

Francesco Macchione

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

854
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471061

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22
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Terrestrial and airborne laser scanning and 2-D modelling for 3-D flood hazard maps in urban areas: new opportunities and perspectives. <i>Environmental Modelling and Software</i> , 2021, 135, 104889.	1.9	35
2	Roughnessâ€Based Method for Simulating Hydraulic Consequences of Both Woody Debris Clogging and Breakage at Bridges in Basinâ€Scale Flood Modeling. <i>Water Resources Research</i> , 2021, 57, e2021WR030485.	1.7	7
3	Is local flood hazard assessment in urban areas significantly influenced by the physical complexity of the hydrodynamic inundation model?. <i>Journal of Hydrology</i> , 2020, 580, 124231.	2.3	73
4	A spectral analysis approach for the a priori generation of computational grids in the 2-D hydrodynamic-based runoff simulations at a basin scale. <i>Journal of Hydrology</i> , 2020, 582, 124508.	2.3	32
5	Discharge coefficients for specific grated inlets. Influence of the Froude number. <i>Urban Water Journal</i> , 2020, 17, 656-668.	1.0	16
6	Performances of the New HEC-RAS Version 5 for 2-D Hydrodynamic-Based Rainfall-Runoff Simulations at Basin Scale: Comparison with a State-of-the Art Model. <i>Water (Switzerland)</i> , 2020, 12, 2326.	1.2	54
7	Hydraulic Characterization of River Networks Based on Flow Patterns Simulated by 2â€D Shallow Water Modeling: Scaling Properties, Multifractal Interpretation, and Perspectives for Channel Heads Detection. <i>Water Resources Research</i> , 2019, 55, 7717-7752.	1.7	25
8	Extracting quantitative data from non-conventional information for the hydraulic reconstruction of past urban flood events. A case study. <i>Journal of Hydrology</i> , 2019, 576, 443-465.	2.3	38
9	Moving to 3-D flood hazard maps for enhancing risk communication. <i>Environmental Modelling and Software</i> , 2019, 111, 510-522.	1.9	63
10	Visual Risk Communication of Urban Flooding in 3D Environments Based on Terrestrial Laser Scanning. <i>Green Energy and Technology</i> , 2019, , 783-787.	0.4	2
11	A comparative analysis of 3-D representations of urban flood map in virtual environments for hazard communication purposes. <i>E3S Web of Conferences</i> , 2018, 40, 06037.	0.2	5
12	Performances and limitations of the diffusive approximation of the 2-d shallow water equations for flood simulation in urban and rural areas. <i>Applied Numerical Mathematics</i> , 2017, 116, 141-156.	1.2	54
13	Dam breach modelling: influence on downstream water levels and a proposal of a physically based module for flood propagation software. <i>Journal of Hydroinformatics</i> , 2016, 18, 615-633.	1.1	19
14	The Power Function for Representing the Reservoir Rating Curve: Morphological Meaning and Suitability for Dam Breach Modelling. <i>Water Resources Management</i> , 2016, 30, 4861-4881.	1.9	3
15	Enhancing river model set-up for 2-D dynamic flood modelling. <i>Environmental Modelling and Software</i> , 2015, 67, 89-107.	1.9	118
16	Flood mapping using LIDAR DEM. Limitations of the 1-D modeling highlighted by the 2-D approach. <i>Natural Hazards</i> , 2015, 77, 181-204.	1.6	72
17	Formulas for the Peak Discharge from Breached Earthfill Dams. <i>Journal of Hydraulic Engineering</i> , 2014, 140, 56-67.	0.7	21
18	A storm event watershed model for surface runoff based on 2D fully dynamic wave equations. <i>Hydrological Processes</i> , 2013, 27, 554-569.	1.1	68

#	ARTICLE	IF	CITATIONS
19	Analysis of One-Dimensional Modelling for Flood Routing in Compound Channels. Water Resources Management, 2012, 26, 1065-1087.	1.9	27
20	Model for Predicting Floods due to Earthen Dam Breaching. II: Comparison with Other Methods and Predictive Use. Journal of Hydraulic Engineering, 2008, 134, 1697-1707.	0.7	24
21	Model for Predicting Floods due to Earthen Dam Breaching. I: Formulation and Evaluation. Journal of Hydraulic Engineering, 2008, 134, 1688-1696.	0.7	59
22	Practical Aspects in Comparing Shock-Capturing Schemes for Dam Break Problems. Journal of Hydraulic Engineering, 2003, 129, 187-195.	0.7	39