Songdong Shao

List of Publications by Year
in descending order

49 papers	2,846 citations	185998 28 h-index	205818 48 g-index
49 all docs	49 docs citations	49 times ranked	1349 citing authors

#	Article	IF	Citations
1	DualSPHysics simulations of spillway hydraulics: a comparison between single- and two-phase modelling approaches. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 835-852.	0.7	14
2	MPM simulation of solitary wave run-up on permeable boundaries. Applied Ocean Research, 2021, 111, 102602.	1.8	18
3	SPHâ€based numerical treatment of the interfacial interaction of flow with porous media. International Journal for Numerical Methods in Fluids, 2020, 92, 219-245.	0.9	30
4	SPH modelling of turbulent open channel flow over and within natural gravel beds with rough interfacial boundaries. Advances in Water Resources, 2020, 140, 103557.	1.7	39
5	Advances in Modelling and Prediction on the Impact of Human Activities and Extreme Events on Environments. Water (Switzerland), 2020, 12, 1768.	1.2	14
6	An Improved 2D + t Incompressible Smoothed Particle Hydrodynamics Approach for High-Speed Vessel Waves. Journal of Coastal Research, 2019, 35, 1106.	0.1	5
7	Cylindrical Smoothed Particle Hydrodynamics Simulations of Water Entry. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	0.8	24
8	Consistent Particle Method simulation of solitary wave impinging on and overtopping a seawall. Engineering Analysis With Boundary Elements, 2019, 103, 160-171.	2.0	33
9	3D ISPH erosion model for flow passing a vertical cylinder. Journal of Fluids and Structures, 2018, 78, 374-399.	1.5	24
10	SPHysics simulation of laboratory shallow free surface turbulent flows over a rough bed. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 727-747.	0.7	14
11	Improved SPH simulation of spilled oil contained by flexible floating boom under waveâ€“current coupling condition. Journal of Fluids and Structures, 2018, 76, 272-300.	1.5	46
12	Study on two-phase dynamic behaviours within non-homogeneous debris flow. Water Management, 2018, 171, 283-298.	0.4	1
13	An improved solid boundary treatment for waveâ€“float interactions using ISPH method. International Journal of Naval Architecture and Ocean Engineering, 2018, 10, 329-347.	1.0	20
14	Development of a projection-based SPH method for numerical wave flume with porous media of variable porosity. Coastal Engineering, 2018, 140, 1-22.	1.7	92
15	Study on SPH Viscosity Term Formulations. Applied Sciences (Switzerland), 2018, 8, 249.	1.3	16
16	A Comparative Study on Violent Sloshing with Complex Baffles Using the ISPH Method. Applied Sciences (Switzerland), 2018, 8, 904.	1.3	31
17	SPH modelling of depthâ€limited turbulent open channel flows over rough boundaries. International Journal for Numerical Methods in Fluids, 2017, 83, 3-27.	0.9	43
18	Corrected First-Order Derivative ISPH in Water Wave Simulations. Coastal Engineering Journal, 2017, 59, 1750010-1-1750010-29.	0.7	71

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19	Incompressible SPH simulation of solitary wave interaction with movable seawalls. Journal of Fluids and Structures, 2017, 69, 72-88.	1.5	45
20	An Enhanced Particle Method for Simulation of Fluid Flow Interactions with Saturated Porous Media. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2017, 73, I_841-I_846.	0.0	2
21	Modelling of Violent Water Wave Propagation and Impact by Incompressible SPH with First-Order Consistent Kernel Interpolation Scheme. Water (Switzerland), 2017, 9, 400.	1.2	19
22	Applications of Coupled Explicitâ€“Implicit Solution of SWEs for Unsteady Flow in Yangtze River. Water (Switzerland), 2017, 9, 91.	1.2	3
23	SWE-SPHysics Simulation of Dam Break Flows at South-Gate Gorges Reservoir. Water (Switzerland), 2017, 9, 387.	1.2	27
24	Two-phase SPH simulation of fluidâ€“structure interactions. Journal of Fluids and Structures, 2016, 65, 155-179.	1.5	90
25	Waterâ€“sediment flow modeling for field case studies in Southwest China. Natural Hazards, 2015, 78, 1197-1224.	1.6	9
26	Incompressible SPH simulation of open channel flow over smooth bed. Journal of Hydro-Environment Research, 2015, 9, 340-353.	1.0	18
27	Numerical study of PPE source term errors in the incompressible SPH models. International Journal for Numerical Methods in Fluids, 2015, 77, 358-379.	0.9	49
28	Incompressible SPH scour model for movable bed dam break flows. Advances in Water Resources, 2015, 82, 39-50.	1.7	62
29	SPH study of the evolution of waterâ€“water interfaces in dam break flows. Natural Hazards, 2015, 78, 531-553.	1.6	15
30	Incompressible SPH simulation of wave interaction with porous structure. Ocean Engineering, 2015, 110, 126-139.	1.9	37
31	SPH modeling of tidal bore scenarios. Natural Hazards, 2015, 75, 1247-1270.	1.6	6
32	Wave Impact Simulations by an Improved ISPH Model. Journal of Waterway, Port, Coastal and Ocean Engineering, 2014, 140, .	0.5	24
33	An improved incompressible SPH model for simulation of waveâ€“structure interaction. Computers and Fluids, 2013, 71, 113-123.	1.3	85
34	Evaluations of SWEs and SPH Numerical Modelling Techniques for Dam Break Flows. Engineering Applications of Computational Fluid Mechanics, 2013, 7, 544-563.	1.5	37
35	Source term treatment of SWEs using surface gradient upwind method. Journal of Hydraulic Research/De Recherches Hydrauliques, 2012, 50, 145-153.	0.7	37
36	Scaling of Velocity Profiles for Depth-Limited Open Channel Flows over Simulated Rigid Vegetation. Journal of Hydraulic Engineering, 2012, 138, 673-683.	0.7	30

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37	Smoothed Particle Hydrodynamics Simulation of Wave Overtopping Characteristics for Different Coastal Structures. Scientific World Journal, The, 2012, 2012, 1-10.	0.8	14
38	Incompressible smoothed particle hydrodynamics simulation of multifluid flows. International Journal for Numerical Methods in Fluids, 2012, 69, 1715-1735.	0.9	54
39	SPH modeling of solitary wave fissions over uneven bottoms. Coastal Engineering, 2012, 60, 261-275.	1.7	34
40	Incompressible SPH flow model for wave interactions with porous media. Coastal Engineering, 2010, 57, 304-316.	1.7	136
41	Incompressible SPH simulation of water entry of a freeâ€falling object. International Journal for Numerical Methods in Fluids, 2009, 59, 91-115.	0.9	88
42	Enhanced predictions of wave impact pressure by improved incompressible SPH methods. Applied Ocean Research, 2009, 31, 111-131.	1.8	140
43	MODELING OF WAVE OVERTOPPING USING RANS-VOF AND INCOMPRESSIBLE SPH MODELS. , 2009, , .		0
44	Incompressible SPH simulation of wave breaking and overtopping with turbulence modelling. International Journal for Numerical Methods in Fluids, 2006, 50, 597-621.	0.9	76
45	Turbulence particle models for tracking free surfaces. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 276-289.	0.7	91
46	SPH simulation of solitary wave interaction with a curtain-type breakwater. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 366-375.	0.7	50
47	Simulating Coupled Motion of Progressive Wave and Floating Curtain Wall by SPH-LES Model. Coastal Engineering Journal, 2004, 46, 171-202.	0.7	68
48	SPH-LES Model for Numerical Investigation of Wave Interaction with Partially Immersed Breakwater. Coastal Engineering Journal, 2004, 46, 39-63.	0.7	130
49	Incompressible SPH method for simulating Newtonian and non-Newtonian flows with a free surface. Advances in Water Resources, 2003, 26, 787-800.	1.7	835