

Jian-min Zhang

List of Publications by Year in descending order

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67
papers

872
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471509

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68
all docs

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docs citations

68
times ranked

579
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-condensable gas bubble dissolution with a modified tunable surface tension multicomponent lattice Boltzmann model. <i>Computers and Fluids</i> , 2022, 233, 105252.	2.5	14
2	Analysis of Energy Dissipation of Interval-Pooled Stepped Spillways. <i>Entropy</i> , 2022, 24, 85.	2.2	2
3	A Concise Method to Predict the Mean Dynamic Pressure on a Plunge Pool Slab. <i>Entropy</i> , 2022, 24, 45.	2.2	0
4	Dynamic pressure fields in a local scour hole formed by a submerged wall jet. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2022, 60, 701-711.	1.7	2
5	Numerical Study of Hydrodynamics and Water Quality in Qinhuangdao Coastal Waters, China: Implication for Pollutant Loadings Management. <i>Environmental Modeling and Assessment</i> , 2021, 26, 63-76.	2.2	4
6	Numerical Simulation Study on Distribution of Bubble in Flow near Aerator Based on CFD-PBM Coupled Model in Tunnel. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-24.	1.1	3
7	Thermal pseudo-potential lattice Boltzmann method for simulating cavitation bubbles collapse near a rigid boundary. <i>Computers and Fluids</i> , 2021, 217, 104817.	2.5	25
8	Study on seepage and adsorption characteristics of porous media containing adsorbent based on lattice Boltzmann. <i>AIP Advances</i> , 2021, 11, .	1.3	10
9	Spatiotemporal Variations in Water Flow and Quality in the Sanyang Wetland, China: Implications for Environmental Restoration. <i>Sustainability</i> , 2021, 13, 4637.	3.2	6
10	Study on the effect of municipal solid landfills on groundwater by combining the models of variable leakage rate, leachate concentration, and contaminant solute transport. <i>Journal of Environmental Management</i> , 2021, 292, 112815.	7.8	12
11	Centrifuge Shaking Table Tests on Precast Underground Structure“Superstructure System in Liquefiable Ground. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	3.0	25
12	Approximate Analytical Solution and Laboratory Experiments for Dam-Break Wave Tip Region in Triangular Channels. <i>Journal of Hydraulic Engineering</i> , 2021, 147, 06021015.	1.5	4
13	Analytical Solution of Shallow Water Equations for Ideal Dam-Break Flood along a Wet-Bed Slope. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	8
14	Cavitation bubble collapse between parallel rigid walls with the three-dimensional multi-relaxation time pseudopotential lattice Boltzmann method. <i>AIP Advances</i> , 2020, 10, .	1.3	16
15	Experimental study on the adsorption of dissolved heavy metals by nano-hydroxyapatite. <i>Water Science and Technology</i> , 2020, 82, 1825-1832.	2.5	7
16	Analytical and Experimental Investigations of Dam-Break Flows in Triangular Channels with Wet-Bed Conditions. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	13
17	Gate-Opening Criterion for Generating Dam-Break Flow in Non-Rectangular Wet Bed Channels. <i>Energies</i> , 2020, 13, 6280.	3.1	6
18	Numerical Simulation of the Hydraulic Performances and Flow Pattern of Swallow-Tailed Flip Bucket. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-14.	1.1	1

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19	Experimental investigation on the effects of bed slope and tailwater on dam-break flows. <i>Journal of Hydrology</i> , 2020, 590, 125256.	5.4	14
20	Experimental and numerical investigations of similarity for dam-break flows on wet bed. <i>Journal of Hydrology</i> , 2020, 583, 124598.	5.4	22
21	Enhancement of semi-theoretical models for predicting peak discharges in breached embankment dams. <i>Environmental Fluid Mechanics</i> , 2020, 20, 885-904.	1.6	10
22	Study of cavitation bubble collapse near a rigid boundary with a multi-relaxation-time pseudo-potential lattice Boltzmann method. <i>AIP Advances</i> , 2020, 10, .	1.3	17
23	Dissolution process of a single bubble under pressure with a large-density-ratio multicomponent multiphase lattice Boltzmann model. <i>Physical Review E</i> , 2020, 102, 063306.	2.1	18
24	Dependency of Dilatancy Ratio on Fabric Anisotropy in Granular Materials. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	2.9	27
25	Prediction of nitrate accumulation and leaching beneath groundwater irrigated corn fields in the Upper Platte basin under a future climate scenario. <i>Science of the Total Environment</i> , 2019, 685, 514-526.	8.0	20
26	Comparison of measured dam-break flood waves in triangular and rectangular channels. <i>Journal of Hydrology</i> , 2019, 575, 690-703.	5.4	22
27	Three-Dimensional Turbulence Numerical Simulation of Flow in a Stepped Dropshaft. <i>Water (Switzerland)</i> , 2019, 11, 30.	2.7	10
28	Deformation of Granular Material under Continuous Rotation of Stress Principal Axes. <i>International Journal of Geomechanics</i> , 2019, 19, .	2.7	20
29	Numerical Simulation of Flow and Temperature Fields in a Deep Stratified Reservoir Using Water-Separating Curtain. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 5143.	2.6	4
30	Numerical Study of the Velocity Decay of Offset Jet in a Narrow and Deep Pool. <i>Water (Switzerland)</i> , 2019, 11, 59.	2.7	3
31	Cavity length downstream of a sudden fall-expansion aerator in chute. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 2053-2062.	2.1	2
32	Numerical investigation of air-water flow properties over steep flat and pooled stepped spillways. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2018, 56, 1-14.	1.7	25
33	Quantitative response of leaf litter decomposition rate to water abstraction in a gradient: Implications for environmental flow management. <i>Ecohydrology</i> , 2018, 11, e1919.	2.4	5
34	Pressure distributions of stepped spillways with different horizontal face angles. <i>Water Management</i> , 2018, 171, 299-310.	1.2	7
35	Air concentration and velocity downstream of an expanding chute aerator. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2018, 56, 412-423.	1.7	2
36	Characteristics of aeration in the flow downstream of a radial gate with a sudden fall-expansion aerator in a discharge tunnel. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 790-798.	2.1	0

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37	Experimental Optimization of Gate-Opening Modes to Minimize Near-Field Vibrations in Hydropower Stations. <i>Water (Switzerland)</i> , 2018, 10, 1435.	2.7	4
38	Three-Dimensional Aerators: Characteristics of the Air Bubbles. <i>Water (Switzerland)</i> , 2018, 10, 1430.	2.7	0
39	Three-Dimensional Direct-Shear Behaviors of a Gravel-Structure Interface. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, 04018095.	3.0	23
40	Numerical Investigation on the Hydraulic Properties of the Skimming Flow over Pooled Stepped Spillway. <i>Water (Switzerland)</i> , 2018, 10, 1478.	2.7	22
41	Study of Cavitation Bubble Collapse near a Wall by the Modified Lattice Boltzmann Method. <i>Water (Switzerland)</i> , 2018, 10, 1439.	2.7	14
42	Exact Solution to Navier-Stokes Equation for Developed Radial Flow between Parallel Disks. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	2.9	4
43	Time evolution of water surface oscillations in surge tanks. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 657-667.	1.7	7
44	Hydraulic Prediction of Near-Field Vibrations Induced by Releasing Flood. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	8
45	Second-order force scheme for lattice Boltzmann model of shallow water flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 592-597.	1.7	18
46	Exact Solution for Asymmetric Turbulent Channel Flow with Applications in Ice-Covered Rivers. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	15
47	Evolution of Various Fabric Tensors for Granular Media toward the Critical State. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	2.9	53
48	Characterization of the mean velocity of a circular jet in a bounded basin. <i>Journal of Zhejiang University: Science A</i> , 2017, 18, 807-818.	2.4	3
49	Comparison of Different Turbulence Models for Numerical Simulation of Pressure Distribution in V-Shaped Stepped Spillway. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-9.	1.1	13
50	Numerical Simulation of an Offset Jet in Bounded Pool with Deflection Wall. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-11.	1.1	2
51	Theoretical relationship between energy consumption and economic output. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2016, 11, 643-650.	3.4	6
52	Simulation and Experiments of Aerated Flow in Curve-Connective Tunnel with High Head and Large Discharge. <i>International Journal of Civil Engineering</i> , 2016, 14, 23-33.	2.0	12
53	Evolution of Pressure and Cavitation on Side Walls Affected by Lateral Divergence Angle and Opening of Radial Gate. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	1.5	16
54	Velocity distributions in laminar and turbulent vegetated flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 117-130.	1.7	18

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55	The simulation of a landslide-induced surge wave and its overtopping of a dam using a coupled ISPH model. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015, 9, 432-444.	3.1	19
56	Energy dissipation and flow characteristics of baffles and sills on stepped spillways. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 140-142.	1.7	3
57	Particle image velocimetry measurements of vortex structures in stilling basin of multi-horizontal submerged jets. <i>Journal of Hydrodynamics</i> , 2013, 25, 556-563.	3.2	12
58	Scale effects of incipient cavitation for high-speed flows. <i>Water Management</i> , 2013, 166, 402-408.	1.2	3
59	Discussion of "Chute Aerators. II: Hydraulic Design" by Michael Pfister and Willi H. Hager. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 573-573.	1.5	0
60	Experimental study on time-averaged pressures in stepped spillway. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012, 50, 236-240.	1.7	18
61	Three-Dimensional Numerical Simulation of Aerated Flows Downstream Sudden Fall Aerator Expansion-In a Tunnel. <i>Journal of Hydrodynamics</i> , 2011, 23, 71-80.	3.2	29
62	Experimental Investigation of Cavitation in a Sudden Expansion Pipe. <i>Journal of Hydrodynamics</i> , 2011, 23, 348-352.	3.2	4
63	A simple method to analyze the similarity of biological sequences based on the fuzzy theory. <i>Journal of Theoretical Biology</i> , 2010, 265, 323-328.	1.7	5
64	Numerical Simulation of the Energy Dissipation Characteristics in Stilling Basin of Multi-Horizontal Submerged Jets. <i>Journal of Hydrodynamics</i> , 2010, 22, 732-741.	3.2	25
65	Scale Effects of Air-Water Flows in Stilling Basin of Multi-Horizontal Submerged Jets. <i>Journal of Hydrodynamics</i> , 2010, 22, 788-795.	3.2	16
66	Effects of Strain Localization on Seismic Active Earth Pressures. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 999-1003.	3.0	8
67	Drained Deformation Behavior of Anisotropic Sands during Cyclic Rotation of Principal Stress Axes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 1509-1518.	3.0	106