

# 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	Macroscopic Lattice Boltzmann Method for Shallow Water Equations. <i>Water (Switzerland)</i> , 2022, 14, 2065.	2.7	0
2	A Finite Volume Based Fully Nonlinear Potential Flow Model for Water Wave Problems. <i>Applied Ocean Research</i> , 2021, 106, 102445.	4.1	7
3	Macroscopic axisymmetric lattice Boltzmann method (MacAxLAB). <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 376, 113657.	6.6	1
4	Macroscopic Lattice Boltzmann Method. <i>Water (Switzerland)</i> , 2021, 13, 61.	2.7	6
5	Interaction among Hydrological, Environmental, and Ecological Processes in Aquatic Ecosystems. <i>Water (Switzerland)</i> , 2021, 13, 3389.	2.7	1
6	Techniques and Applications in Water Science and Engineering. <i>Water (Switzerland)</i> , 2020, 12, 2028.	2.7	0
7	Study on release kinetics of nitrogen and phosphorus from fish feed. <i>Aquaculture Research</i> , 2020, 51, 3216-3229.	1.8	6
8	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
9	The challenges of modelling phosphorus in a headwater catchment: Applying a "limits of acceptability"™ uncertainty framework to a water quality model. <i>Journal of Hydrology</i> , 2018, 558, 607-624.	5.4	41
10	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
11	Study on <i>Microcystis aeruginosa</i> growth in incubator experiments by combination of Logistic and Monod functions. <i>Algal Research</i> , 2018, 35, 602-612.	4.6	21
12	Advances in Numerical Techniques for Modelling Water Flows. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-2.	1.1	0
13	A method for uncertainty constraint of catchment discharge and phosphorus load estimates. <i>Hydrological Processes</i> , 2018, 32, 2779-2787.	2.6	15
14	Major agricultural changes required to mitigate phosphorus losses under climate change. <i>Nature Communications</i> , 2017, 8, 161.	12.8	121
15	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
16	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
17	Lattice Boltzmann method for the fractional advection-diffusion equation. <i>Physical Review E</i> , 2016, 93, 043310.	2.1	13
18	Changing climate and nutrient transfers: Evidence from high temporal resolution concentration-flow dynamics in headwater catchments. <i>Science of the Total Environment</i> , 2016, 548-549, 325-339.	8.0	102

#	ARTICLE	IF	CITATIONS
19	Lattice Boltzmann Model Using Two Relaxation Times for Shallow-Water Equations. Journal of Hydraulic Engineering, 2016, 142, .	1.5	22
20	Mixed numerical method for bed evolution. Water Management, 2015, 168, 3-15.	1.2	10
21	Lattice Boltzmann method for axisymmetric turbulent flows. International Journal of Modern Physics C, 2015, 26, 1550099.	1.7	3
22	Enhanced Lattice Boltzmann modelling of axisymmetric flows. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2014, 167, 156-166.	0.4	1
23	Lattice Boltzmann morphodynamic model. Journal of Computational Physics, 2014, 270, 255-264.	3.8	5
24	Lattice Boltzmann modeling of shallow water flows over discontinuous beds. International Journal for Numerical Methods in Fluids, 2014, 75, 608-619.	1.6	14
25	Lattice Boltzmann approach to simulating a wetting-drying front in shallow flows. Journal of Fluid Mechanics, 2014, 743, 32-59.	3.4	19
26	Multi-block lattice Boltzmann simulations of solute transport in shallow water flows. Advances in Water Resources, 2013, 58, 24-40.	3.8	22
27	Determination of bed elevation in the enhanced lattice Boltzmann method for the shallow-water equations. Physical Review E, 2013, 88, 023302.	2.1	16
28	MODELING MOVING BOUNDARY IN SHALLOW WATER BY LBM. International Journal of Modern Physics C, 2013, 24, 1250094.	1.7	4
29	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
30	MRT RECTANGULAR LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2012, 23, 1250040.	1.7	19
31	Axisymmetric lattice Boltzmann method revised. Physical Review E, 2011, 84, 036704.	2.1	47
32	Modelling solute transport in shallow water with the lattice Boltzmann method. Computers and Fluids, 2011, 50, 181-188.	2.5	37
33	Lattice Boltzmann method for variable density shallow water equations. Computers and Fluids, 2011, 49, 146-149.	2.5	6
34	Enhancement of the LABSWE for shallow water flows. Journal of Computational Physics, 2011, 230, 394-401.	3.8	29
35	Lattice Boltzmann Method for Advection and Anisotropic Dispersion Equation. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	2.2	16
36	Modeling Free-Surface Flow in Rectangular Shallow Basins by Using Lattice Boltzmann Method. Journal of Hydraulic Engineering, 2011, 137, 1680-1685.	1.5	32

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37	Lattice Boltzmann method for open-channel flows. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2010, 163, 243-249.	0.4	8
38	Tidal Power from the Estuaries of NW England. , 2010, , 648-659.		1
39	Lattice Boltzmann simulations of the transient shallow water flows. Advances in Water Resources, 2010, 33, 387-396.	3.8	46
40	Rectangular lattice Boltzmann method. Physical Review E, 2010, 81, 026705.	2.1	19
41	Bridge Afflux Predictions Using the Lattice Boltzmann Method. Procedia Environmental Sciences, 2010, 2, 1881-1893.	1.4	3
42	A Lattice Boltzmann Model for Dam Break Flows. , 2009, , .		1
43	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
44	A lattice Boltzmann method for solute transport. International Journal for Numerical Methods in Fluids, 2009, 61, 848-863.	1.6	41
45	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
46	Multi-block lattice Boltzmann simulations of subcritical flow in open channel junctions. Computers and Fluids, 2009, 38, 1108-1117.	2.5	40
47	Tidal energy potential in UK waters. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2009, 162, 155-164.	0.2	20
48	INTERPRETATION OF LARGE-SCALE MORPHODYNAMIC LABORATORY EXPERIMENTS: SPOIL HEAPS AND SANDBANKS. , 2009, , .		0
49	Axisymmetric lattice Boltzmann method. Physical Review E, 2008, 78, 036701.	2.1	64
50	A LATTICE BOLTZMANN MODEL FOR GROUNDWATER FLOWS. International Journal of Modern Physics C, 2007, 18, 973-991.	1.7	12
51	A RECTANGULAR LATTICE BOLTZMANN METHOD FOR GROUNDWATER FLOWS. Modern Physics Letters B, 2007, 21, 531-542.	1.9	9
52	Hydraulic jump analysis for a Bingham fluid. Journal of Hydraulic Research/De Recherches Hydrauliques, 2007, 45, 555-562.	1.7	3
53	LATTICE BOLTZMANN SIMULATIONS OF DISCONTINUOUS FLOWS. International Journal of Modern Physics C, 2007, 18, 1-14.	1.7	23
54	LONG-TERM PREDICTION OF NEARSHORE WAVE CLIMATE WITH AN APPLICATION TO CLIFF EROSION. , 2007, , .		0

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55	A FUNDAMENTAL EXPERIMENTAL AND NUMERICAL STUDY OF LARGE SCALE MORPHODYNAMICS OF SANDBANKS IN STEADY AND OSCILLATORY FLOWS. , 2007, , .		0
56	Characteristics of a hydraulic jump in Bingham fluid. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 421-426.	1.7	10
57	Numerical Prediction of Dam-Break Flows in General Geometries with Complex Bed Topography. Journal of Hydraulic Engineering, 2004, 130, 332-340.	1.5	98
58	Lattice Boltzmann Methods for Shallow Water Flows. , 2004, , .		134
59	Turbulence Modelling. , 2004, , 47-52.		0
60	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
61	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
62	A lattice Boltzmann model for the shallow water equations. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3527-3539.	6.6	91
63	AN ELASTIC-COLLISION SCHEME FOR LATTICE BOLTZMANN METHODS. International Journal of Modern Physics C, 2001, 12, 387-401.	1.7	25
64	Numerically Simulating Seawall Overtopping. , 2001, , 2086.		1
65	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
66	An arbitrary Lagrangian-Eulerian ĩf (ALES) model with non-hydrostatic pressure for shallow water flows. Computer Methods in Applied Mechanics and Engineering, 1999, 178, 199-214.	6.6	38
67	2D shallow water flow model for the hydraulic jump. International Journal for Numerical Methods in Fluids, 1999, 29, 375-387.	1.6	28
68	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
69	A finite volume method for steady state 2D shallow water flows. International Journal of Numerical Methods for Heat and Fluid Flow, 1997, 7, 4-23.	2.8	8
70	Velocity-Depth Coupling in Shallow-Water Flows. Journal of Hydraulic Engineering, 1995, 121, 717-724.	1.5	48
71	Environmental Flow Mechanism and Management for <scp>Riverâ€Łakeâ€ŁMarsh</scp> Systems. Hydrological Processes, 0, , .	2.6	0