

Songdong Shao

List of Publications by Year in descending order

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49
papers

2,846
citations

185998

28
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205818

48
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all docs

49
docs citations

49
times ranked

1349
citing authors

#	ARTICLE	IF	CITATIONS
1	Incompressible SPH method for simulating Newtonian and non-Newtonian flows with a free surface. <i>Advances in Water Resources</i> , 2003, 26, 787-800.	1.7	835
2	Enhanced predictions of wave impact pressure by improved incompressible SPH methods. <i>Applied Ocean Research</i> , 2009, 31, 111-131.	1.8	140
3	Incompressible SPH flow model for wave interactions with porous media. <i>Coastal Engineering</i> , 2010, 57, 304-316.	1.7	136
4	SPH-LES Model for Numerical Investigation of Wave Interaction with Partially Immersed Breakwater. <i>Coastal Engineering Journal</i> , 2004, 46, 39-63.	0.7	130
5	Development of a projection-based SPH method for numerical wave flume with porous media of variable porosity. <i>Coastal Engineering</i> , 2018, 140, 1-22.	1.7	92
6	Turbulence particle models for tracking free surfaces. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2005, 43, 276-289.	0.7	91
7	Two-phase SPH simulation of fluid-structure interactions. <i>Journal of Fluids and Structures</i> , 2016, 65, 155-179.	1.5	90
8	Incompressible SPH simulation of water entry of a free-falling object. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 59, 91-115.	0.9	88
9	An improved incompressible SPH model for simulation of wave-structure interaction. <i>Computers and Fluids</i> , 2013, 71, 113-123.	1.3	85
10	Incompressible SPH simulation of wave breaking and overtopping with turbulence modelling. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 50, 597-621.	0.9	76
11	Corrected First-Order Derivative ISPH in Water Wave Simulations. <i>Coastal Engineering Journal</i> , 2017, 59, 1750010-1-1750010-29.	0.7	71
12	Simulating Coupled Motion of Progressive Wave and Floating Curtain Wall by SPH-LES Model. <i>Coastal Engineering Journal</i> , 2004, 46, 171-202.	0.7	68
13	Incompressible SPH scour model for movable bed dam break flows. <i>Advances in Water Resources</i> , 2015, 82, 39-50.	1.7	62
14	Incompressible smoothed particle hydrodynamics simulation of multifluid flows. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 69, 1715-1735.	0.9	54
15	SPH simulation of solitary wave interaction with a curtain-type breakwater. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2005, 43, 366-375.	0.7	50
16	Numerical study of PPE source term errors in the incompressible SPH models. <i>International Journal for Numerical Methods in Fluids</i> , 2015, 77, 358-379.	0.9	49
17	Improved SPH simulation of spilled oil contained by flexible floating boom under wave-current coupling condition. <i>Journal of Fluids and Structures</i> , 2018, 76, 272-300.	1.5	46
18	Incompressible SPH simulation of solitary wave interaction with movable seawalls. <i>Journal of Fluids and Structures</i> , 2017, 69, 72-88.	1.5	45

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19	SPH modelling of depth-limited turbulent open channel flows over rough boundaries. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 83, 3-27.	0.9	43
20	SPH modelling of turbulent open channel flow over and within natural gravel beds with rough interfacial boundaries. <i>Advances in Water Resources</i> , 2020, 140, 103557.	1.7	39
21	Source term treatment of SWEs using surface gradient upwind method. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012, 50, 145-153.	0.7	37
22	Evaluations of SWEs and SPH Numerical Modelling Techniques for Dam Break Flows. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2013, 7, 544-563.	1.5	37
23	Incompressible SPH simulation of wave interaction with porous structure. <i>Ocean Engineering</i> , 2015, 110, 126-139.	1.9	37
24	SPH modeling of solitary wave fissions over uneven bottoms. <i>Coastal Engineering</i> , 2012, 60, 261-275.	1.7	34
25	Consistent Particle Method simulation of solitary wave impinging on and overtopping a seawall. <i>Engineering Analysis With Boundary Elements</i> , 2019, 103, 160-171.	2.0	33
26	A Comparative Study on Violent Sloshing with Complex Baffles Using the ISPH Method. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 904.	1.3	31
27	Scaling of Velocity Profiles for Depth-Limited Open Channel Flows over Simulated Rigid Vegetation. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 673-683.	0.7	30
28	SPH-based numerical treatment of the interfacial interaction of flow with porous media. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 219-245.	0.9	30
29	SWE-SPHysics Simulation of Dam Break Flows at South-Gate Gorges Reservoir. <i>Water (Switzerland)</i> , 2017, 9, 387.	1.2	27
30	Wave Impact Simulations by an Improved ISPH Model. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2014, 140, .	0.5	24
31	3D ISPH erosion model for flow passing a vertical cylinder. <i>Journal of Fluids and Structures</i> , 2018, 78, 374-399.	1.5	24
32	Cylindrical Smoothed Particle Hydrodynamics Simulations of Water Entry. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	24
33	An improved solid boundary treatment for wave-float interactions using ISPH method. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2018, 10, 329-347.	1.0	20
34	Modelling of Violent Water Wave Propagation and Impact by Incompressible SPH with First-Order Consistent Kernel Interpolation Scheme. <i>Water (Switzerland)</i> , 2017, 9, 400.	1.2	19
35	Incompressible SPH simulation of open channel flow over smooth bed. <i>Journal of Hydro-Environment Research</i> , 2015, 9, 340-353.	1.0	18
36	MPM simulation of solitary wave run-up on permeable boundaries. <i>Applied Ocean Research</i> , 2021, 111, 102602.	1.8	18

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37	Study on SPH Viscosity Term Formulations. Applied Sciences (Switzerland), 2018, 8, 249.	1.3	16
38	SPH study of the evolution of water-water interfaces in dam break flows. Natural Hazards, 2015, 78, 531-553.	1.6	15
39	Smoothed Particle Hydrodynamics Simulation of Wave Overtopping Characteristics for Different Coastal Structures. Scientific World Journal, The, 2012, 2012, 1-10.	0.8	14
40	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
41	Advances in Modelling and Prediction on the Impact of Human Activities and Extreme Events on Environments. Water (Switzerland), 2020, 12, 1768.	1.2	14
42	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
43	Water-sediment flow modeling for field case studies in Southwest China. Natural Hazards, 2015, 78, 1197-1224.	1.6	9
44	SPH modeling of tidal bore scenarios. Natural Hazards, 2015, 75, 1247-1270.	1.6	6
45	An Improved 2D + t Incompressible Smoothed Particle Hydrodynamics Approach for High-Speed Vessel Waves. Journal of Coastal Research, 2019, 35, 1106.	0.1	5
46	Applications of Coupled Explicit-Implicit Solution of SWEs for Unsteady Flow in Yangtze River. Water (Switzerland), 2017, 9, 91.	1.2	3
47	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
48	Study on two-phase dynamic behaviours within non-homogeneous debris flow. Water Management, 2018, 171, 283-298.	0.4	1
49	MODELING OF WAVE OVERTOPPING USING RANS-VOF AND INCOMPRESSIBLE SPH MODELS. , 2009, , .		0