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Study areas

Countries **Romania**

Region **Region**

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

Envisioned activities in Commission

attend/ organise meetings **Yes**

contribute to publications **Yes**

read newsletter **Yes**

joint research, collaboration **Yes**

Other (please specify)

Research interests in water (select maximum 10)

Climate & Water	Hydrological extreme events	Water flow	Surface water	Ground water	Marine Environment	Aquatic habitats/ Ecosystems	Water availability
Water in arid areas	Floods ☒	Catchment processes ☒	Limnology	Soil water	Coastal waters	Wetlands	Water utility
Arctic water	Droughts	Run-off generation	Fluvial dynamics ☒	Karst water	Estuarian waters	Lakes	Water storage
Water cycle	Ice phenomena	Groundwater-Surface water interactions	Continental scale processes	Hydrogeology		Peatlands	Dams / Reservoirs
Atmospheric water		Hyporheic processes	Dams / Reservoirs	Recharge		Rivers	Water scarcity
Glaciers & Cryosphere		Interstitial water	Sediments ☒				Supply & Distribution
		Porwater	Rivers				Water allocation
		Alluvial water	Floodplains				Water restrictions

Modelling and GIS	Water quality	Water & Health	Water & Energy	Water management/ policy	Water use	Water Law & Economics	Socio-political aspects
Hydro GIS	Pollution ☒	Water & Sanitation	Water-Energy nexus	Integrated Catchment management	Urban	Water trade	Water history
Groundwater modelling	Purification	Water & Food	Water for energy	Integrated water resource management	Agricultural ☒	Virtual water	Water wars
Surface water modelling	Hydrochemistry	Waterborne diseases	Energy for water	Water loss	Mine water ☒	Privatisation	Water & Poverty
Remote sensing	Treatment	Drinking water ☒	Water, Food & Energy	Reticulation & Supply	Industrial	Water as public good	Access to water
	Desalination	Water purification		Transboundary water	Grey water	Right to water	
	Waste water				Green water	Bills & Laws	
	Sewage				Blue water	Affordability	
					Return water		
					Water sustainability		
					Competing water use		

Other (please specify)

other areas of interest

Research interests in water (supply 5 keywords)

water contamination

flood hazard

sediment dynamics and contamination

people perception on hydrological-related hazards

climate change impacts on agricultural water use

Topics of last 10 publications

Publication links

Topics of last 10 publications	Publication links
1 Butacu 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, Kucscsa 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/BC3/512.058.
3 Micu Dana, Sima, Mihaela, Dumitracu, Monica, Grigorescu, Ines, Dragota, 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., Bălăneanu 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 CONFERINTEI AERUL ŞI APA COMPO	http://aerapa.conference.ubbcluj.ro/2015/PDF/04_CHENDES_et al_25_32.pdf
5 Sima Mihaela, Popovici Elena-Ana, Bălăneanu Dan, Micu Dana, Kucscsa 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, Bălăneanu 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	6
7 Muertth, M., Dogaru D., Sima, M., Bălăneanu 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	7
8 Sima, M., Dold, B., Frei, L., Şenilă, M., Bălăneanu 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	8
9 Zobrist J., Sima M., Dogaru D., Senila M., Yang H., Popescu C., Roman C., Bela A., Frei L., Dold D., Bălăneanu D. (2009), Environmental and Socioeconomic Assessment of Impacts by Mining Activities –A Case Study in the Certej River Catchment, Western Car	9
10 10	10