

Tewfik Mahdi

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

241
citations

1039880

9
h-index

1125617

13
g-index

42
all docs

42
docs citations

42
times ranked

200
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Investigation of the Hydraulic Erosion of Noncohesive Compacted Soils. Journal of Hydraulic Engineering, 2010, 136, 901-913.	0.7	28
2	Experimental investigation into rockfill dam failure initiation by overtopping. Natural Hazards, 2014, 74, 623-637.	1.6	19
3	Experimental investigation into embankment external suffusion. Natural Hazards, 2010, 54, 749-763.	1.6	17
4	Comparison of two-dimensional flood propagation models: SRH-2D and Hydro_AS-2D. Natural Hazards, 2017, 86, 1207-1222.	1.6	17
5	PrÃ©vision par modÃ©lisation numÃ©rique de la zone de risque bordant un tronÃ§on de riviÃ©re subissant une crue exceptionnelle. Canadian Journal of Civil Engineering, 2003, 30, 568-579.	0.7	14
6	Flooding of the Saguenay region in 1996: Part 1â€”modeling River Ha! Ha! flooding. Natural Hazards, 2019, 96, 1-15.	1.6	11
7	Semi-two-dimensional numerical model for river morphological change prediction: theory and concepts. Natural Hazards, 2009, 49, 565-603.	1.6	10
8	The inclusive and simplified forms of Bayesian interpolation for general and monotonic models using Gaussian and Generalized Beta distributions with application to Monte Carlo simulations. Natural Hazards, 2010, 55, 29-49.	1.6	10
9	Simulation of shallow water waves using VOF method. Journal of Hydro-Environment Research, 2010, 3, 208-214.	1.0	10
10	Determination of failure probabilities of flood defence systems with improved dynamic bounds method. Natural Hazards, 2010, 55, 95-109.	1.6	8
11	Evaluation of the overflow failure scenario and hydrograph of an embankment dam with a concrete upstream slope protection. Natural Hazards, 2014, 71, 21-39.	1.6	8
12	Flood modelling improvement using automatic calibration of two dimensional river software SRH-2D. Natural Hazards, 2018, 91, 697-715.	1.6	8
13	Automatic calibration tool for river models based on the MHYSER software. Natural Hazards, 2010, 54, 879-899.	1.6	7
14	Stochastic methods for safety assessment of the flood defense system in the Scheldt Estuary of the Netherlands. Natural Hazards, 2010, 55, 123-144.	1.6	7
15	Automated numerical analysis tool for assessing potential bank failures during flooding. Natural Hazards, 2010, 55, 3-14.	1.6	7
16	Impacts of boreal hydroelectric reservoirs on seasonal climate and precipitation recycling as simulated by the CRCM5: a case study of the La Grande River watershed, Canada. Theoretical and Applied Climatology, 2018, 131, 1529-1544.	1.3	7
17	Pairing geotechnics and fluvial hydraulics for the prediction of the hazard zones of an exceptional flooding. Natural Hazards, 2007, 42, 225-236.	1.6	6
18	Application of the dynamic bounds method in the safety assessment of flood defences, a case study: 17th Street flood wall, New Orleans. Georisk, 2010, 4, 157-173.	2.6	6

#	ARTICLE	IF	CITATIONS
19	Treatment of Checkerboard Pressure in the Collocated Unstructured Finite-Volume Scheme. Numerical Heat Transfer, Part B: Fundamentals, 2010, 58, 121-144.	0.6	6
20	Presenting a novel higher-order bounded convection scheme for simulation of multiphase flows and convection heat transfer. International Journal of Heat and Mass Transfer, 2021, 172, 121163.	2.5	6
21	Flooding of the Saguenay region in 1996. Part 2: Aux Sables River flood mitigation and environmental impact assessment. Natural Hazards, 2019, 96, 17-32.	1.6	5
22	A new one-dimensional numerical model for unsteady hydraulics of sediments in rivers. SN Applied Sciences, 2020, 2, 1.	1.5	5
23	Depth-averaged turbulent heat and fluid flow in a vegetated porous medium. International Journal of Heat and Mass Transfer, 2012, 55, 848-863.	2.5	4
24	Aspects aléatoires de l'érosion d'une digue : simulations de la brèche par des algorithmes génétiques. Canadian Journal of Civil Engineering, 2004, 31, 927-942.	0.7	3
25	A new method for the treatment of wetting-drying fronts. Applied Mathematical Modelling, 2012, 36, 2286-2302.	2.2	3
26	Grid-independent depth-averaged simulations with a collocated unstructured finite volume scheme. International Journal for Numerical Methods in Fluids, 2012, 69, 88-109.	0.9	2
27	Manning's roughness coefficient determination in laboratory experiments using 2D modeling and automatic calibration. Houille Blanche, 2020, 106, 22-33.	0.3	2
28	Recent Hydropower Solutions in Canada. , 2012, , 153-178.		1
29	Détermination de l'hydrogramme de rupture par déversement en crête pour barrages en terre et en enrochement disposant d'un rideau en béton. Canadian Journal of Civil Engineering, 2013, 40, 537-546.	0.7	1
30	A review of cyclone track shifts over the Great Lakes of North America: implications for storm surges. Natural Hazards, 2019, 98, 119-135.	1.6	1
31	Discussion of "Consequences of dike breaches and dike overflow in a bifurcating river system" by Anouk Bomers, Ralph M. J. Schielen and Suzanne J. M. H. Hulscher. Natural Hazards, 2020, 103, 1629-1632.	1.6	1
32	Rivers' Confluence Morphological Modeling Using SRH-2D. Advances in Science, Technology and Innovation, 2020, , 171-176.	0.2	1
33	Guest editorial to the special issue modelling of river hazards. Natural Hazards, 2010, 55, 1-1.	1.6	0
34	Modélisation probabiliste du débit de rupture par submersion d'un barrage en remblai. Canadian Journal of Civil Engineering, 2014, 41, 677-685.	0.7	0
35	Semi-2D modeling of river morphological changes caused by exceptional flooding. MATEC Web of Conferences, 2017, 120, 05008.	0.1	0
36	Discussion of "Finite-Volume Solutions to the Water-Hammer Equations in Conservation Form Incorporating Dynamic Friction Using the Godunov Scheme" by Aboudou Seck, Musandji Fuamba, and René Kahawita. Journal of Hydraulic Engineering, 2019, 145, 07018022.	0.7	0

#	ARTICLE	IF	CITATIONS
37	Automatic incorporation of riverbank failures in two-dimensional flood modeling. Canadian Journal of Civil Engineering, 2021, 48, 1004-1019.	0.7	0
38	Discussion of "New Empirical Model for Breaching of Earth-Rock Dams" by Qiming Zhong, Shengshui Chen, Zhongzhi Fu, and Yibo Shan. Natural Hazards Review, 2021, 22, .	0.8	0
39	Manhole Storage Capacity Influence on Transient Flow Modeling during Storm Sewer Flooding Event. Journal of Water Management Modeling, 2009, , .	0.0	0
40	Comment on Aureli et al. Review of Historical Dam-Break Events and Laboratory Tests on Real Topography for the Validation of Numerical Models. Water 2021, 13, 1968. Water (Switzerland), 2022, 14, 264.	1.2	0