




MEMBER PROFILE

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Study areas	
Countries / Regions	Romania

Topics of last three projects	
1	Romanian – Bulgarian cross-border joint natural and technological hazards assessment in the Danube floodplain. The Calafat-Vidin - Turnu Măgurele-Nikopole sector
2	Enabling Climate Information Service for Europe
3	Settlements and environmental vulnerability to floods in Romania in the context of global environmental change

	<u>Topics of last 10 publications</u>	<u>Publication links</u>
1	Butaciu S, Senila M, Sarbu C, Ponta M, Tanaselia C, Cadar O, Roman M, Radu E, Sima M, Frentiu T (2017), Chemical modeling of groundwater in the Banat Plain, southwestern Romania, with elevated As content and co-occurring species by combining diagrams and...	http://dx.doi.org/10.1016/j.chemosphere.2016.12.130
2	Sima Mihaela, Enciu Petru, Kucsicsa Gheorghe, Bela Abraham (2013), Water quality in the rural communities of the Romanian Danube Floodplain (Calafat-Turnu Magurele sector), The 13th International Multidisciplinary Scientific GeoConference SGEM, 16-22 iuni	DOI:10.5593/SGEM2013/BC3/S12.058
3	Micu Dana, Sima, Mihaela, Dumitraşcu, Monica, Grigorescu, Ines, Dragotă, Carmen-Sofia (2015), Flash floods risk perception to support social resilience in the Bend Subcarpathians, Romania, SGEM Conference Proceedings „Water Resources. Forest, Marine and O	http://sgem.org/sgemlib/spip.php?article5943
4	Chendeş V., Bălţeanu D., Micu Dana, Sima Mihaela, Ion B., Grigorescu Ines, Persu Mihaela, Dragotă Carmen (2015), A database design of major past flood events in Romania from national and international inventories, LUCRĂRILE CONFERINŢEI AERUL ŞI APA COMPO	http://aerapa.conference.ubbcluj.ro/2015/PDF/04_C_HENDES_etal_25_32.pdf
5	Sima Mihaela, Popovici Elena-Ana, Bălţeanu Dan, Micu Dana, Kucsicsa Gheorghe, Dragotă Carmen and Grigorescu Ines (2015) A farmer-based analysis of climate change adaptation options of agriculture in the Baragan Plain, Romania, Earth Perspectives, 2:5, Spr	DOI 10.1186/s40322-015-0031-6
6	Sima M, Micu D, Balteanu D, Dragota C, Mihalache S (2016), Climate Change Projections for a Medium-Size Urban Area (Baia Mare Town, Romania): Local Awareness and Adaptation Constraints. W. In: Leal et al. (eds.), Implementing Climate Change Adaptation in	
7	Muerth, M., Dogaru, D., Sima, M., Balteanu D., Mauser, W. (2014). Transboundary collaboration on a Global Change Atlas of water resources, agriculture and renewable energies in the Danube Region, XXVI Conference of the Danubian Countries, 271-274, Daggend	
8	Sima, M., Dold, B., Frei, L., Şenilă, M., Balteanu, D., Zobrist, J. (2011), Sulfide oxidation and acid mine drainage formation within two active tailings impoundments in the Golden Quadrangle of the Apuseni Mountains, Romania, Journal of Hazardous Materia	
9	Zobrist J., Sima M., Dogaru D., Senila M., Yang H., Popescu C., Roman C., Bela A., Frei L., Dold D., Balteanu D. (2009), Environmental and Socioeconomic Assessment of Impacts by Mining Activities –A Case Study in the Certej River Catchment, Western Car	
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Research interests in water

Climate & Water	Water in arid areas	Arctic water	Water cycle	Atmospheric water	Glaciers & Cryosphere					
Hydrological extreme events	Floods	Droughts	Ice phenomena							
Water flow	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porewater	Alluvial water			
Surface water	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	Rivers	Floodplains			
Ground water	Soil water	Karst water	Hydrogeology	Recharge						
Marine Environment	Coastal waters	Estuarian waters								
Aquatic habitats/ Ecosystems	Wetlands	Lakes	Peatlands	Rivers						
Water availability	Water utility	Water storage	Dams / Reservoirs	Water scarcity	Supply & Distribution	Water allocation	Water restrictions			
Modelling and GIS	Hydro GIS	Groundwater modelling	Surface water modelling	Remote sensing						
Water quality	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
Water & Health	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
Water & Energy	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
Water management/ policy	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
Water use	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	Water sustainability	Competing water use
Water Law & Economics	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
Socio-political aspects	Water history	Water wars	Water & Poverty	Access to water						