Stefan Achleitner

List of Publications by Year
in descending order

39	643	623734	610901
papers	citations	14 h-index	24 g-index

57	57	57	905
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Model based hydropower gate operation for mitigation of CSO impacts by means of river base flow increase. Water Science and Technology, 2005, 52, 87-94.	2.5	74
2	CITY DRAIN Â© â€“ An open source approach for simulation of integrated urban drainage systems. Environmental Modelling and Software, 2007, 22, 1184-1195.	4.5	73
3	Continuous monitoring of snowpack dynamics in alpine terrain by aboveground neutron sensing. Water Resources Research, 2017, 53, 3615-3634.	4.2	72
4	A continuous modelling approach for design flood estimation on sub-daily time scale. Hydrological Sciences Journal, 2019, 64, 539-554.	2.6	38
5	Snow cover characteristics in a glacierized catchment in the Tyrolean Alps - Improved spatially distributed modelling by usage of Lidar data. Journal of Hydrology, 2014, 519, 3492-3510.	5.4	34
6	COSMOS-Europe: a European network of cosmic-ray neutron soil moisture sensors. Earth System Science Data, 2022, 14, 1125-1151.	9.9	33
7	Analyzing the operational performance of the hydrological models in an alpine flood forecasting system. Journal of Hydrology, 2012, 412-413, 90-100.	5.4	29
8	The European Water Framework Directive: Water Quality Classification and Implications to Engineering Planning. Environmental Management, 2005, 35, 517-525.	2.7	27
9	Nowcasting of rainfall and of combined sewage flow in urban drainage systems. Water Science and Technology, 2009, 59, 1145-1151.	2.5	24
10	How can we model subsurface stormflow at the catchment scale if we cannot measure it?. Hydrological Processes, 2019, 33, 1378-1385.	2.6	19
11	The complementary value of cosmic-ray neutron sensing and snow covered area products for snow hydrological modelling. Remote Sensing of Environment, 2020, 239, 111603.	11.0	19
12	Generating time-series of dry weather loads to sewers. Environmental Modelling and Software, 2013, 43, 133-143.	4.5	18
13	Hydrological modelling of glacierized catchments focussing on the validation of simulated snow patterns â€“ applications within the flood forecasting system of the Tyrolean river Inn. Advances in Geosciences, 0, 27, 99-109.	12.0	18
14	Local infiltration devices at parking sites â€“ Experimental assessment of temporal changes in hydraulic and contaminant removal capacity. Water Science and Technology, 2007, 55, 193-200.	2.5	15
15	Accuracy analysis of a physical scale model using the example of an asymmetric orifice. Flow Measurement and Instrumentation, 2014, 36, 36-46.	2.0	15
16	Hydrological modeling in alpine catchments: sensing the critical parameters towards an efficient model calibration. Water Science and Technology, 2009, 60, 1507-1514.	2.5	13
17	Sediment and pollutant load modelling using an integrated urban drainage modelling toolbox: an application of City Drain. Water Science and Technology, 2010, 61, 2273-2282.	2.5	13
18	Analysis and modelling of snow bulk density in the Tyrolean Alps. Hydrology Research, 2016, 47, 419-441.	2.7	11

#	Article	IF	Citations
19	Temporal development of flood risk considering settlement dynamics and local flood protection measures on catchment scale: an Austrian case study. International Journal of River Basin Management, 2016, 14, 273-285.	2.7	9
20	A Probabilistic Framework for Risk Analysis of Widespread Flood Events: A Proofâ€ofâ€Concept Study. Risk Analysis, 2019, 39, 125-139.	2.7	9
21	Annually Resolved Monsoon Onset and Withdrawal Dates Across the Himalayas Derived From Local Precipitation Statistics. Geophysical Research Letters, 2020, 47, e2020GL088420.	4.0	8
22	Numerical Simulations in Hydraulic Engineering. , 2014, , 195-224.		8
23	Evaluation criteria for velocity distributions in front of bulb hydro turbines. Renewable Energy, 2018, 121, 745-756.	8.9	7
24	Challenges in the implementation of the Water Framework Directive: case study of the alpine River Drau, Austria. Water Science and Technology, 2005, 52, 243-250.	2.5	6
25	Urine separation as part of a real-time control strategy. Urban Water Journal, 2007, 4, 233-240.	2.1	6
26	Increase of River Base Flow by Hydropower Gate Operation for Mitigation of CSO Impacts â€“ Potential and Limitations. Water Resources Management, 2007, 21, 1487-1503.	3.9	6
27	Impact of snow state variation for design flood simulations in glacierized catchments. Advances in Geosciences, 0, 31, 39-48.	12.0	6
28	Retrospective forecasts of the upcoming winter season snow accumulation in the Inn headwaters (European Alps). Hydrology and Earth System Sciences, 2018, 22, 1157-1173.	4.9	5
29	The impact of different elevation steps on simulation of snow covered area and the resulting runoff variance. Advances in Geosciences, 0, 32, 69-76.	12.0	4
30	Deep Foundations Penetrating Mineral Sealing Barriers: Impacts on Hydraulic Flow and Contaminant Transport. Environmental Engineering Science, 2004, 21, 231-240.	1.6	2
31	Investigation of a mmWave-Radar-Based Sensor for Snow-Suspension Density Measurements. IEEE Sensors Journal, 2016, 16, 8861-8862.	4.7	2
32	Flood Flow in a Proglacial Outwash Plain: Quantifying Spatial Extent and Frequency of Inundation from Time-Lapse Imagery. Water (Switzerland), 2022, 14, 590.	2.7	2
33	Discharge Calculation of Side Weirs with Several Weir Fields Considering the Undisturbed Normal Flow Depth in the Channel. Water (Switzerland), 2021, 13, 1717.	2.7	1
34	Bed-load transport modelling by coupling an empirical routing scheme and a hydrological-1-D-hydrodynamic model â€“ case study application for a large alpine valley. Advances in Geosciences, 0, 32, 23-30.	12.0	1
35	Austrian Activities in Protecting Critical Water Infrastructure. , 2014, , 343-373.		1
36	Sensitivity Study for a Bed-Load Transport Routing Scheme applied to a large Alpine Catchment. Procedia, Social and Behavioral Sciences, 2010, 2, 7662-7663.	0.5	0

#	Article	IF	Citations
37	Pluviale Ãœberflutung und Hangwasser. Osterreichische Wasser- Und Abfallwirtschaft, 2021, 73, 74-75.	0.3	0
38	Mitigation measures towards morphological alterations of rivers: The receiving water as part of the integrated wastewater system. Water Practice and Technology, 2006, 1, .	2.0	0
39	Model based hydropower gate operation for mitigation of CSO impacts by means of river base flow increase. Water Science and Technology, 2005, 52, 87-94.	2.5	0