

Jian-min Zhang

List of Publications by Year in descending order

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papers

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471509

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579
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#	ARTICLE	IF	CITATIONS
1	Drained Deformation Behavior of Anisotropic Sands during Cyclic Rotation of Principal Stress Axes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1509-1518.	3.0	106
2	Evolution of Various Fabric Tensors for Granular Media toward the Critical State. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	53
3	Three-Dimensional Numerical Simulation of Aerated Flows Downstream Sudden Fall Aerator Expansion-In a Tunnel. Journal of Hydrodynamics, 2011, 23, 71-80.	3.2	29
4	Dependency of Dilatancy Ratio on Fabric Anisotropy in Granular Materials. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	27
5	Numerical Simulation of the Energy Dissipation Characteristics in Stilling Basin of Multi-Horizontal Submerged Jets. Journal of Hydrodynamics, 2010, 22, 732-741.	3.2	25
6	Numerical investigation of air-water flow properties over steep flat and pooled stepped spillways. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 1-14.	1.7	25
7	Thermal pseudo-potential lattice Boltzmann method for simulating cavitation bubbles collapse near a rigid boundary. Computers and Fluids, 2021, 217, 104817.	2.5	25
8	Centrifuge Shaking Table Tests on Precast Underground Structure-Superstructure System in Liquefiable Ground. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	25
9	Three-Dimensional Direct-Shear Behaviors of a Gravel-Structure Interface. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, 04018095.	3.0	23
10	Numerical Investigation on the Hydraulic Properties of the Skimming Flow over Pooled Stepped Spillway. Water (Switzerland), 2018, 10, 1478.	2.7	22
11	Comparison of measured dam-break flood waves in triangular and rectangular channels. Journal of Hydrology, 2019, 575, 690-703.	5.4	22
12	Experimental and numerical investigations of similarity for dam-break flows on wet bed. Journal of Hydrology, 2020, 583, 124598.	5.4	22
13	Prediction of nitrate accumulation and leaching beneath groundwater irrigated corn fields in the Upper Platte basin under a future climate scenario. Science of the Total Environment, 2019, 685, 514-526.	8.0	20
14	Deformation of Granular Material under Continuous Rotation of Stress Principal Axes. International Journal of Geomechanics, 2019, 19, .	2.7	20
15	The simulation of a landslide-induced surge wave and its overtopping of a dam using a coupled ISPH model. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 432-444.	3.1	19
16	Experimental study on time-averaged pressures in stepped spillway. Journal of Hydraulic Research/De Recherches Hydrauliques, 2012, 50, 236-240.	1.7	18
17	Velocity distributions in laminar and turbulent vegetated flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 117-130.	1.7	18
18	Second-order force scheme for lattice Boltzmann model of shallow water flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 592-597.	1.7	18

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Exact Solution for Asymmetric Turbulent Channel Flow with Applications in Ice-Covered Rivers. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	15
25	Study of Cavitation Bubble Collapse near a Wall by the Modified Lattice Boltzmann Method. <i>Water (Switzerland)</i> , 2018, 10, 1439.	2.7	14
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	Three-Dimensional Turbulence Numerical Simulation of Flow in a Stepped Dropshaft. <i>Water (Switzerland)</i> , 2019, 11, 30.	2.7	10
34	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
35	Study on seepage and adsorption characteristics of porous media containing adsorbent based on lattice Boltzmann. <i>AIP Advances</i> , 2021, 11, .	1.3	10
36	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

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37	Hydraulic Prediction of Near-Field Vibrations Induced by Releasing Flood. Journal of Hydraulic Engineering, 2017, 143, .	1.5	8
38	Analytical Solution of Shallow Water Equations for Ideal Dam-Break Flood along a Wet-Bed Slope. Journal of Hydraulic Engineering, 2020, 146, .	1.5	8
39	Time evolution of water surface oscillations in surge tanks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 657-667.	1.7	7
40	Pressure distributions of stepped spillways with different horizontal face angles. Water Management, 2018, 171, 299-310.	1.2	7
41	Experimental study on the adsorption of dissolved heavy metals by nano-hydroxyapatite. Water Science and Technology, 2020, 82, 1825-1832.	2.5	7
42	Theoretical relationship between energy consumption and economic output. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 643-650.	3.4	6
43	Gate-Opening Criterion for Generating Dam-Break Flow in Non-Rectangular Wet Bed Channels. Energies, 2020, 13, 6280.	3.1	6
44	Spatiotemporal Variations in Water Flow and Quality in the Sanyang Wetland, China: Implications for Environmental Restoration. Sustainability, 2021, 13, 4637.	3.2	6
45	A simple method to analyze the similarity of biological sequences based on the fuzzy theory. Journal of Theoretical Biology, 2010, 265, 323-328.	1.7	5
46	Quantitative response of leaf litter decomposition rate to water abstraction in a gradient: Implications for environmental flow management. Ecohydrology, 2018, 11, e1919.	2.4	5
47	Experimental Investigation of Cavitation in a Sudden Expansion Pipe. Journal of Hydrodynamics, 2011, 23, 348-352.	3.2	4
48	Exact Solution to Navier-Stokes Equation for Developed Radial Flow between Parallel Disks. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	4
49	Experimental Optimization of Gate-Opening Modes to Minimize Near-Field Vibrations in Hydropower Stations. Water (Switzerland), 2018, 10, 1435.	2.7	4
50	Numerical Simulation of Flow and Temperature Fields in a Deep Stratified Reservoir Using Water-Separating Curtain. International Journal of Environmental Research and Public Health, 2019, 16, 5143.	2.6	4
51	Numerical Study of Hydrodynamics and Water Quality in Qinhuangdao Coastal Waters, China: Implication for Pollutant Loadings Management. Environmental Modeling and Assessment, 2021, 26, 63-76.	2.2	4
52	Approximate Analytical Solution and Laboratory Experiments for Dam-Break Wave Tip Region in Triangular Channels. Journal of Hydraulic Engineering, 2021, 147, 06021015.	1.5	4
53	Scale effects of incipient cavitation for high-speed flows. Water Management, 2013, 166, 402-408.	1.2	3
54	Energy dissipation and flow characteristics of baffles and sills on stepped spillways. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 140-142.	1.7	3

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55	Characterization of the mean velocity of a circular jet in a bounded basin. Journal of Zhejiang University: Science A, 2017, 18, 807-818.	2.4	3
56	Numerical Study of the Velocity Decay of Offset Jet in a Narrow and Deep Pool. Water (Switzerland), 2019, 11, 59.	2.7	3
57	Numerical Simulation Study on Distribution of Bubble in Flow near Aerator Based on CFD-PBM Coupled Model in Tunnel. Mathematical Problems in Engineering, 2021, 2021, 1-24.	1.1	3
58	Numerical Simulation of an Offset Jet in Bounded Pool with Deflection Wall. Mathematical Problems in Engineering, 2017, 2017, 1-11.	1.1	2
59	Cavity length downstream of a sudden fall-expansion aerator in chute. Water Science and Technology: Water Supply, 2018, 18, 2053-2062.	2.1	2
60	Air concentration and velocity downstream of an expanding chute aerator. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 412-423.	1.7	2
61	Analysis of Energy Dissipation of Interval-Pooled Stepped Spillways. Entropy, 2022, 24, 85.	2.2	2
62	Dynamic pressure fields in a local scour hole formed by a submerged wall jet. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 701-711.	1.7	2
63	Numerical Simulation of the Hydraulic Performances and Flow Pattern of Swallow-Tailed Flip Bucket. Mathematical Problems in Engineering, 2020, 2020, 1-14.	1.1	1
64	Discussion of "Chute Aerators. II: Hydraulic Design" by Michael Pfister and Willi H. Hager. Journal of Hydraulic Engineering, 2012, 138, 573-573.	1.5	0
65	Characteristics of aeration in the flow downstream of a radial gate with a sudden fall-expansion aerator in a discharge tunnel. Water Science and Technology: Water Supply, 2018, 18, 790-798.	2.1	0
66	Three-Dimensional Aerators: Characteristics of the Air Bubbles. Water (Switzerland), 2018, 10, 1430.	2.7	0
67	A Concise Method to Predict the Mean Dynamic Pressure on a Plunge Pool Slab. Entropy, 2022, 24, 45.	2.2	0