Forest, Marine and Ocean Ecosystems, SGEM2014 Conference Proceedings, Vol. 1, 315-322 p., ISBN 978-619-7105-13-1, ISSN 1314-2704, DOI: 10.5593/sgem2014B31;
2. **Iosub M.**, Iordache I., Enea A., Romanescu G., Minea I., 2015, *Spatial and temporal analysis of dry/wet conditions in Ozana drainage basin, Romania using the Standardized Precipitation Index*, International Multidisciplinary Scientific GeoConference – SGEM, Albena, Bulgaria, 585-592 p., ISBN 978-619-7105-36-0/ISSN 1314-2704, DOI: 10.5593/SGEM2015/B31/S12.075;
3. Verdeanu A., **Iosub M.**, Enea A., Romanescu G., 2015, *An application of GIS for identifying new, potential railway routes in the central and southern divisions of the Eastern Carpathian Mountains, Romania*, International Multidisciplinary Scientific GeoConference – SGEM din Albena, Bulgaria, ISBN 978-619-7105-35-3 / ISSN 1314-2704, DOI: 10.5593/SGEM2015/B22/S11.082;
4. Albu M., Enea A., Romanescu G., **Iosub M.**, Stoleriu C. C., 2015, *Polarization areas of lakes, as quantitative water resources*, 15th International Multidisciplinary Scientific GeoConference SGEM2015 Conference Proceedings, ISBN 978-619-7105-36-0 / ISSN 1314-2704, June 18-24, 2015, Book3 Vol. 1, 509-516 pp
5. Enea A., Romanescu G., Stoleriu C.C., **Iosub M.**, Albu M., 2015, *Evolution of river meandering and sinuosity ratio in Tazlau river basin, Romania*, 15th International Multidisciplinary Scientific GeoConference SGEM 2015, SGEM2015 Conference Proceedings, vol. 1, Hydrology and Water Resources, 285-292 p.; DOI: 10.5593/SGEM2015/B31/S12.037;
6. **Iosub M.**, Tomaşciuc A.I., Hapciuc O.E., Enea A., 2016, *Flood risk analysis in Suceava city, applied for it's main river course*, Geobalcanica 2nd International Scientific Conference, Physical Geography; Cartography; Geographic Information Systems & Spatial Planing, 111 – 118 p., <http://dx.doi.org/10.18509/GBP.2016.15>;
7. Albu M., Stoleriu C.C., Enea A., **Iosub M.**, Hapciuc O.E., Romanescu G., 2016, *Geomorphologic risk assessment in Tecucel drainage basin, using GIS techniques*, Proceedings, 2nd International Scientific Conference Geobalcanica 2016, 10-12 June, 2016, Skopje, Republic of Macedonia, 95-102 p., <http://dx.doi.org/10.18509/GBP.2016.13>;
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e) Works published in volumes of scientific events abroad (full text)

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20. Minea I., Boicu D., **Iosub M.**, 2021, *Multi-scale approach for hydrogeological drought in Moldavian Plateau*, Lucrările Seminarului Geografic Internațional "Dimitrie Cantemir", Editia a XLI-a 3-5 septembrie 2021, Iași, 28-29 p.

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27. Iosub M., Lesenciuc D., Breaban I.G., Ursu A., 2022, Preliminary quantitative assessment and spatial distribution of tailings ponds in Romania. PESD, 3-4 June 2022, Iași, România, pp. 75-76

g) Publications appearing in Web of Science indexed journals as editorials

1. **Iosub M.**, Enea A. Flood Early Warning and Risk Modelling. Hydrology. 2022; 9(4):57. <https://doi.org/10.3390/hydrology9040057>

h) Book chapters published in publishing houses abroad

1. Minea I., **Iosub M.**, Enea A., Boicu D., Chelariu O.E., 2022, Hydrological Extremes Anomalies and Trends in Lower Danube Basin: Case Study—Romanian Drainage Area Between Siret and Prut Rivers. In *The Lower Danube River*; Editors: Negm A., Zaharia L., Toroimac G.I.; Springer Cham, ISSN 2730-6674; DOI: 10.1007/978-3-031-03865-5; pp. 381-401.

i) Books published in publishing houses in Romania

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2. C. C. Stoleriu, A. Enea, **M. Iosub**, "Atlasul vulnerabilității morfometrice la inundații din România", Editura Terra Nostra, Iasi, 2023, 98 pagini, ISBN 978-606-623-163-3

List of papers presented at scientific events

a. Participation in national or international symposiums, congresses, conferences, seminars, workshops (held in Romania)

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5. **Iosub M.**, Enea A., Romanescu G., *Calculul secțiunii active a unui râu utilizând tehnicile de prelucrare a imaginilor. Studiu de caz: bazinul superior al râului Ozana*, Lucrările Seminarului Geografic Internațional "Dimitrie Cantemir", 18 octombrie 2013, Iași

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12. Hapciuc O.E., **Iosub M.**, Minea I., Romanescu Gh. - *Metodologie privind evaluarea vulnerabilității la inundații pentru comunitățile rurale din partea de nord-est a României*, PESD, 5-7 iunie 2015, Iași

13. **Iosub M.**, Iordache I., Enea A., Hapciuc O.E., Romanescu Gh., Minea I. - *SPI, De Martonne Indexes and Hellman Criterion, used for drought analysis in Ozana drainage basin*, PESD, 5-7 iunie 2015, Iași.

14. Enea A., Hapciuc O.E., **Iosub M.**, Minea I., Romanescu GH. – *Water quality assessment for the mountain region of Eastern Romania*, 8th International Conference on Environmental Engineering and Management, 9 – 12 septembrie 2015, Iași

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Enea A., Romanescu G., Iosub M., Stoleriu C., Hapciuc O.E., 2014, <i>The relationship between the morphometric characteristics and river network of the Tazlău river basin, hierarchised according to the Horton-Strahler System</i> , Water resources and wetland, 59 – 66 p.	20. Romanescu G., 2018, Inundațiile: calamitate sau normalitate? Studii de caz: bazinele hidrografice Prut și Siret (România), Editura Transversal, Târgoviște
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<p>Verdeanu A., Iosub M., Enea A., Romanescu G., 2015, <i>An application of GIS for identifying new, potential railway routes in the central and southern divisions of the Eastern Carpathian Mountains, Romania</i>, International Multidisciplinary Scientific GeoConference – SGEM din Albena, Bulgaria</p>	<p>28. Romanescu G., 2018, Inundațiile: calamitate sau normalitate? Studii de caz: bazinele hidrografice Prut și Siret (România), Editura Transversal, Târgoviște</p>
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<p>Hapciuc O.E., Minea I., Iosub M., Romanescu G., 2015, <i>The role of the hydro-climatic conditions in causing high floods in the Sucevita river</i></p>	<p>32. Romanescu G., 2018, Inundațiile: calamitate sau normalitate? Studii de caz: bazinele hidrografice Prut și Siret (România), Editura Transversal, Târgoviște</p>
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	<p>39. A.-E. Croitoru, A. Piticar, L. Sfică, G.-V. Harpa, C.-F. Roșca, T. Tudose, C. Horvath, I. Minea, F.-A. Ciupertea, A.-S. Scripcă, 2018, <i>Extreme temperature and precipitation events in Romania</i>, Editura Academiei Române București, 360 p.</p>
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	<p>41. O.-E. Chelariu, 2020, <i>Managementul riscului la inundații în bazinul hidrografic al râului Sucevița</i>, Editura Universității “Alexandru Ioan Cuza” din Iași, 188 p.</p>

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<p>Hapciuc O.E., Iosub M., Tomașciuc A.I., Minea I., Romanescu Gh., 2016, <i>Identification of the potential risk areas regarding the floods occurrence within small mountain catchments</i>, Geobalcanica 2nd International Scientific Conference, 177 -183 p.,</p>	<p>42. O.-E. Chelariu, 2020, Managementul riscului la inundații în bazinul hidrografic al râului Sucevița, Editura Universității “Alexandru Ioan Cuza” din Iași, 188 p.</p>
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<p>Iosub M., Minea I., Chelariu O.E., Ursu A. 2020, <i>Assessment of flash flood susceptibility potential in Moldavian Plain (Romania)</i>, Journal of Flood Risk Management, Article Number: e12588, 13(4)</p>	<p>44. O.-E. Chelariu, 2020, Managementul riscului la inundații în bazinul hidrografic al râului Sucevița, Editura Universității “Alexandru Ioan Cuza” din Iași, 188 p.</p>
<p>Minea, I., Mișu-Pintilie, A., Marina, I., & Oana, H. "Preliminary evaluation on the ratio between the surface and underground river supply in eastern Romania." Aerul și Apa. Componente ale Mediului (2014): 150.</p>	<p>45. O.-E. Chelariu, 2020, Managementul riscului la inundații în bazinul hidrografic al râului Sucevița, Editura Universității “Alexandru Ioan Cuza” din Iași, 188 p.</p>

a. List of scientific research contracts in the academic environment/Projects from structural and grant-type funds

Scientific research contracts

National				
No.	Project title, identification data	Period	Sum	No. members
		Achievements		
Director				
1.	<i>Quantitative evaluation of the tailings dam breach phenomenon and its consequences on the environment</i> , cod proiect GI-UAIC-2022-06, "Alexandru Ioan Cuza" University of Iași, Faculty of Geography and Geology	2023-2025	50000lei	1
Collaboration				
1.	<i>Vulnerability of Groundwater Resources from the Moldavian Plateau to Climate Change</i> (acronim CHUWAT), cod proiect PN-III-P1-1.1-TE-2019-0286, director Ionuț Minea – "Alexandru Ioan Cuza" University of Iași, Faculty of Geography and Geology https://www.geo.uaic.ro/chuwat/	2020-2022	379,340 lei	6
		4 articole publicate		
2.	<i>Open Source Spatial Data Infrastructure for Soil Cartography and Land Management</i> , cod proiect PN-III-P2-2.1-PED-2019-5436, director Bogdan Roșca - Romanian Academy, Iași Branch	2021	597.535 lei	6
3.	<i>Freshwater Environments' Susceptibility to Plastic Pollution (SAFE-PP)</i> (acronim SAFE-PP) cod proiect PN-III-P1-1.1-TE-2021-0075, director Florin Constantin Mihai, UAIC, D "Alexandru Ioan Cuza" University of Iași, CERNESIM Department, Interdisciplinary Research Institute (ICI) https://www.geo.uaic.ro/safepp/	2022-2024		6

Projects funded through structural funds and grants

Collaboration				
No.	Project title, identification data	Period	Sum	No. members
		Achievements		
National				
	Secondary Education Project (ROSE), Non-competitive grant scheme for universities, sub-project "Become a graduate of the Faculty of Geography and Geology in Iași - GeoDA" - AG 31/SGU/NC/I, financed by IBRD, running period 2017- 2020, Faculty of Geography and Geology, UAIC, Grant Manager: Lect.dr. Alexandru Banica.	2017-2020	678119 (UAIC) 3 ani	5+15
	ROSE FiiGEO project (Choose to be a Geography and Geology graduate), project no. 349/SGU/SS/III of 09/08/2020, financed by the MEC, 2020 - 2022, Project Manager: Alina Munteanu	2020-2021	149.991,5 €	

List of research contracts in the private sector

No.	Project title, identification data	Period	Role
1.	<i>"Elaboration of Management Plans for the protected areas Belcești Accumulations, Jijia Inferioara Prut Salts, Jijiea and Miletinului Eleșteiele and Teiva Vișina Balta", code SMIS 2014+ 101991. Beneficiary Romanian Ornithological Society (SOR/BirdLife Romania), B-dul Hristo Botev, no . 3, sector 3, Bucharest, Romania.</i>	October 2017 – April 2020	Expert GIS
2.	<i>"Efficient management in the Natura 2000 sites: ROSCI0276 Albesti, ROSCI0417 Manoleasa, ROSCI 0317 Cordareni-Vorniceni and ROSCI 0234 and the Stanca Costesti reserve, Botosani County."</i>	October 2017- October 2018	Expert GIS
3.	<i>"European Ground Squirrel Population from Eastern Romania"</i>	May 2013 – May 2014	Expert GIS
4.	<i>"Services for the realization of the support studies, the necessary maps and the management plan within the project POIM 2014-2020 - Biodiversity management through the realization of the management plan of the protected natural area ROSPA0065 Lacurile Fundata Amara" SMIS 124414.</i>	April 2023 – June 2023	Expert Mediu Abiotic