

Chiara Biscarini

List of Publications by Year in descending order

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papers

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citations

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all docs

27
docs citations

27
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice Boltzmann Methods for Multiphase Flow Simulations across Scales. Communications in Computational Physics, 2011, 9, 269-296.	0.7	68
2	Computational fluid dynamics modelling of landslide generated water waves. Landslides, 2010, 7, 117-124.	2.7	64
3	Experimental and numerical analysis of energy dissipation in a sloshing absorber. Journal of Fluids and Structures, 2017, 68, 466-481.	1.5	40
4	COMPARING A LARGE-SCALE DEM-BASED FLOODPLAIN DELINEATION ALGORITHM WITH STANDARD FLOOD MAPS: THE TIBER RIVER BASIN CASE STUDY. Irrigation and Drainage, 2013, 62, 11-19.	0.8	37
5	On the Simulation of Floods in a Narrow Bending Valley: The Malpasset Dam Break Case Study. Water (Switzerland), 2016, 8, 545.	1.2	30
6	Hydrodynamics in Porous Media: A Finite Volume Lattice Boltzmann Study. Journal of Scientific Computing, 2014, 59, 80-103.	1.1	29
7	POROUS SUBSTRATE EFFECTS ON THERMAL FLOWS THROUGH A REV-SCALE FINITE VOLUME LATTICE BOLTZMANN MODEL. International Journal of Modern Physics C, 2014, 25, 1350086.	0.8	26
8	Detailed Simulation of Complex Hydraulic Problems with Macroscopic and Mesoscopic Mathematical Methods. Mathematical Problems in Engineering, 2013, 2013, 1-14.	0.6	23
9	Numerical simulation of water free-surface flows through a front-tracking lattice Boltzmann approach. Journal of Hydroinformatics, 2015, 17, 1-6.	1.1	23
10	Hillslope Erosion Mitigation: An Experimental Proof of a Nature-Based Solution. Sustainability, 2021, 13, 6058.	1.6	23
11	Structural health monitoring of cylindrical bodies under impulsive hydrodynamic loading by distributed FBG strain measurements. Measurement Science and Technology, 2017, 28, 024006.	1.4	22
12	Application of the lattice Boltzmann method for large-scale hydraulic problems. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 584-601.	1.6	20
13	Characterization of a Flood Event through a Sediment Analysis: The Tescio River Case Study. Water (Switzerland), 2016, 8, 308.	1.2	19
14	Experimental assessment of buoyant cylinder impacts through high-speed image acquisition. Journal of Marine Science and Technology, 2018, 23, 67-80.	1.3	15
15	Enhanced energy dissipation through 3D printed bottom geometry in Tuned Sloshing Dampers. Journal of Fluids and Structures, 2021, 106, 103377.	1.5	14
16	Fluid Structure Interaction of Buoyant Bodies with Free Surface Flows: Computational Modelling and Experimental Validation. Water (Switzerland), 2019, 11, 1048.	1.2	13
17	Coping with Extreme Events: Effect of Different Reservoir Operation Strategies on Flood Inundation Maps. Water (Switzerland), 2019, 11, 982.	1.2	13
18	On the role of hydrological processes on the water balance of Lake Bolsena, Italy. Lakes and Reservoirs: Research and Management, 2016, 21, 45-55.	0.6	8

#	ARTICLE	IF	CITATIONS
19	Effect of Bottom Geometry on the Natural Sloshing Motion of Water inside Tanks: An Experimental Analysis. Applied Sciences (Switzerland), 2021, 11, 605.	1.3	8
20	Using Optimisation Meta-Heuristics for the Roughness Estimation Problem in River Flow Analysis. Applied Sciences (Switzerland), 2021, 11, 10575.	1.3	7
21	Three-Dimensional numerical modelling of the Marmore waterfalls. Progress in Computational Fluid Dynamics, 2011, 11, 105.	0.1	4
22	Multi-component Lattice Boltzmann simulation of the hydrodynamics in drip emitters. Journal of Agricultural Engineering, 2017, 48, 175.	0.7	4
23	Effect of Strain Measurement Layout on Damage Detection and Localization in a Free Falling Compliant Cylinder Impacting a Water Surface. Fluids, 2021, 6, 58.	0.8	4
24	Evolutionary Algorithms for Roughness Coefficient Estimation in River Flow Analyses. Lecture Notes in Computer Science, 2021, , 795-811.	1.0	3
25	Analysis of Deformation in an Aluminium Hull Impacting Water Free Surface. Fluids, 2022, 7, 49.	0.8	2
26	Experimental analysis on slamming reduction in rectangular liquid tanks subjected to harmonic motion. AIP Conference Proceedings, 2018, , .	0.3	0
27	Vulnerability of Hydraulic Constructions in Flood-Prone Agricultural Areas. Water (Switzerland), 2021, 13, 1549.	1.2	0