

## List of Publications by Year in descending order

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84  
papers

2,871  
citations

159358

30  
h-index

182168

51  
g-index

84  
all docs

84  
docs citations

84  
times ranked

1409  
citing authors

#	ARTICLE	IF	CITATIONS
1	General bounce-back scheme for concentration boundary condition in the lattice-Boltzmann method. <i>Physical Review E</i> , 2012, 85, 016701.	0.8	189
2	A novel lattice Boltzmann model for the Poisson equation. <i>Applied Mathematical Modelling</i> , 2008, 32, 2050-2058.	2.2	161
3	Lattice Boltzmann model for the convection-diffusion equation. <i>Physical Review E</i> , 2013, 87, 063309.	0.8	159
4	A Multiple-Relaxation-Time Lattice Boltzmann Model for General Nonlinear Anisotropic Convection-Diffusion Equations. <i>Journal of Scientific Computing</i> , 2016, 69, 355-390.	1.1	122
5	Phase-field-based lattice Boltzmann modeling of large-density-ratio two-phase flows. <i>Physical Review E</i> , 2018, 97, 033309.	0.8	112
6	Multiple-relaxation-time lattice Boltzmann model for generalized Newtonian fluid flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 332-342.	1.0	97
7	A comparative study on the lattice Boltzmann models for predicting effective diffusivity of porous media. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 687-696.	2.5	92
8	Non-Darcy flow in disordered porous media: A lattice Boltzmann study. <i>Computers and Fluids</i> , 2010, 39, 2069-2077.	1.3	87
9	Effect of the forcing term in the multiple-relaxation-time lattice Boltzmann equation on the shear stress or the strain rate tensor. <i>Physical Review E</i> , 2012, 86, 016705.	0.8	81
10	A comparative study of local and nonlocal Allen-Cahn equations with mass conservation. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 631-642.	2.5	77
11	Multiple-relaxation-time lattice Boltzmann method for the Navier-Stokes and nonlinear convection-diffusion equations: Modeling, analysis, and elements. <i>Physical Review E</i> , 2020, 102, 023306.	0.8	77
12	Lattice Boltzmann simulation of surface roughness effect on gaseous flow in a microchannel. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	73
13	Gas Flow Through Square Arrays of Circular Cylinders with Klinkenberg Effect: a Lattice Boltzmann Study. <i>Communications in Computational Physics</i> , 2010, 8, 1052-1073.	0.7	66
14	Effects of temperature-dependent properties on natural convection of power-law nanofluids in rectangular cavities with sinusoidal temperature distribution. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 688-699.	2.5	62
15	Lattice Boltzmann method for contact-line motion of binary fluids with high density ratio. <i>Physical Review E</i> , 2019, 99, 063306.	0.8	55
16	A lattice Boltzmann analysis of the conjugate natural convection in a square enclosure with a circular cylinder. <i>Applied Mathematical Modelling</i> , 2019, 71, 31-44.	2.2	54
17	Nonequilibrium scheme for computing the flux of the convection-diffusion equation in the framework of the lattice Boltzmann method. <i>Physical Review E</i> , 2014, 90, 013305.	0.8	50
18	Lattice Boltzmann modeling of wall-bounded ternary fluid flows. <i>Applied Mathematical Modelling</i> , 2019, 73, 487-513.	2.2	50

#	ARTICLE	IF	CITATIONS
19	Deformation and breakup of a liquid droplet past a solid circular cylinder: A lattice Boltzmann study. <i>Physical Review E</i> , 2014, 90, 043015.	0.8	47
20	Hybrid lattice Boltzmann-TVD simulation of natural convection of nanofluids in a partially heated square cavity using Buongiorno's model. <i>Applied Thermal Engineering</i> , 2019, 146, 318-327.	3.0	43
21	Simulation of electro-osmotic flow in microchannel with lattice Boltzmann method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 364, 183-188.	0.9	42
22	A Lattice Boltzmann Model for Two-Phase Flow in Porous Media. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, B746-B772.	1.3	42
23	A lattice Boltzmann modelling of electrohydrodynamic conduction phenomenon in dielectric liquids. <i>Applied Mathematical Modelling</i> , 2021, 95, 361-378.	2.2	41
24	Regularized lattice Boltzmann simulation of double-diffusive convection of power-law nanofluids in rectangular enclosures. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 381-395.	2.5	39
25	Discrete effect on the halfway bounce-back boundary condition of multiple-relaxation-time lattice Boltzmann model for convection-diffusion equations. <i>Physical Review E</i> , 2016, 93, 043311.	0.8	38
26	Slip boundary condition for lattice Boltzmann modeling of liquid flows. <i>Computers and Fluids</i> , 2018, 161, 60-73.	1.3	37
27	Discrete unified gas kinetic scheme with a force term for incompressible fluid flows. <i>Computers and Mathematics With Applications</i> , 2016, 71, 2608-2629.	1.4	36
28	A phase-field-based lattice Boltzmann modeling of two-phase electro-hydrodynamic flows. <i>Physics of Fluids</i> , 2019, 31, .	1.6	35
29	Regularized lattice Boltzmann model for a class of convection-diffusion equations. <i>Physical Review E</i> , 2015, 92, 043311.	0.8	34
30	Finite-difference lattice Boltzmann model for nonlinear convection-diffusion equations. <i>Applied Mathematics and Computation</i> , 2017, 309, 334-349.	1.4	33
31	A Coupled Lattice Boltzmann Method to Solve Nernst-Planck Model for Simulating Electro-osmotic Flows. <i>Journal of Scientific Computing</i> , 2014, 61, 222-238.	1.1	32
32	Simulation of Power-Law Fluid Flows in Two-Dimensional Square Cavity Using Multi-Relaxation-Time Lattice Boltzmann Method. <i>Communications in Computational Physics</i> , 2014, 15, 265-284.	0.7	32
33	Lattice Boltzmann simulation of lid-driven flow in trapezoidal cavities. <i>Computers and Fluids</i> , 2010, 39, 1977-1989.	1.3	30
34	Generalized modification in the lattice Bhatnagar-Gross-Krook model for incompressible Navier-Stokes equations and convection-diffusion equations. <i>Physical Review E</i> , 2014, 90, 013309.	0.8	30
35	A unified lattice Boltzmann model for some nonlinear partial differential equations. <i>Chaos, Solitons and Fractals</i> , 2008, 36, 874-882.	2.5	29
36	Lattice Boltzmann model for high-order nonlinear partial differential equations. <i>Physical Review E</i> , 2018, 97, 013304.	0.8	29

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37	Effects of temperature-dependent properties on natural convection of nanofluids in a partially heated cubic enclosure. <i>Applied Thermal Engineering</i> , 2018, 128, 204-213.	3.0	29
38	Gas slippage effect on the permeability of circular cylinders in a square array. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 3009-3014.	2.5	26
39	Multi-GPU Based Lattice Boltzmann Method for Hemodynamic Simulation in Patient-Specific Cerebral Aneurysm. <i>Communications in Computational Physics</i> , 2015, 17, 960-974.	0.7	26
40	Lattice Boltzmann model for a class of convection–diffusion equations with variable coefficients. <i>Computers and Mathematics With Applications</i> , 2015, 70, 548-561.	1.4	25
41	Lattice Boltzmann simulation of melting in a cubical cavity with a local heat-flux source. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 497-506.	2.5	25
42	Maxwell-Stefan-theory-based lattice Boltzmann model for diffusion in multicomponent mixtures. <i>Physical Review E</i> , 2019, 99, 023312.	0.8	25
43	Numerical investigation of electro–thermo-convection with a solid–liquid interface via the lattice Boltzmann method. <i>Physics of Fluids</i> , 2021, 33, .	1.6	25
44	Comparative study of natural convection melting inside a cubic cavity using an improved two-relaxation-time lattice Boltzmann model. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118449.	2.5	23
45	Non-Newtonian Effect on Hemodynamic Characteristics of Blood Flow in Stented Cerebral Aneurysm. <i>Communications in Computational Physics</i> , 2013, 13, 916-928.	0.7	19
46	Regularized lattice Boltzmann model for double-diffusive convection in vertical enclosures with heating and salting from below. <i>Applied Thermal Engineering</i> , 2016, 103, 365-376.	3.0	19
47	Coupled lattice Boltzmann method for generalized Keller–Segel chemotaxis model. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1653-1670.	1.4	17
48	Effects of temperature-dependent viscosity on natural convection in a porous cavity with a circular cylinder under local thermal non-equilibrium condition. <i>International Journal of Thermal Sciences</i> , 2021, 159, 106570.	2.6	17
49	General propagation lattice Boltzmann model for nonlinear advection-diffusion equations. <i>Physical Review E</i> , 2018, 97, 043310.	0.8	16
50	A phase-field-based lattice Boltzmann model for multiphase flows involving $N$ immiscible incompressible fluids. <i>Physics of Fluids</i> , 2022, 34, .	1.6	15
51	A novel lattice Boltzmann model for the coupled viscous Burgers’s equations. <i>Applied Mathematics and Computation</i> , 2015, 250, 948-957.	1.4	14
52	Lattice Boltzmann method for filtering and contour detection of the natural images. <i>Computers and Mathematics With Applications</i> , 2014, 68, 257-268.	1.4	13
53	A block triple-relaxation-time lattice Boltzmann model for nonlinear anisotropic convection–diffusion equations. <i>Computers and Mathematics With Applications</i> , 2020, 79, 2550-2573.	1.4	13
54	A lattice Boltzmann model for the conjugate heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2021, 165, 120682.	2.5	12

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55	Lattice Boltzmann study of flow and mixing characteristics of two-dimensional confined impinging streams with uniform and non-uniform inlet jets. <i>Computers and Mathematics With Applications</i> , 2013, 65, 638-647.	1.4	11
56	Lattice Boltzmann Simulation of Magnetic Field Effect on Natural Convection of Power-Law Nanofluids in Rectangular Enclosures. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 1094-1110.	0.7	11
57	Lattice Boltzmann model for time sub-diffusion equation in Caputo sense. <i>Applied Mathematics and Computation</i> , 2019, 358, 80-90.	1.4	11
58	A generalized lattice Boltzmann model for solid-liquid phase change with variable density and thermophysical properties. <i>Applied Mathematics Letters</i> , 2020, 104, 106250.	1.5	11
59	Phase-field-based lattice Boltzmann model for immiscible incompressible N -phase flows. <i>Physical Review E</i> , 2020, 101, 063310.	0.8	11
60	Improved phase-field-based lattice Boltzmann method for thermocapillary flow. <i>Physical Review E</i> , 2022, 105, 015314.	0.8	11
61	An Efficient Lattice Boltzmann Model for Steady Convection-Diffusion Equation. <i>Journal of Scientific Computing</i> , 2014, 61, 308-326.	1.1	10
62	Lattice Boltzmann models for two-dimensional coupled Burgers' equations. <i>Computers and Mathematics With Applications</i> , 2018, 75, 864-875.	1.4	10
63	Discrete unified gas kinetic scheme for nonlinear convection-diffusion equations. <i>Physical Review E</i> , 2020, 101, 023306.	0.8	10
64	Lattice Boltzmann Study of Flow and Temperature Structures of Non-Isothermal Laminar Impinging Streams. <i>Communications in Computational Physics</i> , 2013, 13, 835-850.	0.7	9
65	Dynamic behavior of droplet through a confining orifice: A lattice Boltzmann study. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2640-2658.	1.4	9
66	A generalized lattice Boltzmann model for fluid flow system and its application in two-phase flows. <i>Computers and Mathematics With Applications</i> , 2020, 79, 1759-1780.	1.4	9
67	A modified regularized lattice Boltzmann model for convection-diffusion equation with a source term. <i>Applied Mathematics Letters</i> , 2021, 112, 106766.	1.5	9
68	Mixed bounce-back boundary scheme of the general propagation lattice Boltzmann method for advection-diffusion equations. <i>Physical Review E</i> , 2019, 99, 063316.	0.8	7
69	Multiple-relaxation-time lattice Boltzmann model-based four-level finite-difference scheme for one-dimensional diffusion equations. <i>Physical Review E</i> , 2021, 104, 015312.	0.8	7
70	A lattice Boltzmann based local feedback control approach for spiral wave. <i>Computers and Mathematics With Applications</i> , 2017, 74, 2330-2340.	1.4	6
71	Lattice Boltzmann modeling of the capillary rise of non-Newtonian power-law fluids. <i>International Journal for Numerical Methods in Fluids</i> , 2022, 94, 251-271.	0.9	6
72	A lattice Boltzmann model for the coupled cross-diffusion-fluid system. <i>Applied Mathematics and Computation</i> , 2021, 400, 126105.	1.4	5

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73	Lattice Boltzmann method for n-dimensional nonlinear hyperbolic conservation laws with the source term. <i>Chaos</i> , 2011, 21, 013120.	1.0	4
74	Rectangular lattice Boltzmann model for nonlinear convection–diffusion equations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2311-2319.	1.6	4
75	A finite-difference lattice Boltzmann method with second-order accuracy of time and space for incompressible flow. <i>Computers and Mathematics With Applications</i> , 2020, 80, 3066-3081.	1.4	4
76	A lattice Boltzmann model for the viscous shallow water equations with source terms. <i>Journal of Hydrology</i> , 2021, 598, 126428.	2.3	4
77	Discrete unified gas kinetic scheme for incompressible Navier-Stokes equations. <i>Computers and Mathematics With Applications</i> , 2021, 97, 45-60.	1.4	4
78	A lattice Boltzmann model for the nonlinear thermistor equations. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050043.	0.8	4
79	A two-relaxation-time lattice Boltzmann study on the Soret and Dufour effects of double-diffusive convection over a rough surface. <i>Applied Mathematical Modelling</i> , 2022, 106, 1-29.	2.2	4
80	A lattice Boltzmann study of the asymmetry effect on the hemodynamics in stented fusiform aneurysms. <i>Computers and Mathematics With Applications</i> , 2016, 71, 328-348.	1.4	2
81	Multiple-relaxation-time finite-difference lattice Boltzmann model for the nonlinear convection-diffusion equation. <i>Physical Review E</i> , 2021, 104, 035308.	0.8	2
82	Discrete effects on some boundary schemes of multiple-relaxation-time lattice Boltzmann model for convection–diffusion equations. <i>Computers and Mathematics With Applications</i> , 2020, 80, 531-551.	1.4	2
83	The computation of strain rate tensor in multiple-relaxation-time lattice Boltzmann model. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2888-2902.	1.4	1
84	A recursive finite-difference lattice Boltzmann model for the convection–diffusion equation with a source term. <i>Applied Mathematics Letters</i> , 2022, 132, 108139.	1.5	1