

Stefano Sibilla

List of Publications by Citations

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43
papers

1,054
citations

16
h-index

32
g-index

45
ext. papers

1,270
ext. citations

2.8
avg, IF

4.72
L-index

#	Paper	IF	Citations
43	Numerical simulation of fluid-structure interaction by SPH. <i>Computers and Structures</i> , 2007 , 85, 879-890	4.5	282
42	The alleviation of the aerodynamic drag and wave effects of high-speed trains in very long tunnels. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2001 , 89, 365-401	3.7	85
41	Numerical simulation of turbulent flow in a pipe oscillating around its axis. <i>Journal of Fluid Mechanics</i> , 2000 , 424, 217-241	3.7	79
40	SPH Simulation of Sediment Flushing Induced by a Rapid Water Flow. <i>Journal of Hydraulic Engineering</i> , 2012 , 138, 272-284	1.8	76
39	3D SPH modelling of hydraulic jump in a very large channel. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013 , 51, 158-173	1.9	48
38	SPH Modeling of Solid Boundaries Through a Semi-Analytic Approach. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2011 , 5, 1-15	4.5	43
37	Polymer stress statistics in the near-wall turbulent flow of a drag-reducing solution. <i>Physics of Fluids</i> , 2002 , 14, 1123-1136	4.4	41
36	An algorithm to improve consistency in Smoothed Particle Hydrodynamics. <i>Computers and Fluids</i> , 2015 , 118, 148-158	2.8	30
35	Relevance of inflows on the thermodynamic structure and on the modeling of a deep subalpine lake (Lake Maggiore, Northern Italy/Southern Switzerland). <i>Limnologica</i> , 2017 , 63, 42-56	2	29
34	A 3D smoothed particle hydrodynamics model for erosional dam-break floods. <i>International Journal of Computational Fluid Dynamics</i> , 2017 , 31, 413-434	1.2	28
33	Forecasting the evolution in the mixing regime of a deep subalpine lake under climate change scenarios through numerical modelling (Lake Maggiore, Northern Italy/Southern Switzerland). <i>Climate Dynamics</i> , 2018 , 51, 3521-3536	4.2	26
32	Assessing Potential Algal Blooms in a Shallow Fluvial Lake by Combining Hydrodynamic Modelling and Remote-Sensed Images. <i>Water (Switzerland)</i> , 2015 , 7, 1921-1942	3	24
31	Hydrodynamic Characterization of a Nozzle Check Valve by Numerical Simulation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2008 , 130,	2.1	23
30	SPH Modelling of Hydraulic Jump Oscillations at an Abrupt Drop. <i>Water (Switzerland)</i> , 2017 , 9, 790	3	22
29	SPH numerical investigation of characteristics of hydraulic jumps. <i>Environmental Fluid Mechanics</i> , 2018 , 18, 849-870	2.2	20
28	SPH numerical investigation of the characteristics of an oscillating hydraulic jump at an abrupt drop. <i>Journal of Hydrodynamics</i> , 2018 , 30, 106-113	3.3	17
27	Calibration of a dynamic Eulerian-lagrangian model for the computation of wood cylinders transport in shallow water flow. <i>Journal of Hydroinformatics</i> , 2019 , 21, 164-179	2.6	16

26	SPH numerical investigation of the velocity field and vorticity generation within a hydrofoil-induced spilling breaker. <i>Environmental Fluid Mechanics</i> , 2016 , 16, 267-287	2.2	15
25	Hydrodynamic coefficients of yawed cylinders in open-channel flow. <i>Flow Measurement and Instrumentation</i> , 2019 , 65, 288-296	2.2	15
24	Applicability of a one-dimensional coupled ecological-hydrodynamic numerical model to future projections in a very deep large lake (Lake Maggiore, Northern Italy/Southern Switzerland). <i>Ecological Modelling</i> , 2019 , 392, 38-51	3	15
23	Near-wall coherent structures in the turbulent channel flow of a dilute polymer solution. <i>Fluid Dynamics Research</i> , 2005 , 37, 183-202	1.2	14
22	Characteristics of breaking vorticity in spilling and plunging waves investigated numerically by SPH. <i>Environmental Fluid Mechanics</i> , 2020 , 20, 233-260	2.2	11
21	Experimental and Numerical Investigation of Pre-Breaking and Breaking Vorticity within a Plunging Breaker. <i>Water (Switzerland)</i> , 2018 , 10, 387	3	11
20	Theoretical analysis and numerical simulations of turbulent jets in a wave environment. <i>Physics of Fluids</i> , 2020 , 32, 035105	4.4	10
19	Characteristics of nonbuoyant jets in a wave environment investigated numerically by SPH. <i>Environmental Fluid Mechanics</i> , 2020 , 20, 189-202	2.2	9
18	Large wood transport modelling by a coupled Eulerian-Lagrangian approach. <i>Natural Hazards</i> , 2017 , 91, 59	3	8
17	Modelling flows in shallow (fluvial) lakes with prevailing circulations in the horizontal plane: limits of 2D compared to 3D models. <i>Journal of Hydroinformatics</i> , 2016 , 18, 928-945	2.6	8
16	Numerical modelling of uncongested wood transport in the Rienz river. <i>Environmental Fluid Mechanics</i> , 2020 , 20, 539-558	2.2	8
15	Numerical investigation of the behaviour of jets in a wave environment. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020 , 58, 618-627	1.9	7
14	Investigation over the capability of MIKE 3 flow model FM to simulate the hydrodynamics and salinity distribution of hypersaline lakes: Lake Urmia (Iran) as case study. <i>Coastal Engineering Journal</i> , 2019 , 61, 486-501	2.8	6
13	An Eulerian-Lagrangian method for the simulation of the oxygen concentration dissolved by a two-phase turbulent jet system. <i>Computers and Structures</i> , 2013 , 129, 207-217	4.5	5
12	Hydraulic approach to Navigli canal daylighting in Milan, Italy. <i>Sustainable Cities and Society</i> , 2017 , 32, 247-262	10.1	4
11	An experimental and theoretical analysis of floating wood diffusion coefficients. <i>Environmental Fluid Mechanics</i> , 2020 , 20, 593-617	2.2	4
10	A One-Way Coupled Hydrodynamic Advection-Diffusion Model to Simulate Congested Large Wood Transport. <i>Hydrology</i> , 2021 , 8, 21	2.8	4
9	Hypersonic rarefied flows DSMC analysis by a simplified chemical model. <i>Meccanica</i> , 1995 , 30, 93-104	2.1	3

8	Model simulations of the ecological dynamics induced by climate and nutrient load changes for deep subalpine Lake Maggiore (Italy/Switzerland). <i>Journal of Limnology</i> , 2020 , 79,	1.5	2
7	Smoothed Particle Hydrodynamics multiphase modelling of an experimental microfluidic device for conformal coating of pancreatic islets. <i>Medical Engineering and Physics</i> , 2020 , 77, 19-30	2.4	2
6	A multi-phase SPH simulation of hydraulic jump oscillations and local scouring processes downstream of bed sills. <i>Advances in Water Resources</i> , 2022 , 159, 104097	4.7	1
5	Experimental dataset and numerical simulation of floating bodies transport in open-channel flow. <i>Journal of Hydroinformatics</i> , 2020 , 22, 1161-1181	2.6	1
4	Hydrodynamic modelling and characterisation of a shallow fluvial lake: a study on the Superior Lake of Mantua. <i>Journal of Limnology</i> , 2016 ,	1.5	1
3	Modeling Large Wood Transport in Semi-Congested Regime with Multiple Entry Points. <i>Water (Switzerland)</i> , 2022 , 14, 421	3	0
2	Near-wall coherent structures in the turbulent channel flow of a dilute polymer solution 2003 , 1135-1139		
1	Calibration of a numerical model for the transport of floating wooden debris. <i>E3S Web of Conferences</i> , 2018 , 40, 02012	0.5	