Chiara Biscarini

List of Publications by Year
in descending order

27 papers	519 citations	623188 14 h-index	642321 23 g-index
27 all docs	27 docs citations	27 times ranked	476 citing authors

#	Article	IF	Citations
1	Analysis of Deformation in an Aluminium Hull Impacting Water Free Surface. Fluids, 2022, 7, 49.	0.8	2
2	Evolutionary Algorithms for Roughness Coefficient Estimation in River Flow Analyses. Lecture Notes in Computer Science, 2021, , 795-811.	1.0	3
3	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
4	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
5	Hillslope Erosion Mitigation: An Experimental Proof of a Nature-Based Solution. Sustainability, 2021, 13, 6058.	1.6	23
6	Vulnerability of Hydraulic Constructions in Flood-Prone Agricultural Areas. Water (Switzerland), 2021, 13, 1549.	1.2	0
7	Enhanced energy dissipation through 3D printed bottom geometry in Tuned Sloshing Dampers. Journal of Fluids and Structures, 2021, 106, 103377.	1.5	14
8	Using Optimisation Meta-Heuristics for the Roughness Estimation Problem in River Flow Analysis. Applied Sciences (Switzerland), 2021, 11, 10575.	1.3	7
9	Fluid Structure Interaction of Buoyant Bodies with Free Surface Flows: Computational Modelling and Experimental Validation. Water (Switzerland), 2019, 11, 1048.	1.2	13
10	Coping with Extreme Events: Effect of Different Reservoir Operation Strategies on Flood Inundation Maps. Water (Switzerland), 2019, 11, 982.	1.2	13
11	Experimental assessment of buoyant cylinder impacts through high-speed image acquisition. Journal of Marine Science and Technology, 2018, 23, 67-80.	1.3	15
12	Experimental analysis on slamming reduction in rectangular liquid tanks subjected to harmonic motion. AIP Conference Proceedings, 2018, , .	0.3	0
13	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
14	Experimental and numerical analysis of energy dissipation in a sloshing absorber. Journal of Fluids and Structures, 2017, 68, 466-481.	1.5	40
15	Multi-component Lattice Boltzmann simulation of the hydrodynamics in drip emitters. Journal of Agricultural Engineering, 2017, 48, 175.	0.7	4
16	Characterization of a Flood Event through a Sediment Analysis: The Tescio River Case Study. Water (Switzerland), 2016, 8, 308.	1.2	19
17	On the Simulation of Floods in a Narrow Bending Valley: The Malpasset Dam Break Case Study. Water (Switzerland), 2016, 8, 545.	1.2	30
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	Numerical simulation of water free-surface flows through a front-tracking lattice Boltzmann approach. Journal of Hydroinformatics, 2015, 17, 1-6.	1.1	23
20	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
21	Hydrodynamics in Porous Media: A Finite Volume Lattice Boltzmann Study. Journal of Scientific Computing, 2014, 59, 80-103.	1.1	29
22	Detailed Simulation of Complex Hydraulic Problems with Macroscopic and Mesoscopic Mathematical Methods. Mathematical Problems in Engineering, 2013, 2013, 1-14.	0.6	23
23	COMPARING A LARGEâ€SCALE DEMâ€BASED FLOODPLAIN DELINEATION ALGORITHM WITH STANDARD FLOOD MAPS: THE TIBER RIVER BASIN CASE STUDY. Irrigation and Drainage, 2013, 62, 11-19.	0.8	37
24	Application of the lattice Boltzmann method for largeâ€scale hydraulic problems. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 584-601.	1.6	20
25	Lattice Boltzmann Methods for Multiphase Flow Simulations across Scales. Communications in Computational Physics, 2011, 9, 269-296.	0.7	68
26	Three-Dimensional numerical modelling of the Marmore waterfalls. Progress in Computational Fluid Dynamics, 2011, 11, 105.	0.1	4
27	Computational fluid dynamics modelling of landslide generated water waves. Landslides, 2010, 7, 117-124.	2.7	64