Diego Avesani

List of Publications by Year in descending order

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15 papers	342 citations	687220 13 h-index	996849 15 g-index
18 all docs	18 docs citations	18 times ranked	252 citing authors

#	Article	IF	Citations
1	A new class of Moving-Least-Squares WENOâ€“SPH schemes. Journal of Computational Physics, 2014, 270, 278-299.	1.9	63
2	Reducing hydrological modelling uncertainty by using MODIS snow cover data and a topography-based distribution function snowmelt model. Journal of Hydrology, 2021, 599, 126020.	2.3	33
3	Uniformly Distributed Demand EPANET Extension. Water Resources Management, 2018, 32, 2165-2180.	1.9	30
4	Short-term hydropower optimization driven by innovative time-adapting econometric model. Applied Energy, 2022, 310, 118510.	5.1	25
5	A dual-layer MPI continuous large-scale hydrological model including Human Systems. Environmental Modelling and Software, 2021, 139, 105003.	1.9	24
6	Detailed simulation of storage hydropower systems in large Alpine watersheds. Journal of Hydrology, 2021, 603, 127125.	2.3	24
7	An alternative SPH formulation: ADER-WENO-SPH. Computer Methods in Applied Mechanics and Engineering, 2021, 382, 113871.	3.4	20
8	Smooth Particle Hydrodynamics with nonlinear Moving-Least-Squares WENO reconstruction to model anisotropic dispersion in porous media. Advances in Water Resources, 2015, 80, 43-59.	1.7	19
9	Comparison of MODIS and Model-Derived Snow-Covered Areas: Impact of Land Use and Solar Illumination Conditions. Geosciences (Switzerland), 2020, 10, 134.	1.0	18
10	The extension of EPANET source code to simulate unsteady flow in water distribution networks with variable head tanks. Journal of Hydroinformatics, 2012, 14, 960-973.	1.1	17
11	Burst Detection in Water Distribution Systems: The Issue of Dataset Collection. Applied Sciences (Switzerland), 2020, 10, 8219.	1.3	16
12	An alternative smooth particle hydrodynamics formulation to simulate chemotaxis in porous media. Journal of Mathematical Biology, 2017, 74, 1037-1058.	0.8	15
13	Global Gradient Algorithm Extension to Distributed Pressure Driven Pipe Demand Model. Water Resources Management, 2019, 33, 1717-1736.	1.9	15
14	Impact of Geology on Seasonal Hydrological Predictability in Alpine Regions by a Sensitivity Analysis Framework. Water (Switzerland), 2020, 12, 2255.	1.2	13
15	Towards a High Order Convergent ALE-SPH Scheme with Efficient WENO Spatial Reconstruction. Water (Switzerland), 2021, 13, 2432.	1.2	10