Ioana Popescu

List of Publications by Year
in descending order

69 papers	1,917 citations	304743 22 h-index	265206 42 g-index
75 all docs	75 docs citations	75 times ranked	2456 citing authors

#	ARTICLE	IF	CITATIONS
1	Main concepts of the "European approach" to karst-groundwater-vulnerability assessment and mapping. Hydrogeology Journal, 2002, 10, 340-345.	2.1	207
2	Parametric and physically based modelling techniques for flood risk and vulnerability assessment: A comparison. Environmental Modelling and Software, 2013, 41, 84-92.	4.5	177
3	River cross-section extraction from the ASTER global DEM for flood modeling. Environmental Modelling and Software, 2012, 31, 37-46.	4.5	128
4	Climate change impact on flood hazard, vulnerability and risk of the Long Xuyen Quadrangle in the Mekong Delta. International Journal of River Basin Management, 2012, 10, 103-120.	2.7	109
5	Citizen observations contributing to flood modelling: opportunities and challenges. Hydrology and Earth System Sciences, 2018, 22, 1473-1489.	4.9	100
6	Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. Reviews of Geophysics, 2018, 56, 698-740.	23.0	90
7	A review of applications of satellite SAR, optical, altimetry and DEM data for surface water modelling, mapping and parameter estimation. Hydrology and Earth System Sciences, 2015, 19, 3755-3769.	4.9	86
8	Evolution of the Bengal Delta and Its Prevailing Processes. Journal of Coastal Research, 2016, 321, 1212-1226.	0.3	72
9	A study of the climate change impacts on fluvial flood propagation in the Vietnamese Mekong Delta. Hydrology and Earth System Sciences, 2012, 16, 4637-4649.	4.9	62
10	The Critical Importance of Citizen Science Data. Frontiers in Climate, 2021, 3, .	2.8	59
11	A GIS-based assessment of maximum potential hydropower production in La Plata basin under global changes. Renewable Energy, 2013, 50, 103-114.	8.9	57
12	Application of model trees and other machine learning techniques for algal growth prediction in Yongdam reservoir, Republic of Korea. Journal of Hydroinformatics, 2010, 12, 262-274.	2.4	52
13	Cloud and cluster computing in uncertainty analysis of integrated flood models. Journal of Hydroinformatics, 2013, 15, 55-70.	2.4	40
14	Flood impact in the Mekong Delta, Vietnam. Journal of Maps, 2014, 10, 257-268.	2.0	39
15	Shatt al Arab River system under escalating pressure: a preliminary exploration of the issues and options for mitigation. International Journal of River Basin Management, 2015, 13, 215-227.	2.7	35
16	Application of a coastal modelling code in fluvial environments. Environmental Modelling and Software, 2011, 26, 1685-1695.	4.5	34
17	Linking SWAT and SOBEK Using Open Modeling Interface (OpenMI) for Sediment Transport Simulation in the Blue Nile River Basin. Transactions of the ASABE, 2011, 54, 1749-1757.	1.1	28
18	ICT for Efficient Water Resources Management: The ICeWater Energy Management and Control Approach. Procedia Engineering, 2014, 70, 633-640.	1.2	25

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19	Integrated modelling for flood risk mitigation in Romania: case study of the Timisâ€"Bega river basin. International Journal of River Basin Management, 2010, 8, 269-280.	2.7	24
20	Assessing residual hydropower potential of the La Plata Basin accounting for future user demands. Hydrology and Earth System Sciences, 2012, 16, 2813-2823.	4.9	24
21	Model-Based Optimization of Downstream Impact during Filling of a New Reservoir: Case Study of Mandaya/Roseires Reservoirs on the Blue Nile River. Water Resources Management, 2012, 26, 273-293.	3.9	24
22	Challenges in modelling river flow and ice regime on the Ningxiaâ€"Inner Mongolia reach of the Yellow River, China. Hydrology and Earth System Sciences, 2014, 18, 1225-1237.	4.9	24
23	MOBILE PHONE APPLICATIONS IN THE WATER DOMAIN. Environmental Engineering and Management Journal, 2012, 11, 919-930.	0.6	24
24	The Niger Delta's vulnerability to river floods due to sea level rise. Natural Hazards and Earth System Sciences, 2014, 14, 3317-3329.	3.6	23
25	Predicting the salt water intrusion in the Shatt al-Arab estuary using an analytical approach. Hydrology and Earth System Sciences, 2016, 20, 4031-4042.	4.9	23
26	Towards new types of water-centric collaboration. Water Management, 2010, 163, 39-51.	1.2	21
27	Anthropogenic and tidal influences on salinity levels of the Shatt al-Arab River, Basra, Iraq. International Journal of River Basin Management, 2016, 14, 357-366.	2.7	21
28	Flood risk assessment due to cyclone-induced dike breaching in coastal areas of Bangladesh. Natural Hazards and Earth System Sciences, 2019, 19, 353-368.	3.6	21
29	Comparison of sediment transport computations using hydrodynamic versus hydrologic models in the Simiyu River in Tanzania. Physics and Chemistry of the Earth, 2013, 61-62, 12-21.	2.9	19
30	An experience in knowledge mapping. Journal of Knowledge Management, 2005, 9, 123-128.	5.1	18
31	Google Android mobile phone applications for water quality information management. Journal of Hydroinformatics, 2013, 15, 1137-1149.	2.4	18
32	Educating for action: Aligning skills with policies for sustainable development in the Danube river basin. Science of the Total Environment, 2016, 543, 765-777.	8.0	18
33	Analysis of fresh-saline water interface at the Shatt Al-Arab estuary. International Journal of River Basin Management, 2015, 13, 17-25.	2.7	16
34	Flood inference simulation using surrogate modelling for the Yellow River multiple reservoir system. Environmental Modelling and Software, 2014, 55, 250-265.	4.5	15
35	Use of hydrodynamic models for the management of the Danube Delta wetlands: The case study of Sontea-Fortuna ecosystem. Environmental Science and Policy, 2015, 46, 48-56.	4.9	15
36	Assessing the sustainability of local resilience practices against sea level rise impacts on the lower Niger delta. Ocean and Coastal Management, 2016, 130, 221-228.	4.4	15

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37	Distance Learning in Support of Water Resources Management: An Online Course on Decision Support Systems in River Basin Management. Water Resources Management, 2012, 26, 1287-1305.	3.9	14
38	Effects of climate change over energy production in La Plata Basin. International Journal of River Basin Management, 2014, 12, 319-327.	2.7	12
39	Citizensâ€™ Campaigns for Environmental Water Monitoring: Lessons From Field Experiments. IEEE Access, 2019, 7, 134601-134620.	4.2	12
40	Analysis of Flood Storage Area Operations in Huai River Using 1D and 2D River Simulation Models Coupled with Global Optimization Algorithms. Geosciences (Switzerland), 2019, 9, 509.	2.2	12
41	DECISION SUPPORT SYSTEMS FOR FLOOD MANAGEMENT IN THE TIMIS BEGA CATCHMENT. Environmental Engineering and Management Journal, 2012, 11, 2305-2311.	0.6	10
42	WEB-BASED FLOOD INFORMATION SYSTEM: CASE STUDY OF SOMESUL MARE, ROMANIA. Environmental Engineering and Management Journal, 2013, 12, 1065-1070.	0.6	9
43	Analysis of Possible Actions to Manage the Longitudinal Changes of Water Salinity in a Tidal River. Water Resources Management, 2017, 31, 2157-2171.	3.9	8
44	Computational Hydraulics: Numerical Methods and Modelling. , 2014, , .		6
45	Proposal of a hydric index to support industrial site location decision-making applying a fuzzy multi-attribute methodology. Ecological Indicators, 2017, 83, 427-440.	6.3	6
46	Experiences from online and classroom education in hydroinformatics. Hydrology and Earth System Sciences, 2012, 16, 3935-3944.	4.9	6
47	Vulnerability and Exposure in Developed and Developing Countries. , 2015, , 125-162.		5
48	Applicability of a coastal morphodynamic model for fluvial environments. Environmental Modelling and Software, 2016, 80, 83-99.	4.5	5
49	SCENT: Citizen Sourced Data in Support of Environmental Monitoring. , 2017, , .		5
50	ON THE INFLUENCE OF BED FORMS ON FLOOD LEVELS. Environmental Engineering and Management Journal, 2013, 12, 857-863.	0.6	4
51	APPLICATION OF A WEB-BASED DECISION SUPPORT SYSTEM FOR WATER SUPPLY NETWORKS. Environmental Engineering and Management Journal, 2015, 14, 2087-2094.	0.6	4
52	Initiation of the Upper Mississippi River Basin Observatory. , 2010, , .		3
53	Decision Support System for Daily and Long Term Operations of the System of Milan, Italy. Procedia Engineering, 2016, 154, 58-61.	1.2	3
54	Optimization of water allocation in the Shatt al-Arab River under different salinity regimes and tide impact. Hydrological Sciences Journal, 2018, 63, 646-656.	2.6	3

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55	Salinity Control on Saigon River Downstream of Dautieng Reservoir Within Multi-objective Simulation-Optimisation Framework for Reservoir Operation. Lecture Notes in Computer Science, 2019, , 329-345.	1.3	3
56	TOWARDS INCREASED WATER AND ENERGY EFFICIENCIES IN WATER DISTRIBUTION SYSTEMS. Environmental Engineering and Management Journal, 2015, 14, 1271-1278.	0.6	3
57	Modeling the Inference between Upstream Inflow Hydrographs and Downstream Flooded Areas in a Reservoir Driven System. Procedia, Social and Behavioral Sciences, 2014, 108, 207-218.	0.5	2
58	LENVIS: A USER CENTRIC, WEB SERVICES BASED SYSTEM TO RETRIEVE, ANALYZE AND DELIVER ENVIRONMENTAL AND HEALTH INFORMATION. Environmental Engineering and Management Journal, 2012, 11, 889-897.	0.6	2
59	Approach on Modeling Complex Deltas in Data Scarce Areas: A Case Study of the Lower Niger Delta. Procedia Engineering, 2016, 154, 656-664.	1.2	1
60	SCENT INTEGRATED TOOLBOX FOR MONITORING FLOOD PHENOMENA. WIT Transactions on the Built Environment, 2018, , .	0.0	1
61	Optimal Operation of Flood Storage Areas in Huai River Using Coupled HEC-RAS River Model and NSGAII Global Optimization Algorithm. , 0, , .		1
62	EMBANKMENT FAILURE MODELING USING THE HR BREACH MODEL. Environmental Engineering and Management Journal, 2013, 12, 865-874.	0.6	1
63	CHALLENGES FOR 2D WATER QUALITY MODELLING OF LAKE TAIHU IN CHINA. Environmental Engineering and Management Journal, 2013, 12, 1031-1044.	0.6	1
64	Theoretical background: unsteady flow. , 0, , 21-30.		0
65	Modeling Extreme Flood Events in the Yellow River Using Unstructured Grids. Transactions of the ASABE, 2016, 59, 129-143.	1.1	0
66	Modelling support to citizen observatories for strategic Danube Delta planning: Sontea-Fortuna case study. Journal of Environmental Planning and Management, 2019, 62, 1972-1989.	4.5	0
67	Automated Updating of Land Cover Maps Used in Hydrological Modelling. Lecture Notes in Business Information Processing, 2019, , 498-506.	1.0	0
68	Application of Smooth Particle Hydrodynamics to Particular Flow Cases Solved by Saint-Venant Equations. Water (Switzerland), 2021, 13, 1671.	2.7	0
69	Uncertainty Analysis of Hydrodynamic Modeling of Flooding in the Lower Niger River Under Sea Level Rise Conditions. Springer Water, 2016, , 189-202.	0.3	0