

Jian Guo Zhou

List of Publications by Year in descending order

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71
papers

2,416
citations

304743

22
h-index

214800

47
g-index

75
all docs

75
docs citations

75
times ranked

1776
citing authors

#	ARTICLE	IF	CITATIONS
1	The Surface Gradient Method for the Treatment of Source Terms in the Shallow-Water Equations. Journal of Computational Physics, 2001, 168, 1-25.	3.8	480
2	Integrated analysis of risks of coastal flooding and cliff erosion under scenarios of long term change. Climatic Change, 2009, 95, 249-288.	3.6	205
3	Lattice Boltzmann Methods for Shallow Water Flows. , 2004, , .		134
4	Major agricultural changes required to mitigate phosphorus losses under climate change. Nature Communications, 2017, 8, 161.	12.8	121
5	Shallow-water flow solver with non-hydrostatic pressure: 2D vertical plane problems. International Journal for Numerical Methods in Fluids, 1998, 28, 541-563.	1.6	115
6	Changing climate and nutrient transfers: Evidence from high temporal resolution concentration-flow dynamics in headwater catchments. Science of the Total Environment, 2016, 548-549, 325-339.	8.0	102
7	Numerical Prediction of Dam-Break Flows in General Geometries with Complex Bed Topography. Journal of Hydraulic Engineering, 2004, 130, 332-340.	1.5	98
8	Numerical solutions of the shallow water equations with discontinuous bed topography. International Journal for Numerical Methods in Fluids, 2002, 38, 769-788.	1.6	92
9	A lattice Boltzmann model for the shallow water equations. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3527-3539.	6.6	91
10	Axisymmetric lattice Boltzmann method. Physical Review E, 2008, 78, 036701.	2.1	64
11	Velocity-Depth Coupling in Shallow-Water Flows. Journal of Hydraulic Engineering, 1995, 121, 717-724.	1.5	48
12	Axisymmetric lattice Boltzmann method revised. Physical Review E, 2011, 84, 036704.	2.1	47
13	Lattice Boltzmann simulations of the transient shallow water flows. Advances in Water Resources, 2010, 33, 387-396.	3.8	46
14	A LATTICE BOLTZMANN MODEL FOR THE SHALLOW WATER EQUATIONS WITH TURBULENCE MODELING. International Journal of Modern Physics C, 2002, 13, 1135-1150.	1.7	43
15	A lattice Boltzmann method for solute transport. International Journal for Numerical Methods in Fluids, 2009, 61, 848-863.	1.6	41
16	The challenges of modelling phosphorus in a headwater catchment: Applying a "limits of acceptability"™ uncertainty framework to a water quality model. Journal of Hydrology, 2018, 558, 607-624.	5.4	41
17	Multi-block lattice Boltzmann simulations of subcritical flow in open channel junctions. Computers and Fluids, 2009, 38, 1108-1117.	2.5	40
18	An arbitrary Lagrangian-Eulerian \tilde{f} (ALES) model with non-hydrostatic pressure for shallow water flows. Computer Methods in Applied Mechanics and Engineering, 1999, 178, 199-214.	6.6	38

#	ARTICLE	IF	CITATIONS
19	Modelling solute transport in shallow water with the lattice Boltzmann method. Computers and Fluids, 2011, 50, 181-188.	2.5	37
20	Modeling Free-Surface Flow in Rectangular Shallow Basins by Using Lattice Boltzmann Method. Journal of Hydraulic Engineering, 2011, 137, 1680-1685.	1.5	32
21	Enhancement of the LABSWE for shallow water flows. Journal of Computational Physics, 2011, 230, 394-401.	3.8	29
22	2D shallow water flow model for the hydraulic jump. International Journal for Numerical Methods in Fluids, 1999, 29, 375-387.	1.6	28
23	AN ELASTIC-COLLISION SCHEME FOR LATTICE BOLTZMANN METHODS. International Journal of Modern Physics C, 2001, 12, 387-401.	1.7	25
24	LATTICE BOLTZMANN SIMULATIONS OF DISCONTINUOUS FLOWS. International Journal of Modern Physics C, 2007, 18, 1-14.	1.7	23
25	Multi-block lattice Boltzmann simulations of solute transport in shallow water flows. Advances in Water Resources, 2013, 58, 24-40.	3.8	22
26	Lattice Boltzmann Model Using Two Relaxation Times for Shallow-Water Equations. Journal of Hydraulic Engineering, 2016, 142, .	1.5	22
27	Study on Microcystis aeruginosa growth in incubator experiments by combination of Logistic and Monod functions. Algal Research, 2018, 35, 602-612.	4.6	21
28	Tidal energy potential in UK waters. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2009, 162, 155-164.	0.2	20
29	Rectangular lattice Boltzmann method. Physical Review E, 2010, 81, 026705.	2.1	19
30	MRT RECTANGULAR LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2012, 23, 1250040.	1.7	19
31	Lattice Boltzmann approach to simulating a wettingâ€“drying front in shallow flows. Journal of Fluid Mechanics, 2014, 743, 32-59.	3.4	19
32	Inlet and outlet boundary conditions for the Lattice-Boltzmann modelling of shallow water flows. Progress in Computational Fluid Dynamics, 2012, 12, 11.	0.2	18
33	Lattice Boltzmann Method for Advection and Anisotropic Dispersion Equation. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	2.2	16
34	Determination of bed elevation in the enhanced lattice Boltzmann method for the shallow-water equations. Physical Review E, 2013, 88, 023302.	2.1	16
35	Numerical modeling of turbulent compound channel flow using the lattice Boltzmann method. International Journal for Numerical Methods in Fluids, 2009, 59, 753-765.	1.6	15
36	A method for uncertainty constraint of catchment discharge and phosphorus load estimates. Hydrological Processes, 2018, 32, 2779-2787.	2.6	15

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37	Lattice Boltzmann modeling of shallow water flows over discontinuous beds. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 75, 608-619.	1.6	14
38	Lattice Boltzmann method for the fractional advection-diffusion equation. <i>Physical Review E</i> , 2016, 93, 043310.	2.1	13
39	Determining the Effect of Drying Time on Phosphorus Solubilization from Three Agricultural Soils under Climate Change Scenarios. <i>Journal of Environmental Quality</i> , 2017, 46, 1131-1136.	2.0	13
40	A LATTICE BOLTZMANN MODEL FOR GROUNDWATER FLOWS. <i>International Journal of Modern Physics C</i> , 2007, 18, 973-991.	1.7	12
41	Characteristics of a hydraulic jump in Bingham fluid. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006, 44, 421-426.	1.7	10
42	Mixed numerical method for bed evolution. <i>Water Management</i> , 2015, 168, 3-15.	1.2	10
43	A RECTANGULAR LATTICE BOLTZMANN METHOD FOR GROUNDWATER FLOWS. <i>Modern Physics Letters B</i> , 2007, 21, 531-542.	1.9	9
44	Prediction of storm transfers and annual loads with data-based mechanistic models using high-frequency data. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6425-6444.	4.9	9
45	A finite volume method for steady state 2D shallow water flows. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1997, 7, 4-23.	2.8	8
46	Lattice Boltzmann method for open-channel flows. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2010, 163, 243-249.	0.4	8
47	Risk Assessment of Upper-Middle Reaches of Luanhe River Basin in Sudden Water Pollution Incidents Based on Control Units of Water Function Areas. <i>Water (Switzerland)</i> , 2018, 10, 1268.	2.7	8
48	A Finite Volume Based Fully Nonlinear Potential Flow Model for Water Wave Problems. <i>Applied Ocean Research</i> , 2021, 106, 102445.	4.1	7
49	Lattice Boltzmann method for variable density shallow water equations. <i>Computers and Fluids</i> , 2011, 49, 146-149.	2.5	6
50	Study on release kinetics of nitrogen and phosphorus from fish feed. <i>Aquaculture Research</i> , 2020, 51, 3216-3229.	1.8	6
51	Macroscopic Lattice Boltzmann Method. <i>Water (Switzerland)</i> , 2021, 13, 61.	2.7	6
52	Lattice Boltzmann morphodynamic model. <i>Journal of Computational Physics</i> , 2014, 270, 255-264.	3.8	5
53	MODELING MOVING BOUNDARY IN SHALLOW WATER BY LBM. <i>International Journal of Modern Physics C</i> , 2013, 24, 1250094.	1.7	4
54	Hydraulic jump analysis for a Bingham fluid. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2007, 45, 555-562.	1.7	3

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55	Bridge Afflux Predictions Using the Lattice Boltzmann Method. <i>Procedia Environmental Sciences</i> , 2010, 2, 1881-1893.	1.4	3
56	Lattice Boltzmann method for axisymmetric turbulent flows. <i>International Journal of Modern Physics C</i> , 2015, 26, 1550099.	1.7	3
57	Numerical study of the antibiotic transport and distribution in the Laizhou Bay, China. <i>Environmental Science and Pollution Research</i> , 2020, 27, 37760-37772.	5.3	3
58	Numerically Simulating Seawall Overtopping. , 2001, , 2086.		1
59	A Lattice Boltzmann Model for Dam Break Flows. , 2009, , .		1
60	Tidal Power from the Estuaries of NW England. , 2010, , 648-659.		1
61	Enhanced Lattice Boltzmann modelling of axisymmetric flows. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2014, 167, 156-166.	0.4	1
62	Macroscopic axisymmetric lattice Boltzmann method (MacAxLAB). <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 376, 113657.	6.6	1
63	Interaction among Hydrological, Environmental, and Ecological Processes in Aquatic Ecosystems. <i>Water (Switzerland)</i> , 2021, 13, 3389.	2.7	1
64	Advances in Numerical Techniques for Modelling Water Flows. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-2.	1.1	0
65	Techniques and Applications in Water Science and Engineering. <i>Water (Switzerland)</i> , 2020, 12, 2028.	2.7	0
66	Turbulence Modelling. , 2004, , 47-52.		0
67	LONG-TERM PREDICTION OF NEARSHORE WAVE CLIMATE WITH AN APPLICATION TO CLIFF EROSION. , 2007, , .		0
68	A FUNDAMENTAL EXPERIMENTAL AND NUMERICAL STUDY OF LARGE SCALE MORPHODYNAMICS OF SANDBANKS IN STEADY AND OSCILLATORY FLOWS. , 2007, , .		0
69	INTERPRETATION OF LARGE-SCALE MORPHODYNAMIC LABORATORY EXPERIMENTS: SPOIL HEAPS AND SANDBANKS. , 2009, , .		0
70	Environmental Flow Mechanism and Management for <sc>River&Lake&Marsh</sc> Systems. <i>Hydrological Processes</i> , 0, , .	2.6	0
71	Macroscopic Lattice Boltzmann Method for Shallow Water Equations. <i>Water (Switzerland)</i> , 2022, 14, 2065.	2.7	0