

Roland LÃ¶we

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

806
citations

566801

15
h-index

552369

26
g-index

35
all docs

35
docs citations

35
times ranked

783
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning for accelerating 2D flood models: Potential and challenges. <i>Hydrological Processes</i> , 2021, 35, e14064.	1.1	12
2	FloodStroem: A fast dynamic GIS-based urban flood and damage model. <i>Journal of Hydrology</i> , 2021, 600, 126521.	2.3	21
3	U-FLOOD – Topographic deep learning for predicting urban pluvial flood water depth. <i>Journal of Hydrology</i> , 2021, 603, 126898.	2.3	51
4	Approaches for unsupervised identification of data-driven models for flow forecasting in urban drainage systems. <i>Journal of Hydroinformatics</i> , 2021, 23, 1368-1381.	1.1	0
5	Rainwater harvesting for urban flood management – An integrated modelling framework. <i>Water Research</i> , 2020, 171, 115372.	5.3	108
6	Impacts of urban development on urban water management – Limits of predictability. <i>Computers, Environment and Urban Systems</i> , 2020, 84, 101546.	3.3	10
7	Urban pluvial flood risk assessment – data resolution and spatial scale when developing screening approaches on the microscale. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 981-997.	1.5	8
8	An interdisciplinary and catchment approach to enhancing urban flood resilience: a Melbourne case. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190201.	1.6	19
9	Incorporating objectives of stakeholders in strategic planning of urban water management. <i>Urban Water Journal</i> , 2020, 17, 87-99.	1.0	14
10	Data-driven approaches to derive parameters for lot-scale urban development models. <i>Cities</i> , 2019, 95, 102374.	2.7	6
11	A Cellular Automata Fast Flood Evaluation (CA ² FF ²) Model. <i>Water Resources Research</i> , 2019, 55, 4936-4953.	1.7	62
12	Flexible adaptation planning process for urban adaptation in Melbourne, Australia. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2019, 172, 393-403.	0.4	5
13	Modelling to Support the Planning of Sustainable Urban Water Systems. <i>Green Energy and Technology</i> , 2019, , 10-19.	0.4	1
14	Initial conditions of urban permeable surfaces in rainfall-runoff models using Horton's infiltration. <i>Water Science and Technology</i> , 2018, 77, 662-669.	1.2	18
15	Simulating flood risk under non-stationary climate and urban development conditions – Experimental setup for multiple hazards and a variety of scenarios. <i>Environmental Modelling and Software</i> , 2018, 102, 155-171.	1.9	18
16	Evaluating catchment response to artificial rainfall from four weather generators for present and future climate. <i>Water Science and Technology</i> , 2018, 77, 2578-2588.	1.2	7
17	A rapid urban flood inundation and damage assessment model. <i>Journal of Hydrology</i> , 2018, 564, 1085-1098.	2.3	124
18	Assessment of urban pluvial flood risk and efficiency of adaptation options through simulations – A new generation of urban planning tools. <i>Journal of Hydrology</i> , 2017, 550, 355-367.	2.3	138

#	ARTICLE	IF	CITATIONS
19	Simplification of one-dimensional hydraulic networks by automated processes evaluated on 1D/2D deterministic flood models. <i>Journal of Hydroinformatics</i> , 2017, 19, 686-700.	1.1	20
20	Objective Classification of Rainfall in Northern Europe for Online Operation of Urban Water Systems Based on Clustering Techniques. <i>Water (Switzerland)</i> , 2016, 8, 87.	1.2	9
21	Evaluation of Maximum a Posteriori Estimation as Data Assimilation Method for Forecasting Infiltration-Inflow Affected Urban Runoff with Radar Rainfall Input. <i>Water (Switzerland)</i> , 2016, 8, 381.	1.2	7
22	Probabilistic runoff volume forecasting in risk-based optimization for RTC of urban drainage systems. <i>Environmental Modelling and Software</i> , 2016, 80, 143-158.	1.9	35
23	Comparison of two stochastic techniques for reliable urban runoff prediction by modeling systematic errors. <i>Water Resources Research</i> , 2015, 51, 5004-5022.	1.7	21
24	Stochastic rainfall-runoff forecasting: parameter estimation, multi-step prediction, and evaluation of overflow risk. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 505-516.	1.9	19
25	Probabilistic online runoff forecasting for urban catchments using inputs from rain gauges as well as statically and dynamically adjusted weather radar. <i>Journal of Hydrology</i> , 2014, 512, 397-407.	2.3	22
26	State-space adjustment of radar rainfall and skill score evaluation of stochastic volume forecasts in urban drainage systems. <i>Water Science and Technology</i> , 2013, 68, 584-590.	1.2	3
27	Implementation of an integrated real-time control system of sewer system and waste water treatment plant in the city of Wilhelmshaven. <i>Urban Water Journal</i> , 2013, 10, 330-341.	1.0	48