

# Theory of the lattice Boltzmann method: Dispersion, dissipation, invariance, and stability

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Lattice Boltzmann Method for 3-D Flows with Curved Boundary. Journal of Computational Physics, 2000, 161, 680-699.	1.9	278
2	Some recent results on discrete velocity models and ramifications for lattice Boltzmann equation. Computer Physics Communications, 2000, 129, 63-74.	3.0	31
3	Theory of the lattice Boltzmann method: Lattice Boltzmann models for nonideal gases. Physical Review E, 2000, 62, 4982-4996.	0.8	307
4	Momentum transfer of a Boltzmann-lattice fluid with boundaries. Physics of Fluids, 2001, 13, 3452-3459.	1.6	991
5	Lattice Boltzmann Equation on a Two-Dimensional Rectangular Grid. Journal of Computational Physics, 2001, 172, 704-717.	1.9	105
6	A Lattice BGK Scheme with General Propagation. Journal of Scientific Computing, 2001, 16, 569-585.	1.1	52
7	Bulk and shear viscosities in lattice Boltzmann equations. Physical Review E, 2001, 64, 031203.	0.8	183
8	Thirteen-velocity three-dimensional lattice Boltzmann model. Physical Review E, 2001, 63, 066702.	0.8	78
9	Nonhydrodynamic modes and a priori construction of shallow water lattice Boltzmann equations. Physical Review E, 2002, 65, 036309.	0.8	109
10	STOCHASTIC AND HYDRODYNAMIC LATTICE GAS MODELS: MEAN-FIELD KINETIC APPROACHES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 227-259.	0.7	4
11	A lattice kinetic scheme for incompressible viscous flows with heat transfer. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 477-484.	1.6	90
12	Analysis of drag and virtual mass forces in bubbly suspensions using an implicit formulation of the lattice Boltzmann method. Journal of Fluid Mechanics, 2002, 452, 61-96.	1.4	171
13	Multiple "relaxation" time lattice Boltzmann models in three dimensions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 437-451.	1.6	1,494
14	Lattice Boltzmann model for binary mixtures. Physical Review E, 2002, 66, 035301.	0.8	77
15	Taylor-series expansion and least-squares-based lattice Boltzmann method: Two-dimensional formulation and its applications. Physical Review E, 2002, 65, 036708.	0.8	64
16	A free-surface lattice Boltzmann method for modelling the filling of expanding cavities by Bingham fluids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 453-466.	1.6	59
17	Single relaxation time model for entropic lattice Boltzmann methods. Physical Review E, 2002, 65, 056312.	0.8	106
18	Lattice Boltzmann methods for two-phase flow modeling. Annals of Nuclear Energy, 2002, 29, 1421-1453.	0.9	54

#	ARTICLE	IF	CITATIONS
19	A Multi-Speed Compressible Lattice-Boltzmann Model. Journal of Statistical Physics, 2002, 107, 385-400.	0.5	18
20	Evaluation of PowerFLOW for Aerodynamic Applications. Journal of Statistical Physics, 2002, 107, 423-478.	0.5	52
21	Extension of the Lattice-Boltzmann Method for Direct Simulation of Suspended Particles Near Contact. Journal of Statistical Physics, 2003, 112, 685-708.	0.5	106
22	Lattice Boltzmann method for moving boundaries. Journal of Computational Physics, 2003, 184, 406-421.	1.9	452
23	Lattice Boltzmann model for free-surface flow and its application to filling process in casting. Journal of Computational Physics, 2003, 185, 61-99.	1.9	110
24	Incompressible limits of lattice Boltzmann equations using multiple relaxation times. Journal of Computational Physics, 2003, 190, 351-370.	1.9	143
25	The lattice Boltzmann equation method: theoretical interpretation, numerics and implications. International Journal of Multiphase Flow, 2003, 29, 117-169.	1.6	342
26	Viscous flow computations with the method of lattice Boltzmann equation. Progress in Aerospace Sciences, 2003, 39, 329-367.	6.3	746
27	Lattice Boltzmann Methods: High Performance Computing and Engineering Applications. , 2003, , 3-12.		0
28	HYBRID FINITE-DIFFERENCE THERMAL LATTICE BOLTZMANN EQUATION. International Journal of Modern Physics B, 2003, 17, 41-47.	1.0	127
29	Multireflection boundary conditions for lattice Boltzmann models. Physical Review E, 2003, 68, 066614.	0.8	418
30	LARGE-EDDY SIMULATIONS WITH A MULTIPLE-RELAXATION-TIME LBE MODEL. International Journal of Modern Physics B, 2003, 17, 33-39.	1.0	156
31	Three-dimensional lattice-Boltzmann simulations of critical spinodal decomposition in binary immiscible fluids. Physical Review E, 2003, 67, 046304.	0.8	41
32	Theory of the lattice Boltzmann method: Three-dimensional model for linear viscoelastic fluids. Physical Review E, 2003, 67, 021203.	0.8	46
33	Nonexistence of Htheorems for the athermal lattice Boltzmann models with polynomial equilibria. Physical Review E, 2003, 67, 051105.	0.8	28
34	Theory of the lattice Boltzmann method: Acoustic and thermal properties in two and three dimensions. Physical Review E, 2003, 68, 036706.	0.8	357
35	Theory of the lattice Boltzmann method: Two-fluid model for binary mixtures. Physical Review E, 2003, 67, 036302.	0.8	165
36	Minimal entropic kinetic models for hydrodynamics. Europhysics Letters, 2003, 63, 798-804.	0.7	242

#	ARTICLE	IF	CITATIONS
37	Lattice kinetic scheme for the incompressible viscous thermal flows on arbitrary meshes. <i>Physical Review E</i> , 2004, 69, 016703.	0.8	19
38	An evaluation of lattice Boltzmann equation methods for simulating flow through porous media. <i>Developments in Water Science</i> , 2004, , 95-106.	0.1	3
39	A lattice Boltzmann study of non-hydrodynamic effects in shell models of turbulence. <i>Physica D: Nonlinear Phenomena</i> , 2004, 197, 303-312.	1.3	1
40	Investigation of Stability and Hydrodynamics of Different Lattice Boltzmann Models. <i>Journal of Statistical Physics</i> , 2004, 117, 665-680.	0.5	36
41	Simulation of lid-driven cavity flows by parallel lattice Boltzmann method using multi-relaxation-time scheme. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 46, 921-937.	0.9	45
42	Hybrid lattice-Boltzmann finite-difference simulation of convective flows. <i>Computers and Fluids</i> , 2004, 33, 623-641.	1.3	114
43	NEW LATTICE KINETIC SCHEMES FOR INCOMPRESSIBLE VISCOUS FLOWS. <i>International Journal of Modern Physics C</i> , 2004, 15, 1197-1213.	0.8	5
44	Lattice-Boltzmann simulation of two-phase flow in porous media. <i>Water Resources Research</i> , 2004, 40, .	1.7	329
45	Viscous coupling effects for two-phase flow in porous media. <i>Developments in Water Science</i> , 2004, , 247-256.	0.1	4
46	Asymptotic analysis of the lattice Boltzmann equation. <i>Journal of Computational Physics</i> , 2005, 210, 676-704.	1.9	304
47	Equilibrium-type and link-type lattice Boltzmann models for generic advection and anisotropic-dispersion equation. <i>Advances in Water Resources</i> , 2005, 28, 1171-1195.	1.7	367
48	Generic boundary conditions for lattice Boltzmann models and their application to advection and anisotropic dispersion equations. <i>Advances in Water Resources</i> , 2005, 28, 1196-1216.	1.7	149
49	Nonexistence of H Theorem for Some Lattice Boltzmann Models. <i>Journal of Statistical Physics</i> , 2005, 121, 91-103.	0.5	20
50	Viscous coupling based lattice Boltzmann model for binary mixtures. <i>Physics of Fluids</i> , 2005, 17, 067102.	1.6	40
51	Lattice Boltzmann simulations of decaying homogeneous isotropic turbulence. <i>Physical Review E</i> , 2005, 71, 016708.	0.8	87
52	Scientific Grid Computing: The First Generation. <i>Computing in Science and Engineering</i> , 2005, 7, 24-32.	1.2	17
53	Near-field turbulent simulations of rectangular jets using lattice Boltzmann method. <i>Physics of Fluids</i> , 2005, 17, 125106.	1.6	50
54	A LATTICE BOLTZMANN APPROACH FOR IMMISCIBLE FLUIDS WITH VERY DIFFERENT VISCOSITIES. <i>International Journal of Modern Physics C</i> , 2005, 16, 1409-1435.	0.8	1

#	ARTICLE	IF	CITATIONS
55	Computation of Multiphase Flows With Lattice Boltzmann Methods. , 2005, , 403.		4
56	Multiple-relaxation-time lattice-Boltzmann model for multiphase flow. Physical Review E, 2005, 71, 036701.	0.8	226
57	SIMULATIONS OF LIQUID BREAK UP WITH AN AXISYMMETRIC, MULTIPLE RELAXATION TIME, INDEX-FUNCTION LATTICE BOLTZMANN MODEL. International Journal of Modern Physics C, 2005, 16, 1671-1692.	0.8	26
58	Strain hardening in liquid-particle suspensions. Physical Review E, 2005, 72, 061402.	0.8	8
59	Simulations of binary drop collisions with a multiple-relaxation-time lattice-Boltzmann model. Physics of Fluids, 2005, 17, 122105.	1.6	79
60	Lattice Boltzmann method at finite Knudsen numbers. Europhysics Letters, 2005, 69, 549-555.	0.7	127
61	Dynamic regimes of fluids simulated by multiparticle-collision dynamics. Physical Review E, 2005, 72, 016701.	0.8	142
62	Newtonian fluid meets an elastic solid: Coupling lattice Boltzmann and lattice-spring models. Physical Review E, 2005, 71, 056707.	0.8	80
63	Lattice Boltzmann methods for binary mixtures with different molecular weights. Physical Review E, 2005, 71, 046704.	0.8	63
64	Lattice-Boltzmann Models of Xe+ Flow Through Ion Thruster Optics. , 2005, , .		0
65	A Finite-Volume-Based Lattice-Boltzmann Method to Simulate Buoyant Flow. , 2005, , .		0
66	Pore-scale investigation of viscous coupling effects for two-phase flow in porous media. Physical Review E, 2005, 72, 026705.	0.8	177
67	Direct and Large-Eddy Simulation of Decaying and Forced Isotropic Turbulence Using Lattice Boltzmann Method. , 2006, , .		0
68	Lattice Boltzmann Models of Xe, Xe+, Xe++, e- Flow Through Ion Thruster Optics. , 2006, , .		0
69	A Stability Notion for Lattice Boltzmann Equations. SIAM Journal of Scientific Computing, 2006, 27, 2098-2111.	1.3	30
70	Calculation of sound generation and radiation from instationary flows. Computers and Fluids, 2006, 35, 986-993.	1.3	23
71	Simulation of flow past a rotating circular cylinder near a plane wall. International Journal of Computational Fluid Dynamics, 2006, 20, 391-400.	0.5	9
72	Mesoscopic modelling of heterogeneous boundary conditions for microchannel flows. Journal of Fluid Mechanics, 2006, 548, 257.	1.4	68

#	ARTICLE	IF	CITATIONS
73	Simulating high Reynolds number flow in two-dimensional lid-driven cavity by multi-relaxation-time lattice Boltzmann method. Chinese Physics B, 2006, 15, 1855-1863.	1.3	43
74	Lattice Boltzmann versus Molecular Dynamics Simulation of Nanoscale Hydrodynamic Flows. Physical Review Letters, 2006, 96, 224503.	2.9	76
75	On the use of lattice Fokker-Planck models for hydrodynamics. Europhysics Letters, 2006, 75, 399-405.	0.7	3
76	Simulation of two-dimensional decaying turbulence using the "incompressible" extensions of the lattice Boltzmann method. Computers and Fluids, 2006, 35, 280-303.	1.3	13
77	Extension of a hybrid thermal LBE scheme for large-eddy simulations of turbulent convective flows. Computers and Fluids, 2006, 35, 863-871.	1.3	57
78	An evaluation of lattice Boltzmann schemes for porous medium flow simulation. Computers and Fluids, 2006, 35, 898-909.	1.3	617
79	LES of turbulent square jet flow using an MRT lattice Boltzmann model. Computers and Fluids, 2006, 35, 957-965.	1.3	159
80	Lattice Boltzmann simulation of lid-driven flow in deep cavities. Computers and Fluids, 2006, 35, 1116-1125.	1.3	69
81	Optimization and stabilization of LBM free surface flow simulations using adaptive parameterization. Computers and Fluids, 2006, 35, 934-939.	1.3	20
82	Finite Boltzmann schemes. Computers and Fluids, 2006, 35, 849-854.	1.3	23
83	Consistent initial conditions for lattice Boltzmann simulations. Computers and Fluids, 2006, 35, 855-862.	1.3	125
84	Lattice Boltzmann methods for viscous fluid flows and for two-phase fluid flows. Fluid Dynamics Research, 2006, 38, 641-659.	0.6	52
85	Lattice-Boltzmann modelling of natural convection in an inclined square enclosure with partitions attached to its cold wall. International Journal of Heat and Fluid Flow, 2006, 27, 456-465.	1.1	60
86	A momentum exchange-based immersed boundary-lattice Boltzmann method for simulating incompressible viscous flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 354, 173-182.	0.9	334
87	Multi-relaxation-time lattice Boltzmann model for incompressible flow. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 564-572.	0.9	86
88	Simulation of the hydrodynamic drag of aggregated particles. Journal of Colloid and Interface Science, 2006, 301, 155-167.	5.0	58
89	Relaxation approximations and kinetic models of fluid turbulence. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 1-5.	1.2	8
90	Lattice Boltzmann equation simulation of rectangular jet instability and axis-switching. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 151-157.	1.2	10

#	ARTICLE	IF	CITATIONS
91	3D Stochastic Modelling of Heterogeneous Porous Media – Applications to Reservoir Rocks. Transport in Porous Media, 2006, 65, 443-467.	1.2	194
92	Adjoint lattice Boltzmann equation for parameter identification. Computers and Fluids, 2006, 35, 805-813.	1.3	38
93	Benchmark computations based on lattice-Boltzmann, finite element and finite volume methods for laminar flows. Computers and Fluids, 2006, 35, 888-897.	1.3	155
94	An adaptive scheme using hierarchical grids for lattice Boltzmann multi-phase flow simulations. Computers and Fluids, 2006, 35, 820-830.	1.3	159
95	Variably saturated flow described with the anisotropic Lattice Boltzmann methods. Computers and Fluids, 2006, 35, 831-848.	1.3	72
96	Lattice Boltzmann method with regularized pre-collision distribution functions. Mathematics and Computers in Simulation, 2006, 72, 165-168.	2.4	339
97	Application of multi-block approach in the immersed boundary – lattice Boltzmann method for viscous fluid flows. Journal of Computational Physics, 2006, 218, 460-478.	1.9	107
98	Three-dimensional wake interactions for two side-by-side cylinders in a cross flow. International Journal of Computational Fluid Dynamics, 2006, 20, 379-389.	0.5	7
99	Simulation of Flow Past a Square Cylinder by Parallel Lattice Boltzmann Method using Multi-Relaxation-Time Scheme. Journal of Mechanics, 2006, 22, 35-42.	0.7	1
100	Galilean invariant lattice Boltzmann scheme for natural convection on square and rectangular lattices. Physical Review E, 2006, 74, 026705.	0.8	48
101	Rheology of particle suspensions with low to moderate fluid inertia at finite particle inertia. Physics of Fluids, 2006, 18, 083303.	1.6	28
102	Semi-implicit-linearized multiple-relaxation-time formulation of lattice Boltzmann schemes for mixture modeling. Physical Review E, 2006, 73, 056705.	0.8	49
103	One-Step Aeroacoustics Simulation Using Lattice Boltzmann Method. AIAA Journal, 2006, 44, 78-89.	1.5	66
104	Lattice-Boltzmann simulations in reconstructed parametrized porous media. International Journal of Computational Fluid Dynamics, 2006, 20, 369-377.	0.5	49
105	Lattice Boltzmann simulations of the acoustic radiation from waveguides. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 397-408.	0.7	17
106	Characteristics of two-dimensional flow around a rotating circular cylinder near a plane wall. Physics of Fluids, 2007, 19, 063601.	1.6	45
107	SIMULATING TIME HARMONIC FLOWS WITH THE REGULARIZED L-BGK METHOD. International Journal of Modern Physics C, 2007, 18, 661-666.	0.8	9
108	Crown behavior in drop impact on wet walls. Physics of Fluids, 2007, 19, 052103.	1.6	78

#	ARTICLE	IF	CITATIONS
109	Simulating time harmonic flows with the lattice Boltzmann method. <i>Physical Review E</i> , 2007, 75, 036709.	0.8	8
110	Interpolated boundary condition for lattice Boltzmann simulations of flows in narrow gaps. <i>Physical Review E</i> , 2007, 75, 066705.	0.8	130
111	Computational steering on distributed systems: Indoor comfort simulations as a case study of interactive CFD on supercomputers. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2007, 22, 275-291.	0.7	21
112	FROM THE BOLTZMANN TO THE LATTICE-BOLTZMANN EQUATION: BEYOND BGK COLLISION MODELS. <i>International Journal of Modern Physics C</i> , 2007, 18, 556-565.	0.8	16
113	Lattice Boltzmann Method in Saltwater Intrusion Modeling. , 2007, , .		0
114	Lattice Boltzmann Method Simulation of Aeroacoustics and Nonreflecting Boundary Conditions. <i>AIAA Journal</i> , 2007, 45, 1703-1712.	1.5	51
115	Perception of Compliant Environments through a Visual-Haptic Human System Interface. , 2007, , .		2
116	Applying Modern Soft- and Hardware Technologies for Computational Steering Approaches in Computational Fluid Dynamics. , 2007, , .		14
117	PROPERTIES OF THE CASCADED LATTICE BOLTZMANN AUTOMATON. <i>International Journal of Modern Physics C</i> , 2007, 18, 455-462.	0.8	32
118	Alternative method to construct equilibrium distribution functions in lattice-Boltzmann method simulation of inviscid compressible flows at high Mach number. <i>Physical Review E</i> , 2007, 75, 036706.	0.8	102
119	Lattice Boltzmann simulations of two-phase flow with high density ratio in axially symmetric geometry. <i>Physical Review E</i> , 2007, 75, 026701.	0.8	55
120	A generalized periodic boundary condition for lattice Boltzmann method simulation of a pressure driven flow in a periodic geometry. <i>Physics of Fluids</i> , 2007, 19, .	1.6	47
121	Coupled lattice Boltzmann method and discrete element modelling of particle transport in turbulent fluid flows: Computational issues. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 72, 1111-1134.	1.5	195
122	Particle Monte Carlo and lattice-Boltzmann methods for simulations of gasâ€“particle flows. <i>Computers and Fluids</i> , 2007, 36, 407-422.	1.3	44
123	Analysis of radiationâ€“natural convection in a divided enclosure using the lattice Boltzmann method. <i>Computers and Fluids</i> , 2007, 36, 423-434.	1.3	32
124	A pressure-evolution-based multi-relaxation-time high-density-ratio two-phase lattice-Boltzmann model. <i>Computers and Fluids</i> , 2007, 36, 1149-1158.	1.3	37
125	Lattice Boltzmann method applied to the laminar natural convection in an enclosure with a heat-generating cylinder conducting body. <i>International Journal of Thermal Sciences</i> , 2007, 46, 38-47.	2.6	89
126	Lattice Boltzmann and analytical modeling of flow processes in anisotropic and heterogeneous stratified aquifers. <i>Advances in Water Resources</i> , 2007, 30, 2202-2234.	1.7	47



#	ARTICLE	IF	CITATIONS
127	Lattice Boltzmann dynamic simulation of a mechanical heart valve device. <i>Mathematics and Computers in Simulation</i> , 2007, 75, 1-14.	2.4	22
128	Application and validation of the lattice Boltzmann method for modelling flow-related clotting. <i>Journal of Biomechanics</i> , 2007, 40, 3023-3028.	0.9	41
129	A novel immersed boundary velocity correctionâ€“lattice Boltzmann method and its application to simulate flow past a circular cylinder. <i>Journal of Computational Physics</i> , 2007, 226, 1607-1622.	1.9	167
130	Optimization Strategies for the Entropic Lattice Boltzmann Method. <i>Journal of Scientific Computing</i> , 2007, 30, 369-387.	1.1	18
131	Lattice Boltzmann modeling with discontinuous collision components: Hydrodynamic and Advection-Diffusion Equations. <i>Journal of Statistical Physics</i> , 2007, 126, 157-206.	0.5	74
132	Three-dimensional multi-relaxation time (MRT) lattice-Boltzmann models for multiphase flow. <i>Journal of Computational Physics</i> , 2007, 224, 539-559.	1.9	212
133	A lattice Boltzmann front-tracking method for interface dynamics with surface tension in two dimensions. <i>Journal of Computational Physics</i> , 2007, 226, 1367-1384.	1.9	71
134	Lattice Boltzmann simulation of lid-driven swirling flow in confined cylindrical cavity. <i>Computers and Fluids</i> , 2007, 36, 1163-1173.	1.3	33
135	Acceleration of lattice Boltzmann models through state extrapolation: a reactionâ€“diffusion example. <i>Applied Numerical Mathematics</i> , 2008, 58, 1742-1757.	1.2	3
136	Asymptotic analysis of multiple-relaxation-time lattice Boltzmann schemes for mixture modeling. <i>Computers and Mathematics With Applications</i> , 2008, 55, 1392-1407.	1.4	22
137	Simulating fluid flow over sinusoidal surfaces using the lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2008, 55, 1365-1376.	1.4	17
138	Mesoscopic modeling of flow and dispersion phenomena in fractured solids. <i>Computers and Mathematics With Applications</i> , 2008, 55, 1525-1540.	1.4	11
139	A consistent lattice Boltzmann equation with baroclinic coupling for mixtures. <i>Journal of Computational Physics</i> , 2008, 227, 3878-3895.	1.9	36
140	Numerical study of natural convection in a cavity of high aspect ratio by using the lattice Boltzmann method. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 73, 1727-1738.	1.5	5
141	A comparative study of the LBE and GKS methods for 2D near incompressible laminar flows. <i>Journal of Computational Physics</i> , 2008, 227, 4955-4976.	1.9	120
142	Lattice-Boltzmann method for yield-stress liquids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 155, 95-100.	1.0	63
143	Stokes eigenmodes in cubic domain: primitive variable and Lattice Boltzmann formulations. <i>Applied Numerical Mathematics</i> , 2008, 58, 935-945.	1.2	12
144	Bifurcation phenomenon in the wake of a 3-D cylinder. <i>Computers and Fluids</i> , 2008, 37, 724-732.	1.3	4

#	ARTICLE	IF	CITATIONS
145	Convergence of lattice Boltzmann methods for Stokes flows in periodic and bounded domains. Computers and Mathematics With Applications, 2008, 55, 1481-1491.	1.4	16
146	Equivalent partial differential equations of a lattice Boltzmann scheme. Computers and Mathematics With Applications, 2008, 55, 1441-1449.	1.4	78
147	A new scheme for source term in LBGK model for convection-diffusion equation. Computers and Mathematics With Applications, 2008, 55, 1568-1575.	1.4	69
148	Parallel simulation of particle suspensions with the lattice Boltzmann method. Computers and Mathematics With Applications, 2008, 55, 1585-1593.	1.4	40
149	Impact of geometrical properties on permeability and fluid phase distribution in porous media. Advances in Water Resources, 2008, 31, 1188-1204.	1.7	53
150	Prediction of capillary hysteresis in a porous material using lattice-Boltzmann methods and comparison to experimental data and a morphological pore network model. Advances in Water Resources, 2008, 31, 1151-1173.	1.7	164
151	Lattice Boltzmann method with two relaxation times for advection-diffusion equation: Third order analysis and stability analysis. Advances in Water Resources, 2008, 31, 1113-1126.	1.7	82
152	A coupled lattice Boltzmann model for advection and anisotropic dispersion problem in shallow water. Advances in Water Resources, 2008, 31, 1719-1730.	1.7	47
153	Notable physical anomalies manifested in non-Fourier heat conduction under the dual-phase-lag model. International Journal of Heat and Mass Transfer, 2008, 51, 1713-1727.	2.5	68
154	Lattice Boltzmann equation with multiple effective relaxation times for gaseous microscale flow. Physical Review E, 2008, 77, 036707.	0.8	161
155	TeraFLOP computing on a desktop PC with GPUs for 3D CFD. International Journal of Computational Fluid Dynamics, 2008, 22, 443-456.	0.5	231
156	Numerical validation of a consistent axisymmetric lattice Boltzmann model. Physical Review E, 2008, 77, 026703.	0.8	48
157	A Comparative Study of the LBE and GKS Methods for DNS of Decaying Turbulence. , 2008, , .		2
158	Analysis of lattice Boltzmann equation for microscale gas flows: Relaxation times, boundary conditions and the Knudsen layer. International Journal of Computational Fluid Dynamics, 2008, 22, 465-473.	0.5	200
159	Lattice Boltzmann simulation of surface radiation and natural convection in a square cavity with an inner cylinder. Journal Physics D: Applied Physics, 2008, 41, 115502.	1.3	39
160	MULTI-RELAXATION TIME LATTICE BOLTZMANN MODEL FOR MULTIPHASE FLOWS. International Journal of Modern Physics C, 2008, 19, 875-902.	0.8	32
161	Singular forces and pointlike colloids in lattice Boltzmann hydrodynamics. Physical Review E, 2008, 77, 026709.	0.8	49
162	FREE-SURFACE LATTICE BOLTZMANN MODELING IN SINGLE PHASE FLOWS. Series on Quality, Reliability and Engineering Statistics, 2008, , 163-219.	0.2	1

#	ARTICLE	IF	CITATIONS
163	Direct simulation of viscous flow in a wavy pipe using the lattice Boltzmann approach. International Journal of Engineering Systems Modelling and Simulation, 2008, 1, 20.	0.2	2
164	COUPLED DOUBLE-DISTRIBUTION-FUNCTION LATTICE BOLTZMANN MODEL WITH AN ADJUSTABLE BULK VISCOSITY. International Journal of Modern Physics C, 2008, 19, 1919-1938.	0.8	3
165	Modelling microscale flow and colloid transport in saturated porous media. International Journal of Computational Fluid Dynamics, 2008, 22, 493-505.	0.5	11
167	On the application of the lattice Boltzmann method to the investigation of glottal flow. Journal of the Acoustical Society of America, 2008, 124, 523-534.	0.5	7
168	Multiple-relaxation-time model for the correct thermohydrodynamic equations. Physical Review E, 2008, 78, 026705.	0.8	42
169	Multiple-relaxation-time lattice Boltzmann scheme for homogeneous mixture flows with external force. Physical Review E, 2008, 77, 056706.	0.8	28
170	Theory of the lattice Boltzmann equation: Symmetry properties of discrete velocity sets. Physical Review E, 2008, 77, 036709.	0.8	28
171	Lattice-Boltzmann simulation of two-dimensional flow over two vibrating side-by-side circular cylinders. Physical Review E, 2008, 78, 046314.	0.8	17
172	Comment on "Alternative approach to the solution of the dispersion relation for a generalized lattice Boltzmann equation". Physical Review E, 2008, 78, 068701, discussion 068702.	0.8	0
173	Alternative approach to the solution of the dispersion relation for a generalized lattice Boltzmann equation. Physical Review E, 2008, 77, 026702.	0.8	5
174	Characteristic nonreflecting boundary conditions for open boundaries in lattice Boltzmann methods. Physical Review E, 2008, 78, 046707.	0.8	49
175	Analytic solution for a higher-order lattice Boltzmann method: Slip velocity and Knudsen layer. Physical Review E, 2008, 78, 016702.	0.8	25
176	Reply to "Comment on "Alternative approach to the solution of the dispersion relation for a generalized lattice Boltzmann equation". Physical Review E, 2008, 78, .	0.8	0
177	Lattice Boltzmann equation linear stability analysis: Thermal and athermal models. Physical Review E, 2008, 77, 026707.	0.8	78
178	Duality in matrix lattice Boltzmann models. Physical Review E, 2008, 78, 066701.	0.8	33
179	Consistent lattice Boltzmann schemes for the Brinkman model of porous flow and infinite Chapman-Enskog expansion. Physical Review E, 2008, 77, 066704.	0.8	63
180	Slip velocity and Knudsen layer in the lattice Boltzmann method for microscale flows. Physical Review E, 2008, 77, 026704.	0.8	52
181	Generalized local equilibrium in the cascaded lattice Boltzmann method. Physical Review E, 2008, 78, 016701.	0.8	76

#	ARTICLE	IF	CITATIONS
182	Acceleration of steady-state lattice Boltzmann simulations for exterior flows. <i>Physical Review E</i> , 2008, 78, 056701.	0.8	6
183	A comparative study of immersed-boundary and interpolated bounce-back methods in LBE. <i>Progress in Computational Fluid Dynamics</i> , 2008, 8, 156.	0.1	72
184	Preconditioned Navier-Stokes schemes from the generalised lattice Boltzmann equation. <i>Progress in Computational Fluid Dynamics</i> , 2008, 8, 189.	0.1	12
185	On lattice Boltzmann scheme, finite volumes and boundary conditions. <i>Progress in Computational Fluid Dynamics</i> , 2008, 8, 11.	0.1	15
186	Collection Efficiency for Filters with Staggered Parallel Y and Triple Y Fibers: A Numerical Study. <i>Journal of Engineered Fibers and Fabrics</i> , 2009, 4, 155892500900400.	0.5	1
187	Incorporating forcing terms in cascaded lattice Boltzmann approach by method of central moments. <i>Physical Review E</i> , 2009, 80, 036702.	0.8	93
188	Generalized Maxwell state and $\langle H \rangle$ theorem for computing fluid flows using the lattice Boltzmann method. <i>Physical Review E</i> , 2009, 79, 036703.	0.8	26
189	Accelerated algorithm for computing the motion of solid particles suspended in fluid. <i>Physical Review E</i> , 2009, 80, 025701.	0.8	4
190	Lattice Boltzmann model for exterior flows with an annealing preconditioning method. <i>Physical Review E</i> , 2009, 79, 066701.	0.8	3
191	Lattice Boltzmann equation for microscale gas flows of binary mixtures. <i>Physical Review E</i> , 2009, 79, 026702.	0.8	28
192	Lattice Boltzmann model for the one-dimensional nonlinear Dirac equation. <i>Physical Review E</i> , 2009, 79, 066704.	0.8	15
193	COMPARING ENTROPIC AND MULTIPLE RELAXATION TIMES LATTICE BOLTZMANN METHODS FOR BLOOD FLOW SIMULATIONS. <i>International Journal of Modern Physics C</i> , 2009, 20, 721-733.	0.8	2
194	SIMULATION OF AN AXISYMMETRIC RISING BUBBLE BY A MULTIPLE RELAXATION TIME LATTICE BOLTZMANN METHOD. <i>International Journal of Modern Physics B</i> , 2009, 23, 4907-4932.	1.0	15
195	Moment equations for magnetohydrodynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P06003.	0.9	15
196	MULTISCALE MODELING OF MULTIPHASE FLOW WITH COMPLEX INTERACTIONS. <i>Journal of Multiscale Modeling</i> , 2009, 01, 125-156.	1.0	29
197	Multiple-relaxation-time lattice Boltzmann computation of channel flow past a square cylinder with an upstream control bubble partition. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 64, 591-608.	0.9	11
198	Investigation of deformation and breakup of a moving droplet by the method of lattice Boltzmann equations. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 64, 827-849.	0.9	7
199	Fixed-grid fluid-structure interaction in two dimensions based on a partitioned Lattice Boltzmann and $\langle p \rangle$ -FEM approach. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 79, 817-845.	1.5	60

#	ARTICLE	IF	CITATIONS
200	Stable free surface flows with the lattice Boltzmann method on adaptively coarsened grids. <i>Computing and Visualization in Science</i> , 2009, 12, 247-263.	1.2	62
201	Magnetic Field Effects on Axis-Switching and Instabilities in Rectangular Plasma Jets. <i>Flow, Turbulence and Combustion</i> , 2009, 82, 375-390.	1.4	3
202	Pressure boundary condition for the lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2009, 58, 922-929.	1.4	12
203	Dedication to Pierre Lallemand on the occasion of his retirement. <i>Computers and Mathematics With Applications</i> , 2009, 58, 821-822.	1.4	0
204	An Onsager-like relation for the lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2009, 58, 862-866.	1.4	9
205	Lattice Boltzmann modeling of microchannel flow in slip flow regime. <i>Journal of Computational Physics</i> , 2009, 228, 147-157.	1.9	177
206	Lattice Boltzmann simulations of 2D laminar flows past two tandem cylinders. <i>Journal of Computational Physics</i> , 2009, 228, 983-999.	1.9	65
207	Convergence of lattice Boltzmann methods for Navier-Stokes flows in periodic and bounded domains. <i>Numerische Mathematik</i> , 2009, 112, 65-87.	0.9	35
208	Convective heat transfer over two blocks arbitrary located in a 2D plane channel using a hybrid lattice Boltzmann-finite difference method. <i>Heat and Mass Transfer</i> , 2009, 45, 1373-1381.	1.2	10
209	A Lattice-Boltzmann model to simulate the growth of dendritic and eutectic microstructures under the influence of fluid flow. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1197-1205.	0.7	19
210	Dynamic subgrid scale modeling of turbulent flows using lattice-Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 2640-2658.	1.2	77
211	Non-negativity and stability analyses of lattice Boltzmann method for advection-diffusion equation. <i>Journal of Computational Physics</i> , 2009, 228, 236-256.	1.9	60
212	Steady state convergence acceleration of the generalized lattice Boltzmann equation with forcing term through preconditioning. <i>Journal of Computational Physics</i> , 2009, 228, 746-769.	1.9	25
213	Comparison between lattice Boltzmann method and Navier-Stokes high order schemes for computational aeroacoustics. <i>Journal of Computational Physics</i> , 2009, 228, 1056-1070.	1.9	261
214	Lattice Boltzmann method with selective viscosity filter. <i>Journal of Computational Physics</i> , 2009, 228, 4478-4490.	1.9	88
215	Optimal preconditioning of lattice Boltzmann methods. <i>Journal of Computational Physics</i> , 2009, 228, 6479-6495.	1.9	16
216	Sound reflection at the open end of axisymmetric ducts issuing a subsonic mean flow: A numerical study. <i>Journal of Sound and Vibration</i> , 2009, 327, 507-528.	2.1	25
217	Adjoint parameter sensitivity analysis for the hydrodynamic lattice Boltzmann method with applications to design optimization. <i>Computers and Fluids</i> , 2009, 38, 910-923.	1.3	40

#	ARTICLE	IF	CITATIONS
218	Viscosity independent numerical errors for Lattice Boltzmann models: From recurrence equations to collision numbers. Computers and Mathematics With Applications, 2009, 58, 823-840.	1.4	163
219	Second order interpolation of the flow field in the lattice Boltzmann method. Computers and Mathematics With Applications, 2009, 58, 898-902.	1.4	29
220	Towards perfectly matching layers for lattice Boltzmann equation. Computers and Mathematics With Applications, 2009, 58, 903-913.	1.4	11
221	Analysis of open boundary effects in unsteady lattice Boltzmann simulations. Computers and Mathematics With Applications, 2009, 58, 914-921.	1.4	25
222	Embedding sharp interfaces within the lattice Boltzmann method for fluids with arbitrary density ratios. European Physical Journal: Special Topics, 2009, 171, 21-29.	1.2	6
223	A factorized central moment lattice Boltzmann method. European Physical Journal: Special Topics, 2009, 171, 55-61.	1.2	71
224	Entropic, LES and boundary conditions in lattice Boltzmann simulations of turbulence. European Physical Journal: Special Topics, 2009, 171, 167-171.	1.2	10
225	Towards higher order lattice Boltzmann schemes. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P06006.	0.9	44
226	Simulation of laminar flow in a three-dimensional lid-driven cavity by lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2009, 19, 790-815.	1.6	32
227	Generalized lattice Boltzmann equation with forcing term for computation of wall-bounded turbulent flows. Physical Review E, 2009, 79, 026703.	0.8	76
228	Lattice Boltzmann Simulations of Soft Matter Systems. , 2009, , 89-166.		136
229	A Comparative Study of the Lattice Boltzmann and Pseudo-Spectral Methods for Decaying Homogeneous Isotropic Turbulence. , 2009, , .		0
230	Theory of the lattice Boltzmann equation: Lattice Boltzmann model for axisymmetric flows. Physical Review E, 2009, 79, 046708.	0.8	93
231	Large Eddy Simulation of Self-Sustained Flow Instabilities in Cavities Using the Lattice-Boltzmann Method. AIAA Journal, 2009, 47, 229-243.	1.5	7
232	Lattice Boltzmann Simulation of Convective Heat Transfer from Heated Blocks in a Horizontal Channel. Numerical Heat Transfer; Part A: Applications, 2009, 56, 422-443.	1.2	27
233	Computation of turbulent flow and secondary motions in a square duct using a forced generalized lattice Boltzmann equation. Physical Review E, 2009, 79, 026704.	0.8	21
234	INCOMPRESSIBLE MRT LATTICE BOLTZMANN MODEL WITH EIGHT VELOCITIES IN 2D SPACE. International Journal of Modern Physics C, 2009, 20, 1023-1037.	0.8	9
235	Weighted $\mathbb{L}^2$ -Stability of the Lattice Boltzmann Method. SIAM Journal on Numerical Analysis, 2009, 47, 1651-1665.	1.1	31

#	ARTICLE	IF	CITATIONS
236	Simulation of Two Phase Flow in Reservoir Rocks Using a Lattice Boltzmann Method. , 2009, , .		11
237	Simulation of Two-Phase Flow in Reservoir Rocks Using a Lattice Boltzmann Method. SPE Journal, 2010, 15, 917-927.	1.7	107
238	Gas Flow Through Square Arrays of Circular Cylinders with Klinkenberg Effect: a Lattice Boltzmann Study. Communications in Computational Physics, 2010, 8, 1052-1073.	0.7	66
239	Momentum transfer correction for macroscopic-gradient boundary conditions in lattice Boltzmann methods. Journal of Computational Physics, 2010, 229, 2497-2506.	1.9	10
240	On the stability structure for lattice Boltzmann schemes. Computers and Mathematics With Applications, 2010, 59, 2150-2167.	1.4	10
241	Double MRT thermal lattice Boltzmann method for simulating convective flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3499-3507.	0.9	142
242	Implementation of a Lattice Boltzmann kernel using the Compute Unified Device Architecture developed by nVIDIA. Computing and Visualization in Science, 2010, 13, 29-39.	1.2	152
243	Efficient monolithic simulation techniques for the stationary Lattice Boltzmann equation on general meshes. Computing and Visualization in Science, 2010, 13, 129-143.	1.2	3
244	Highly interactive computational steering for coupled 3D flow problems utilizing multiple GPUs. Computing and Visualization in Science, 2010, 13, 299-314.	1.2	12
245	Optimal Stability of Advection-Diffusion Lattice Boltzmann Models with Two Relaxation Times for Positive/Negative Equilibrium. Journal of Statistical Physics, 2010, 139, 1090-1143.	0.5	150
246	LBflow: An extensible lattice Boltzmann framework for the simulation of geophysical flows. Part I: theory and implementation. Computers and Geosciences, 2010, 36, 115-122.	2.0	35
247	Magnetic resonance imaging and 3D simulation studies of biofilm accumulation and cleaning on reverse osmosis membranes. Food and Bioproducts Processing, 2010, 88, 401-408.	1.8	46
248	Three-dimensional modelling and simulation of magnetorheological fluids. International Journal for Numerical Methods in Engineering, 2010, 84, 1273-1302.	1.5	53
249	Validation of 3D simulations of reverse osmosis membrane biofouling. Biotechnology and Bioengineering, 2010, 106, 677-689.	1.7	21
250	A higher-order moment method of the lattice Boltzmann model for the conservation law equation. Applied Mathematical Modelling, 2010, 34, 481-494.	2.2	23
251	Artificial compressibility method revisited: Asymptotic numerical method for incompressible Navier-Stokes equations. Journal of Computational Physics, 2010, 229, 1698-1723.	1.9	65
252	Multiple-relaxation-time lattice Boltzmann model for the convection and anisotropic diffusion equation. Journal of Computational Physics, 2010, 229, 7774-7795.	1.9	278
253	Combined Lattice Boltzmann and phase-field simulations for incompressible fluid flow in porous media. Mathematics and Computers in Simulation, 2010, 80, 1458-1468.	2.4	8



#	ARTICLE	IF	CITATIONS
254	Lattice Boltzmann method for polymer kinetic theory. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 1082-1092.	1.0	11
255	Numerical simulation of capsule deformation in simple shear flow. <i>Computers and Fluids</i> , 2010, 39, 242-250.	1.3	25
256	Comparison of the lattice Boltzmann and pseudo-spectral methods for decaying turbulence: Low-order statistics. <i>Computers and Fluids</i> , 2010, 39, 568-591.	1.3	52
257	A front-tracking lattice Boltzmann method to study flow-induced deformation of three-dimensional capsules. <i>Computers and Fluids</i> , 2010, 39, 499-511.	1.3	19
258	Immersed boundary method and lattice Boltzmann method coupled FSI simulation of mitral leaflet flow. <i>Computers and Fluids</i> , 2010, 39, 871-881.	1.3	60
259	Boundary treatment for the lattice Boltzmann method using adaptive relaxation times. <i>Computers and Fluids</i> , 2010, 39, 900-909.	1.3	14
260	Multi-relaxation-time lattice Boltzmann model for axisymmetric flows. <i>Computers and Fluids</i> , 2010, 39, 1542-1548.	1.3	38
261	Non-Darcy flow in disordered porous media: A lattice Boltzmann study. <i>Computers and Fluids</i> , 2010, 39, 2069-2077.	1.3	87
262	Multirange multi-relaxation time Shan-Chen model with extended equilibrium. <i>Computers and Mathematics With Applications</i> , 2010, 59, 2260-2270.	1.4	31
263	Optimal design for non-Newtonian flows using a topology optimization approach. <i>Computers and Mathematics With Applications</i> , 2010, 59, 2340-2350.	1.4	77
264	On a superconvergent lattice Boltzmann boundary scheme. <i>Computers and Mathematics With Applications</i> , 2010, 59, 2141-2149.	1.4	29
265	A lattice Boltzmann approach for free-surface-flow simulations on non-uniform block-structured grids. <i>Computers and Mathematics With Applications</i> , 2010, 59, 2215-2235.	1.4	59
266	Pressure condition for lattice Boltzmann methods on domains with curved boundaries. <i>Computers and Mathematics With Applications</i> , 2010, 59, 2168-2177.	1.4	5
267	MRT-Lattice Boltzmann simulation of forced convection in a plane channel with an inclined square cylinder. <i>International Journal of Thermal Sciences</i> , 2010, 49, 131-142.	2.6	48
268	Thermal analysis of a 2-D heat recovery system using porous media including lattice Boltzmann simulation of fluid flow. <i>International Journal of Thermal Sciences</i> , 2010, 49, 1031-1041.	2.6	29
269	Incompressible Multi-Relaxation-Time Lattice Boltzmann Model in 3-D Space. <i>Journal of Hydrodynamics</i> , 2010, 22, 782-787.	1.3	15
270	Numerical Simulation of Two-Dimensional Flow over Three Cylinders by Lattice Boltzmann Method. <i>Communications in Theoretical Physics</i> , 2010, 54, 886-892.	1.1	5
271	Quantitative analysis of numerical estimates for the permeability of porous media from lattice-Boltzmann simulations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P11026.	0.9	43



#	ARTICLE	IF	CITATIONS
272	A lattice Boltzmann model for the Burgersâ€™Fisher equation. Chaos, 2010, 20, 023129.	1.0	11
273	Quasiequilibrium lattice Boltzmann models with tunable bulk viscosity for enhancing stability. Physical Review E, 2010, 81, 016702.	0.8	28
274	Improved axisymmetric lattice Boltzmann scheme. Physical Review E, 2010, 81, 056707.	0.8	101
275	Finite-difference-based multiple-relaxation-times lattice Boltzmann model for binary mixtures. Physical Review E, 2010, 81, 016706.	0.8	9
276	The characteristics of induced force for an in-line vibrating cylinder in a cross flow. , 2010, , .		0
277	Electromagnetic waves in lattice Boltzmann magnetohydrodynamics. Europhysics Letters, 2010, 90, 50002.	0.7	15
278	LATTICE BOLTZMANN MODEL FOR SIMULATING VISCOUS COMPRESSIBLE FLOWS. International Journal of Modern Physics C, 2010, 21, 383-407.	0.8	20
279	A Lattice-Boltzmann Approach to Fluid Film Lubrication. Journal of Tribology, 2010, 132, .	1.0	7
280	Computation of heat transfer and fluid flow in an obstructed channel using lattice Boltzmann method. Engineering Computations, 2010, 27, 106-116.	0.7	7
281	Vortex ring with swirl: A numerical study. Physics of Fluids, 2010, 22, .	1.6	26
282	Rectangular lattice Boltzmann method. Physical Review E, 2010, 81, 026705.	0.8	19
283	Change in macroscopic concentration at the interface between different materials: Continuous or discontinuous. Water Resources Research, 2010, 46, .	1.7	20
284	Lattice Boltzmann equation method for multiple immiscible continuum fluids. Physical Review E, 2010, 82, 066701.	0.8	42
285	Thermal fluctuations in the lattice Boltzmann method for nonideal fluids. Physical Review E, 2010, 82, 056714.	0.8	36
286	Using Nanoparticle-Filled Microcapsules for Site-Specific Healing of Damaged Substrates: Creating a â€œRepair-and-Goâ€•System. ACS Nano, 2010, 4, 1115-1123.	7.3	52
287	Direct Numerical Simulation of Fully-Developed Turbulent Channel Flow Using the Lattice Boltzmann Method and Analysis of OpenMP Scalability. Lecture Notes in Computer Science, 2010, , 1-19.	1.0	6
288	Phase-field modeling by the method of lattice Boltzmann equations. Physical Review E, 2010, 81, 036707.	0.8	124
289	A heuristic curved-boundary treatment in lattice Boltzmann method. Europhysics Letters, 2010, 92, 54003.	0.7	4

#	ARTICLE	IF	CITATIONS
290	Boundary Condition Implementation for a Coupled Lattice Boltzmann and Navier-Stokes Methodology. , 2010, , .		1
292	Multiple-relaxation-time lattice Boltzmann approach to compressible flows with flexible specific-heat ratio and Prandtl number. Europhysics Letters, 2010, 90, 54003.	0.7	68
293	Parallel Lattice-Boltzmann Simulation of Transitional Flow on Non-uniform Grids. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2011, , 283-295.	0.2	0
294	Numerics of the lattice Boltzmann method: Effects of collision models on the lattice Boltzmann simulations. Physical Review E, 2011, 83, 056710.	0.8	287
295	Lattice Boltzmann Method for Sprays. , 2011, , 425-439.		1
296	Designing self-propelled microcapsules for pick-up and delivery of microscopic cargo. Soft Matter, 2011, 7, 3168.	1.2	21
297	Lattice Boltzmann Simulations with Locally Refined Meshes. , 2011, , .		4
298	Poreâ€scale determination of parameters for macroscale modeling of evaporation processes in porous media. Water Resources Research, 2011, 47, .	1.7	18
299	Lattice Boltzmann method for one-dimensional radiation transfer. Physical Review E, 2011, 84, 016704.	0.8	39
300	Cross Correlators and Galilean Invariance in Fluctuating Ideal Gas Lattice Boltzmann Simulations. Communications in Computational Physics, 2011, 9, 1315-1322.	0.7	2
301	Natural Convection of Temperature-Sensitive Magnetic Fluids in Porous Media. Advances in Applied Mathematics and Mechanics, 2011, 3, 121-130.	0.7	9
302	Immersed Boundary-Lattice Boltzmann Coupling Scheme for Fluid-Structure Interaction with Flexible Boundary. Communications in Computational Physics, 2011, 9, 1375-1396.	0.7	12
303	Asymptotic Analysis of Lattice Boltzmann Outflow Treatments. Communications in Computational Physics, 2011, 9, 1117-1127.	0.7	16
304	A CLASS OF PHYSICALLY MOTIVATED CLOSURES FOR RADIATION HYDRODYNAMICS. Astrophysical Journal, 2011, 727, 67.	1.6	1
305	Basic Theory and Applications of the Lattice Boltzmann Method. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 2367-2378.	0.2	0
306	Modelling solute transport in shallow water with the lattice Boltzmann method. Computers and Fluids, 2011, 50, 181-188.	1.3	37
307	Passive heat transfer in a turbulent channel flow simulation using large eddy simulation based on the lattice Boltzmann method framework. International Journal of Heat and Fluid Flow, 2011, 32, 1111-1119.	1.1	22
308	Lattice Boltzmann Simulation Of Non-Darcy Flow In Stochastically Generated 2D Porous Media Geometries. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
309	On the Three-Dimensional Central Moment Lattice Boltzmann Method. Journal of Statistical Physics, 2011, 143, 747-794.	0.5	67
310	Lattice Boltzmann method for microfluidics: models and applications. Microfluidics and Nanofluidics, 2011, 10, 1-28.	1.0	336
311	Lattice Boltzmann modeling of microchannel flows in the transition flow regime. Microfluidics and Nanofluidics, 2011, 10, 607-618.	1.0	158
312	A computation of flow and heat transfer past three heated cylinders in a vee shape by a double distribution MRT thermal lattice Boltzmann model. International Journal of Thermal Sciences, 2011, 50, 1532-1542.	2.6	42
313	Optimal low-dispersion low-dissipation LBM schemes for computational aeroacoustics. Journal of Computational Physics, 2011, 230, 5353-5382.	1.9	60
314	Velocity inversion of micro cylindrical Couette flow: A lattice Boltzmann study. Computers and Mathematics With Applications, 2011, 61, 3519-3527.	1.4	55
315	The role of the kinetic parameter in the stability of two-relaxation-time advection-diffusion lattice Boltzmann schemes. Computers and Mathematics With Applications, 2011, 61, 3417-3442.	1.4	52
316	Gas flow simulations in a structured packing by lattice Boltzmann method. Chemical Engineering Science, 2011, 66, 3742-3752.	1.9	9
317	Investigation of deformation and breakup of a falling droplet using a multiple-relaxation-time lattice Boltzmann method. Computers and Fluids, 2011, 40, 156-171.	1.3	47
318	GPU accelerated lattice Boltzmann model for shallow water flow and mass transport. International Journal for Numerical Methods in Engineering, 2011, 86, 316-334.	1.5	32
319	A direct-forcing pressure-based lattice Boltzmann method for solving fluid-particle interaction problems. International Journal for Numerical Methods in Fluids, 2011, 66, 648-670.	0.9	12
320	Shear-improved Smagorinsky modeling of turbulent channel flow using generalized Lattice Boltzmann equation. International Journal for Numerical Methods in Fluids, 2011, 67, 700-712.	0.9	22
321	A lattice Boltzmann equation method for real fluids with the equation of state known in tabular form only in regions of liquid and vapor phases. Computers and Mathematics With Applications, 2011, 61, 3537-3548.	1.4	21
322	Artificial compressibility method and lattice Boltzmann method: Similarities and differences. Computers and Mathematics With Applications, 2011, 61, 3461-3474.	1.4	29
323	A viscosity counteracting approach in the lattice Boltzmann BGK model for low viscosity flow: Preliminary verification. Computers and Mathematics With Applications, 2011, 61, 3690-3702.	1.4	12
324	Quartic parameters for acoustic applications of lattice Boltzmann scheme. Computers and Mathematics With Applications, 2011, 61, 3404-3416.	1.4	30
325	Free surface flow simulations on GPGPUs using the LBM. Computers and Mathematics With Applications, 2011, 61, 3549-3563.	1.4	74
326	Lattice Boltzmann large eddy simulation of subcritical flows around a sphere on non-uniform grids. Computers and Mathematics With Applications, 2011, 61, 3475-3484.	1.4	37

#	ARTICLE	IF	CITATIONS
327	Multi relaxation time lattice Boltzmann simulations of deep lid driven cavity flows at different aspect ratios. Computers and Fluids, 2011, 45, 233-240.	1.3	47
328	Analysis of Lattice-Boltzmann methods for internal flows. Computers and Fluids, 2011, 47, 115-121.	1.3	27
329	Entropy generation of turbulent double-diffusive natural convection in a rectangle cavity. Energy, 2011, 36, 1721-1734.	4.5	47
330	Multiple-relaxation-time lattice Boltzmann model for generalized Newtonian fluid flows. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 332-342.	1.0	97
331	Numerical rheometry of bulk materials using a power law fluid and the lattice Boltzmann method. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 628-638.	1.0	20
332	A solution-adaptive lattice Boltzmann method for two-dimensional incompressible viscous flows. Journal of Computational Physics, 2011, 230, 2246-2269.	1.9	46
333	Multiple-relaxation-time lattice Boltzmann model for compressible fluids. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2129-2139.	0.9	33
334	Prandtl number effects in MRT lattice Boltzmann models for shocked and unshocked compressible fluids. Theoretical and Applied Mechanics Letters, 2011, 1, 052004.	1.3	7
335	Lattice Boltzmann method for multimode wave propagation in viscoelastic media and in elastic solids. Physical Review E, 2011, 83, 066703.	0.8	18
336	Isotropy of three-dimensional quantum lattice Boltzmann schemes. Physical Review E, 2011, 83, 046706.	0.8	23
337	Comment on "Heat transfer and fluid flow in microchannels and nanochannels at high Knudsen number using thermal lattice-Boltzmann method". Physical Review E, 2011, 84, 048301; discussion 048302.	0.8	10
338	Simultaneous incorporation of mass and force terms in the multi-relaxation-time framework for lattice Boltzmann schemes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2219-2227.	1.6	24
339	Lattice Boltzmann Study of Mixed Convection in a Cubic Cavity. Communications in Theoretical Physics, 2011, 56, 144-150.	1.1	9
340	Multiple-Relaxation-Time Lattice Boltzmann Approach to Richtmyer-Meshkov Instability. Communications in Theoretical Physics, 2011, 55, 325-334.	1.1	15
341	Application of the multicomponent lattice Boltzmann simulation method to oil/water dispersions. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 105502.	0.7	4
342	Reactive Rayleigh-Taylor systems: Front propagation and non-stationarity. Europhysics Letters, 2011, 94, 54004.	0.7	35
343	Viscously damped acoustic waves with the lattice Boltzmann method. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2246-2254.	1.6	12
344	Multi-relaxation-time Lattice Boltzmann model for uniform-shear flow over a rotating circular cylinder. Thermal Science, 2011, 15, 859-878.	0.5	6

#	ARTICLE	IF	CITATIONS
345	Discrete model combined with mimetic microfluidic chips to study cell growth in porous scaffold under flow conditions. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 25-26.	0.9	1
346	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
347	Lattice Boltzmann method for relativistic hydrodynamics: Issues on conservation law of particle number and discontinuities. <i>Physical Review D</i> , 2012, 86, .	1.6	7
348	Flow over a traveling wavy foil with a passively flapping flat plate. <i>Physical Review E</i> , 2012, 85, 056316.	0.8	12
349	Accuracy of the viscous stress in the lattice Boltzmann equation with simple boundary conditions. <i>Physical Review E</i> , 2012, 86, 065701.	0.8	30
350	Coupling lattice Boltzmann model for simulation of thermal flows on standard lattices. <i>Physical Review E</i> , 2012, 85, 016710.	0.8	72
351	Comparative Study of the Large Eddy Simulations with the Lattice Boltzmann Method Using the Wall-Adapting Local Eddy-Viscosity and Vreman Subgrid Scale Models. <i>Chinese Physics Letters</i> , 2012, 29, 104706.	1.3	15
352	The Application of the Lattice Boltzmann Method for Permeability Prediction of Porous Media: Investigating the Effects of Viscosity and Grid Resolution. <i>Petroleum Science and Technology</i> , 2012, 30, 1324-1334.	0.7	1
353	Multi-relaxation-time lattice Boltzmann front tracking method for two-phase flow with surface tension. <i>Chinese Physics B</i> , 2012, 21, 124703.	0.7	8
354	An Improved MRT Lattice Boltzmann Model for Calculating Anisotropic Permeability of Compressed and Uncompressed Carbon Cloth Gas Diffusion Layers Based on X-Ray Computed Micro-Tomography. <i>Journal of Fuel Cell Science and Technology</i> , 2012, 9, .	0.8	16
355	Inertial Frame Independent Forcing for Discrete Velocity Boltzmann Equation: Implications for Filtered Turbulence Simulation. <i>Communications in Computational Physics</i> , 2012, 12, 732-766.	0.7	3
356	Truncation Errors, Exact And Heuristic Stability Analysis Of Two-Relaxation-Times Lattice Boltzmann Schemes For Anisotropic Advection-Diffusion Equation. <i>Communications in Computational Physics</i> , 2012, 11, 1439-1502.	0.7	84
357	First- and second-order forcing expansions in a lattice Boltzmann method reproducing isothermal hydrodynamics in artificial compressibility form. <i>Journal of Fluid Mechanics</i> , 2012, 698, 282-303.	1.4	40
358	Immersed boundary lattice Boltzmann model based on multiple relaxation times. <i>Physical Review E</i> , 2012, 85, 016711.	0.8	40
359	A pseudopotential-based multiple-relaxation-time lattice Boltzmann model for multicomponent/multiphase flows. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 983-992.	1.5	40
360	Relative Permeability Calculations from Two-Phase Flow Simulations Directly on Digital Images of Porous Rocks. <i>Transport in Porous Media</i> , 2012, 94, 487-504.	1.2	184
361	Simulation of the flow around an upstream transversely oscillating cylinder and a stationary cylinder in tandem. <i>Physics of Fluids</i> , 2012, 24, .	1.6	13
362	Modeling the making and breaking of bonds as an elastic microcapsule moves over a compliant substrate. <i>Soft Matter</i> , 2012, 8, 77-85.	1.2	10

#	ARTICLE	IF	CITATIONS
363	Lattice Boltzmann Method for Simulation of Solutal Interfacial Convection in Gas-Liquid System. Industrial & Engineering Chemistry Research, 2012, 51, 10955-10967.	1.8	29
364	Critical dynamics of an isothermal compressible nonideal fluid. Physical Review E, 2012, 86, 061119.	0.8	9
365	MRT RECTANGULAR LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2012, 23, 1250040.	0.8	19
366	Numerical study on particle dispersion and deposition in a scaled ventilated chamber using a lattice Boltzmann method. Journal of Aerosol Science, 2012, 47, 1-11.	1.8	9
367	Link-wise artificial compressibility method. Journal of Computational Physics, 2012, 231, 5109-5143.	1.9	53
368	On the use of lattice Boltzmann model for simulating dean flow of non-Newtonian fluids in curved square ducts. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4250-4261.	1.7	2
369	MRT Lattice Boltzmann Schemes for High Reynolds Number Flow in Two-Dimensional Lid-Driven Semi-Circular Cavity. Energy Procedia, 2012, 16, 639-644.	1.8	13
370	Lattice-type-dependent momentum-exchange method for moving boundaries. Physical Review E, 2012, 85, 016704.	0.8	41
371	Assessment of the two relaxation time Lattice Boltzmann scheme to simulate Stokes flow in porous media. Water Resources Research, 2012, 48, .	1.7	87
372	Sensitivity analysis and determination of free relaxation parameters for the weakly-compressible MRT-LBM schemes. Journal of Computational Physics, 2012, 231, 7335-7367.	1.9	28
373	Single- and two-phase flow in microfluidic porous media analogs based on Voronoi tessellation. Lab on A Chip, 2012, 12, 253-261.	3.1	108
374	Lattice Boltzmann modeling and simulation of compressible flows. Frontiers of Physics, 2012, 7, 582-600.	2.4	100
375	Solving generalized lattice Boltzmann model for 3-D cavity flows using CUDA-GPU. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1894-1904.	2.0	7
376	Multicomponent interparticle-potential lattice Boltzmann model for fluids with large viscosity ratios. Physical Review E, 2012, 86, 036701.	0.8	102
377	Simulation of fines migration using a non-Newtonian lattice Boltzmann discrete element model. Engineering Computations, 2012, 29, 366-391.	0.7	12
378	Simulation of fines migration using a non-Newtonian lattice Boltzmann discrete element model. Engineering Computations, 2012, 29, 392-418.	0.7	10
379	Isotropy conditions for lattice Boltzmann schemes. Application to D2Q9. ESAIM: Proceedings and Surveys, 2012, 35, 191-196.	0.4	3
380	A lattice Boltzmann model for diffusion of binary gas mixtures that includes diffusion slip. International Journal for Numerical Methods in Fluids, 2012, 69, 171-189.	0.9	24

#	ARTICLE	IF	CITATIONS
381	Large eddy simulation of turbulent shallow water flows using multi-relaxation-time lattice Boltzmann model. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 1573-1589.	0.9	18
382	Modeling Fluid Flow in the Gas Diffusion Layers in PEMFC Using the Multiple Relaxation-time Lattice Boltzmann Method. <i>Fuel Cells</i> , 2012, 12, 365-381.	1.5	29
383	Construction of lattice-Boltzmann schemes for non-Newtonian and two-phase flows. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1081-1091.	0.9	12
384	Non-body-fitted Cartesian-mesh simulation of highly turbulent flows using multi-relaxation-time lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2012, 63, 1481-1496.	1.4	15
385	A numerical study of fluid flow passes two heated/cooled square cylinders in a tandem arrangement via lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3909-3920.	2.5	9
386	Numerical study of turbulent double-diffusive natural convection in a square cavity by LES-based lattice Boltzmann model. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 4862-4870.	2.5	34
387	The TheLMA project: A thermal lattice Boltzmann solver for the GPU. <i>Computers and Fluids</i> , 2012, 54, 118-126.	1.3	22
388	MRT-lattice Boltzmann computations of natural convection and volumetric radiation in a tilted square enclosure. <i>International Journal of Thermal Sciences</i> , 2012, 54, 125-141.	2.6	27
389	Multiple-relaxation-time lattice Boltzmann simulation of non-Newtonian flows past a rotating circular cylinder. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012, 177-178, 1-14.	1.0	36
390	Numerical prediction of heat transfer by natural convection and radiation in an enclosure filled with an isotropic scattering medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1689-1704.	1.1	46
391	Simulation of liquid water breakthrough in a nanotomography reconstruction of a carbon paper gas-diffusion layer. <i>AIChE Journal</i> , 2012, 58, 646-655.	1.8	9
392	The effect of biofilm permeability on bio-clogging of porous media. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1031-1042.	1.7	99
393	A New Multiple-relaxation-time Lattice Boltzmann Method for Natural Convection. <i>Journal of Scientific Computing</i> , 2013, 56, 122-130.	1.1	20
394	An Investigation of the Lattice Boltzmann Method for Large Eddy Simulation of Complex Turbulent Separated Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013, 135, .	0.8	8
395	GPU-based numerical simulation of multi-phase flow in porous media using multiple-relaxation-time lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2013, 102, 209-219.	1.9	46
396	Multiple-component lattice Boltzmann equation for fluid-filled vesicles in flow. <i>Physical Review E</i> , 2013, 87, 023307.	0.8	13
397	LES-based filter-matrix lattice Boltzmann model for simulating turbulent natural convection in a square cavity. <i>International Journal of Heat and Fluid Flow</i> , 2013, 42, 10-22.	1.1	43
398	Lattice Boltzmann model for combustion and detonation. <i>Frontiers of Physics</i> , 2013, 8, 94-110.	2.4	56



#	ARTICLE	IF	CITATIONS
399	Lattice Boltzmann model for the convection-diffusion equation. <i>Physical Review E</i> , 2013, 87, 063309.	0.8	159
400	Analysis of the absorbing layers for the weakly-compressible lattice Boltzmann methods. <i>Journal of Computational Physics</i> , 2013, 245, 14-42.	1.9	35
401	Multiple-relaxation-time lattice Boltzmann method for immiscible fluids at high Reynolds numbers. <i>Physical Review E</i> , 2013, 87, 023304.	0.8	71
402	Monitoring water transport in sandstone using flow propagators: A quantitative comparison of nuclear magnetic resonance measurement with lattice Boltzmann and pore network simulations. <i>Advances in Water Resources</i> , 2013, 60, 64-74.	1.7	11
403	Multi relaxation time lattice Boltzmann simulations of transition in deep 2D lid driven cavity using GPU. <i>Computers and Fluids</i> , 2013, 80, 381-387.	1.3	38
404	Application of lattice Boltzmann method for incompressible viscous flows. <i>Applied Mathematical Modelling</i> , 2013, 37, 4075-4092.	2.2	32
405	Implicit temperature-correction-based immersed-boundary thermal lattice Boltzmann method for the simulation of natural convection. <i>Physical Review E</i> , 2013, 87, 063304.	0.8	60
406	Filter-matrix lattice Boltzmann model for microchannel gas flows. <i>Physical Review E</i> , 2013, 88, 053311.	0.8	14
407	Stable lattice Boltzmann schemes with a dual entropy approach for monodimensional nonlinear waves. <i>Computers and Mathematics With Applications</i> , 2013, 65, 142-159.	1.4	11
408	Simulations of Three-dimensional Cavity Flows with Multi Relaxation Time Lattice Boltzmann Method and Graphic Processing Units. <i>Procedia Engineering</i> , 2013, 61, 94-99.	1.2	4
409	Multiple anisotropic collisions for advection-diffusion Lattice Boltzmann schemes. <i>Advances in Water Resources</i> , 2013, 51, 381-404.	1.7	48
410	Chapman-Enskog analysis for finite-volume formulation of lattice Boltzmann equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 2701-2712.	1.2	17
411	Computation of coupled double-diffusive convection-radiation including lattice Boltzmann simulation of fluid flow. <i>Journal of Fluid Mechanics</i> , 2013, 728, 146-162.	1.4	2
412	MRT-LBM-based numerical simulation of seepage flow through fractal fracture networks. <i>Science China Technological Sciences</i> , 2013, 56, 3115-3122.	2.0	23
413	Lattice Boltzmann modeling of multiphase flows at large density ratio with an improved pseudopotential model. <i>Physical Review E</i> , 2013, 87, 053301.	0.8	376
414	Lattice Boltzmann outflow treatments: Convective conditions and others. <i>Computers and Mathematics With Applications</i> , 2013, 65, 160-171.	1.4	23
415	Interfacial roughening in nonideal fluids: Dynamic scaling in the weak- and strong-damping regime. <i>Physical Review E</i> , 2013, 87, 022407.	0.8	5
416	Study of double-diffusive natural convection and radiation in an inclined cavity using lattice Boltzmann method. <i>International Journal of Thermal Sciences</i> , 2013, 63, 65-86.	2.6	40



#	ARTICLE	IF	CITATIONS
417	Numerical Simulation of 3D Liquid-Gas Distribution in Porous Media by a Two-Phase TRT Lattice Boltzmann Method. <i>Transport in Porous Media</i> , 2013, 96, 271-294.	1.2	36
418	Multiple-relaxation-time lattice Boltzmann model for the axisymmetric convection diffusion equation. <i>International Journal of Heat and Mass Transfer</i> , 2013, 67, 338-351.	2.5	59
419	A lattice-Boltzmann method with hierarchically refined meshes. <i>Computers and Fluids</i> , 2013, 75, 127-139.	1.3	71
420	A strain-rate model for a lattice Boltzmann BCK model in fluid-structure interactions. <i>Computers and Fluids</i> , 2013, 88, 126-135.	1.3	4
421	Estimation of a semi-physical GLBE model using dual EnKF learning algorithm coupled with a sensor network design strategy: Application to air field monitoring. <i>Information Fusion</i> , 2013, 14, 335-348.	11.7	2
422	Kinetic numerical methods for solving the semiclassical Boltzmann-BCK equation. <i>Computers and Fluids</i> , 2013, 85, 153-165.	1.3	3
423	Lattice Boltzmann methods for complex micro-flows: applicability and limitations for practical applications. <i>Fluid Dynamics Research</i> , 2013, 45, 034501.	0.6	45
424	Computation of transitional flow past a circular cylinder using multiblock lattice Boltzmann method with a dynamic subgrid scale model. <i>Fluid Dynamics Research</i> , 2013, 45, 055510.	0.6	6
425	Simulations of flow instability in three dimensional deep cavities with multi relaxation time lattice Boltzmann method on graphic processing units. <i>Computers and Fluids</i> , 2013, 88, 866-871.	1.3	20
426	Lattice Boltzmann simulations of a time-dependent natural convection problem. <i>Computers and Mathematics With Applications</i> , 2013, 66, 1360-1371.	1.4	32
427	MRT-LBM Simulation of Four-lid-driven Cavity Flow Bifurcation. <i>Procedia Engineering</i> , 2013, 61, 100-107.	1.2	3
428	Entropic Lattice Boltzmann Method based high Reynolds number flow simulation using CUDA on GPU. <i>Computers and Fluids</i> , 2013, 88, 241-249.	1.3	22
429	An interpretation and derivation of the lattice Boltzmann method using Strang splitting. <i>Computers and Mathematics With Applications</i> , 2013, 65, 129-141.	1.4	127
430	On enhanced non-linear free surface flow simulations with a hybrid LBM-VOF model. <i>Computers and Mathematics With Applications</i> , 2013, 65, 211-229.	1.4	39
431	Asymmetric lattice Boltzmann model for shallow water flows. <i>Computers and Fluids</i> , 2013, 88, 225-231.	1.3	16
432	A lattice Boltzmann method for immiscible two-phase Stokes flow with a local collision operator. <i>Computers and Mathematics With Applications</i> , 2013, 65, 864-881.	1.4	23
433	Lattice Boltzmann simulations of thermal convective flows in two dimensions. <i>Computers and Mathematics With Applications</i> , 2013, 65, 262-286.	1.4	176
434	From creeping to inertial flow in porous media: a lattice Boltzmann finite element study. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P02038.	0.9	26

#	ARTICLE	IF	CITATIONS
435	Numerical Investigation of Laminar Mixed Convection in a Cubic Cavity by MRT-LBM: Effects of the Sliding Direction. Numerical Heat Transfer; Part A: Applications, 2013, 63, 285-304.	1.2	12
436	DL_MESO: highly scalable mesoscale simulations. Molecular Simulation, 2013, 39, 796-821.	0.9	123
437	Boundary conditions for thermal lattice Boltzmann equation method. Journal of Computational Physics, 2013, 237, 366-395.	1.9	164
438	Sharp-interface immersed boundary lattice Boltzmann method with reduced spurious-pressure oscillations for moving boundaries. Physical Review E, 2013, 87, 053306.	0.8	29
440	An efficient lattice Boltzmann model for indoor airflow and particle transport. Journal of Aerosol Science, 2013, 63, 10-24.	1.8	9
441	Multi-GPU implementation of the lattice Boltzmann method. Computers and Mathematics With Applications, 2013, 65, 252-261.	1.4	97
442	Optimal relaxation collisions for lattice Boltzmann methods. Computers and Mathematics With Applications, 2013, 65, 172-185.	1.4	25
443	Some results on energy-conserving lattice Boltzmann models. Computers and Mathematics With Applications, 2013, 65, 831-844.	1.4	7
444	Linear lattice Boltzmann schemes for acoustic: Parameter choices and isotropy properties. Computers and Mathematics With Applications, 2013, 65, 845-863.	1.4	6
445	Direct Numerical Simulation of Bubble Dynamics Using Phase-Field Model and Lattice Boltzmann Method. Industrial & Engineering Chemistry Research, 2013, 52, 11391-11403.	1.8	38
446	Investigation of Double Diffusive Natural Convection in Presence of Gray Gas Radiation Within a Square Cavity Using Multiple Relaxation Time Lattice Boltzmann Method. Journal of Heat Transfer, 2013, 135, .	1.2	8
447	Quantitative determination of molecular propagator distributions for solute transport in homogeneous and heterogeneous porous media using lattice Boltzmann simulations. Water Resources Research, 2013, 49, 8531-8538.	1.7	32
448	Lateral Migration and Nonuniform Rotation of Biconcave Particle Suspended in Poiseuille Flow. Chinese Physics Letters, 2013, 30, 064701.	1.3	9
449	Porosity and Permeability Change under Stress and Correlation to Rock Texture. , 2013, , .		1
450	Fluctuating ideal-gas lattice Boltzmann method with fluctuation dissipation theorem for nonvanishing velocities. Physical Review E, 2013, 87, 063310.	0.8	15
451	Model-Free Stochastic Localization of CBRN Releases. IEEE Transactions on Signal Processing, 2013, 61, 4246-4258.	3.2	2
452	MODELING MOVING BOUNDARY IN SHALLOW WATER BY LBM. International Journal of Modern Physics C, 2013, 24, 1250094.	0.8	4
453	Hybrid multiple-relaxation-time lattice-Boltzmann finite-difference method for axisymmetric multiphase flows. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 055501.	0.7	30

#	ARTICLE	IF	CITATIONS
454	Simulation of turbulent duct flow by employing shear-improved Smagorinsky model accompanied by forced generalized lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 24, 86-102.	1.6	2
455	Derivation of Hydrodynamics for Multi-Relaxation Time Lattice Boltzmann using the Moment Approach. Communications in Computational Physics, 2013, 13, 614-628.	0.7	12
456	On Triangular Lattice Boltzmann Schemes for Scalar Problems. Communications in Computational Physics, 2013, 13, 649-670.	0.7	2
457	Numerical Simulation of Flows about a Stationary and a Free-Falling Cylinder Using Immersed Boundary-Finite Difference Lattice Boltzmann Method. Journal of Computational Multiphase Flows, 2013, 5, 27-41.	0.8	3
458	The use of MRT-lattice Boltzmann method for the prediction of fluid solid flow. IOP Conference Series: Materials Science and Engineering, 2013, 50, 012037.	0.3	1
459	Evaluation of Three Lattice Boltzmann Models for Particulate Flows. Communications in Computational Physics, 2013, 13, 1151-1172.	0.7	28
460	Simulation of strong nonlinear waves with vectorial lattice Boltzmann schemes. International Journal of Modern Physics C, 2014, 25, 1441014.	0.8	13
461	Regularized lattice BGK versus highly accurate spectral methods for cavity flow simulations. International Journal of Modern Physics C, 2014, 25, 1441003.	0.8	16
462	Modelling of dendritic growth during alloy solidification under natural convection. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 034006.	0.8	22
463	Numerical study on the fluid flow pass a square cylinder: The temperature-viscosity dependence. International Journal of Modern Physics C, 2014, 25, 1350101.	0.8	0
464	Lattice Boltzmann Formulation for Linear Viscoelastic Fluids Using an Abstract Second Stress. SIAM Journal of Scientific Computing, 2014, 36, A2507-A2532.	1.3	13
465	Simulation of two-phase fluid mixture flow in rectangular two-inlet cavity using lattice Boltzmann method. International Journal of Modern Physics C, 2014, 25, 1450004.	0.8	8
466	Numerical Simulation of High Reynolds Number Flow Structure in a Lid-Driven Cavity Using MRT-LES. Applied Mechanics and Materials, 0, 554, 665-669.	0.2	1
467	Numerical Analysis on the Effects of Mixed Convection of Particles Removal Flow over Heated Cavity Using Multi-Relaxation Time Thermal Lattice Boltzmann Method. Applied Mechanics and Materials, 0, 695, 487-490.	0.2	0
468	Heat Transfer Evaluation on Curved Boundaries in Thermal Lattice Boltzmann Equation Method. Journal of Heat Transfer, 2014, 136, .	1.2	29
469	Effects of Numerical Simulation Geometry on Fluid Solid Particles Interaction Using Multi Relaxation Time Lattice Boltzmann Method. Applied Mechanics and Materials, 0, 695, 491-494.	0.2	0
470	Deformation and breakup of a liquid droplet past a solid circular cylinder: A lattice Boltzmann study. Physical Review E, 2014, 90, 043015.	0.8	47
471	Phase-field-based lattice Boltzmann model for axisymmetric multiphase flows. Physical Review E, 2014, 90, 063311.	0.8	51

#	ARTICLE	IF	CITATIONS
472	Multiblock approach for the passive scalar thermal lattice Boltzmann method. <i>Physical Review E</i> , 2014, 89, 043303.	0.8	18
473	A numerical study of a vortex ring impacting a permeable wall. <i>Physics of Fluids</i> , 2014, 26, .	1.6	30
474	Regularized lattice Bhatnagar-Gross-Krook model for two- and three-dimensional cavity flow simulations. <i>Physical Review E</i> , 2014, 89, 053317.	0.8	72
475	Lattice Boltzmann method for mixtures at variable Schmidt number. <i>Journal of Chemical Physics</i> , 2014, 141, 014102.	1.2	5
476	Asymptotic Analysis of the Lattice Boltzmann Method for Generalized Newtonian Fluid Flows. <i>Multiscale Modeling and Simulation</i> , 2014, 12, 1028-1045.	0.6	12
477	Calculation of drag and torque coefficients by time-independent lattice-Boltzmann method. <i>Physical Review E</i> , 2014, 90, 033313.	0.8	3
478	Enhancement of the stability of lattice Boltzmann methods by dissipation control. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 414, 285-299.	1.2	25
479	Simulation of Flow over a Cavity Using Multi-Relaxation Time Thermal Lattice Boltzmann Method. <i>Applied Mechanics and Materials</i> , 2014, 554, 296-300.	0.2	1
480	Interpolation methods and the accuracy of lattice-Boltzmann mesh refinement. <i>Journal of Computational Physics</i> , 2014, 259, 461-487.	1.9	32
481	Comparison of boundary slip for two variants of immersed boundary method in lattice Boltzmann framework. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 404, 200-216.	1.2	7
482	Multiphase cascaded lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2014, 67, 350-362.	1.4	71
483	Direct numerical simulation of circular-cap bubbles in low viscous liquids using counter diffusion lattice Boltzmann method. <i>Nuclear Engineering and Design</i> , 2014, 266, 17-33.	0.8	3
484	MRT lattice Boltzmann method for 2D flows in curvilinear coordinates. <i>Computers and Fluids</i> , 2014, 96, 288-301.	1.3	18
485	Hydrodynamics in Porous Media: A Finite Volume Lattice Boltzmann Study. <i>Journal of Scientific Computing</i> , 2014, 59, 80-103.	1.1	29
486	On rotational invariance of lattice Boltzmann schemes. <i>Computers and Mathematics With Applications</i> , 2014, 67, 239-255.	1.4	16
487	Finite-difference lattice Boltzmann method with a block-structured adaptive-mesh-refinement technique. <i>Physical Review E</i> , 2014, 89, 033310.	0.8	74
488	Transmissionâ€œReflection Coefficient in the Lattice Boltzmann Method. <i>Journal of Statistical Physics</i> , 2014, 155, 277-299.	0.5	19
489	Simulations of Bingham plastic flows with the multiple-relaxation-time lattice Boltzmann model. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 532-540.	2.0	24

#	ARTICLE	IF	CITATIONS
490	Two-dimensional MRT LB model for compressible and incompressible flows. <i>Frontiers of Physics</i> , 2014, 9, 246-254.	2.4	12
491	Taxila LBM: a parallel, modular lattice Boltzmann framework for simulating pore-scale flow in porous media. <i>Computational Geosciences</i> , 2014, 18, 17-27.	1.2	29
492	A multiple-relaxation-time lattice Boltzmann model for convection heat transfer in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 761-775.	2.5	107
493	Coupled lattice Boltzmann method for simulating electrokinetic flows: A localized scheme for the Nernst-Planck model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 3570-3590.	1.7	44
494	A novel heterogeneous algorithm to simulate multiphase flow in porous media on multicore CPU-GPU systems. <i>Computer Physics Communications</i> , 2014, 185, 1865-1874.	3.0	63
495	A comparative study of lattice Boltzmann methods using bounce-back schemes and immersed boundary ones for flow acoustic problems. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 74, 439-467.	0.9	47
496	Development and validation of a new LBM-MRT hybrid model with enthalpy formulation for melting with natural convection. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 374-381.	0.9	20
497	A mass-conserving axisymmetric multiphase lattice Boltzmann method and its application in simulation of bubble rising. <i>Journal of Computational Physics</i> , 2014, 269, 386-402.	1.9	51
498	An immersed boundary method for fluids using the XFEM and the hydrodynamic Boltzmann transport equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 273, 37-55.	3.4	3
499	Numerical modeling of carrier gas flow in atomic layer deposition vacuum reactor: A comparative study of lattice Boltzmann models. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, .	0.9	27
500	Multiple-relaxation-time lattice Boltzmann method for study of two-lid-driven cavity flow solution multiplicity. <i>Theoretical and Computational Fluid Dynamics</i> , 2014, 28, 215-231.	0.9	20
501	Implicit-correction-based immersed boundary lattice Boltzmann method with two relaxation times. <i>Physical Review E</i> , 2014, 89, 023307.	0.8	42
502	Accuracy and grid convergence of wall shear stress measured by lattice Boltzmann method. <i>International Journal of Modern Physics C</i> , 2014, 25, 1450057.	0.8	4
503	Phase-field-based multiple-relaxation-time lattice Boltzmann model for incompressible multiphase flows. <i>Physical Review E</i> , 2014, 89, 053320.	0.8	166
504	Lattice Boltzmann method for the convection-diffusion equation in curvilinear coordinate systems. <i>Journal of Computational Physics</i> , 2014, 257, 884-900.	1.9	28
505	Lattice Boltzmann phase-field modeling of thermocapillary flows in a confined microchannel. <i>Journal of Computational Physics</i> , 2014, 256, 334-356.	1.9	89
506	Numerical investigation on the head-on collision between unequal-sized droplets with multiple-relaxation-time lattice Boltzmann model. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 629-640.	2.5	19
507	Binary droplet collision simulations by a multiphase cascaded lattice Boltzmann method. <i>Physics of Fluids</i> , 2014, 26, .	1.6	70

#	ARTICLE	IF	CITATIONS
508	A comparative study of lattice Boltzmann models for incompressible flow. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1446-1466.	1.4	11
509	Discrete adjoint sensitivity analysis for fluid flow topology optimization based on the generalized lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1374-1392.	1.4	29
510	An alternative lattice Boltzmann model for three-dimensional incompressible flow. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1107-1122.	1.4	2
511	An immersed boundary-thermal lattice Boltzmann method for solid-liquid phase change. <i>Journal of Computational Physics</i> , 2014, 277, 305-319.	1.9	79
512	A multi-component lattice Boltzmann method in consistent with Stefan-Maxwell equations: Derivation, validation and application in porous medium. <i>Computers and Fluids</i> , 2014, 105, 155-165.	1.3	21
513	Joint numerical microscale simulations of multiphase flow and NMR relaxation behavior in porous media using lattice Boltzmann methods. <i>Water Resources Research</i> , 2014, 50, 7378-7393.	1.7	5
514	Unsteady immiscible multiphase flow validation of a multiple-relaxation-time lattice Boltzmann method. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 105501.	0.7	35
515	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
516	Turbulence Simulation by Adaptive Multi-Relaxation Lattice Boltzmann Modeling. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014, 20, 289-302.	2.9	9
517	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
518	Truncation errors and the rotational invariance of three-dimensional lattice models in the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2014, 269, 259-279.	1.9	47
519	Drafting, kissing and tumbling process of two particles with different sizes. <i>Computers and Fluids</i> , 2014, 96, 20-34.	1.3	75
520	Hybrid lattice Boltzmann finite difference simulation of mixed convection flows in a lid-driven square cavity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2429-2435.	0.9	27
521	Lattice-Boltzmann simulations of the thermally driven 2D square cavity at high Rayleigh numbers. <i>Journal of Computational Physics</i> , 2014, 275, 257-272.	1.9	87
522	A Stable Lattice Boltzmann Method for Steady Backward-Facing Step Flow. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 6375-6384.	1.1	2
523	Free-energy-based lattice Boltzmann model for the simulation of multiphase flows with density contrast. <i>Physical Review E</i> , 2014, 89, 033309.	0.8	69
524	Lattice-Boltzmann method for the simulation of multiphase mass transfer and reaction of dilute species. <i>Physical Review E</i> , 2014, 89, 053308.	0.8	33
525	Galilean invariant fluid-solid interfacial dynamics in lattice Boltzmann simulations. <i>Journal of Computational Physics</i> , 2014, 266, 161-170.	1.9	144

#	ARTICLE	IF	CITATIONS
526	Lattice Boltzmann algorithms without cubic defects in Galilean invariance on standard lattices. <i>Journal of Computational Physics</i> , 2014, 259, 270-283.	1.9	77
527	Simulation of heat transfer enhancement by longitudinal vortex generators in dimple heat exchangers. <i>Energy</i> , 2014, 74, 27-36.	4.5	38
528	Thermodynamic consistency of the pseudopotential lattice Boltzmann model for simulating liquid-vapor flows. <i>Applied Thermal Engineering</i> , 2014, 72, 56-61.	3.0	45
529	Study of immiscible displacements in porous media using a color-gradient-based multiphase lattice Boltzmann method. <i>Computers and Fluids</i> , 2014, 93, 164-172.	1.3	107
530	Elucidating the Role of Interfacial Tension for Hydrological Properties of Two-Phase Flow in Natural Sandstone by an Improved Lattice Boltzmann Method. <i>Transport in Porous Media</i> , 2014, 104, 205-229.	1.2	51
531	Development of LBGK and incompressible LBGK-based lattice Boltzmann flux solvers for simulation of incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 75, 344-364.	0.9	39
532	Lattice Boltzmann modeling of shallow water flows over discontinuous beds. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 75, 608-619.	0.9	14
533	A modified multiple-relaxation-time lattice Boltzmann model for convection-diffusion equation. <i>Journal of Computational Physics</i> , 2014, 274, 50-63.	1.9	87
534	Numerical Calculation of Wind Loads over Solar Collectors. <i>Energy Procedia</i> , 2014, 49, 163-173.	1.8	27
535	Numerical simulation of a rising CO2 droplet in the initial accelerating stage by a multiphase lattice Boltzmann method. <i>Applied Ocean Research</i> , 2014, 45, 1-9.	1.8	11
536	Development of Lattice Boltzmann Flux Solver for Simulation of Incompressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2014, 6, 436-460.	0.7	120
537	Shape Recovery of Elastic Capsules from Shear Flow Induced Deformation. <i>Communications in Computational Physics</i> , 2014, 16, 56-74.	0.7	4
538	Wavelength selection and symmetry breaking in orbital wave ripples. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2239-2257.	1.0	27
539	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
540	Multiphase Flow and Reactive Transport at the Pore Scale Using Lattice-Boltzmann Computer Simulations. , 2014, , .		1
541	Enabling the environmentally clean air transportation of the future: a vision of computational fluid dynamics in 2030. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130317.	1.6	13
542	Lattice Boltzmann method for groundwater flow in non-orthogonal structured lattices. <i>Computers and Mathematics With Applications</i> , 2015, 70, 2601-2615.	1.4	11
543	On Initial Conditions for the Lattice Boltzmann Method. <i>Communications in Computational Physics</i> , 2015, 18, 450-468.	0.7	4



#	ARTICLE	IF	CITATIONS
544	Numerical investigation of the effects of porosity and tortuosity on soil permeability using coupled three-dimensional discrete-element method and lattice Boltzmann method. <i>Physical Review E</i> , 2015, 91, 053301.	0.8	38
545	Lattice Boltzmann modeling of contact angle and its hysteresis in two-phase flow with large viscosity difference. <i>Physical Review E</i> , 2015, 92, 033306.	0.8	80
546	Regularized lattice Boltzmann model for a class of convection-diffusion equations. <i>Physical Review E</i> , 2015, 92, 043311.	0.8	34
547	Three-Dimensional Simulation of Balloon Dynamics by the Immersed Boundary Method Coupled to the Multiple-Relaxation-Time Lattice Boltzmann Method. <i>Communications in Computational Physics</i> , 2015, 17, 1271-1300.	0.7	9
548	Multiple-relaxation-time lattice Boltzmann model for incompressible miscible flow with large viscosity ratio and high Péclet number. <i>Physical Review E</i> , 2015, 92, 043305.	0.8	47
549	Entropic multirelaxation lattice Boltzmann models for turbulent flows. <i>Physical Review E</i> , 2015, 92, 043309.	0.8	72
550	Lattice Boltzmann Stokesian dynamics. <i>Physical Review E</i> , 2015, 92, 053303.	0.8	1
551	An Innovative Technique for Estimation of Permeability of Shale Gas Reservoirs. , 2015, , .		3
552	Simulation of Shale Gas Transport in 3D Complex Nanoscale-Pore Structures Using the Lattice Boltzmann Method. , 2015, , .		8
553	Simulation of Cement Slurry Flow to Assess the Potential for Voids and Channels in Wellbore Cementing Processes. , 2015, , .		2
554	Comparison of Simulations of Convective Flows. <i>Communications in Computational Physics</i> , 2015, 17, 1169-1184.	0.7	6
555	Taylor expansion method for analyzing bounce-back boundary conditions for lattice Boltzmann method. <i>ESAIM Proceedings and Surveys</i> , 2015, 52, 25-46.	0.5	5
556	From Lattice Boltzmann Method to Lattice Boltzmann Flux Solver. <i>Entropy</i> , 2015, 17, 7713-7735.	1.1	41
557	Hydrodynamic Force Evaluation by Momentum Exchange Method in Lattice Boltzmann Simulations. <i>Entropy</i> , 2015, 17, 8240-8266.	1.1	21
558	A multiple-relaxation-time lattice Boltzmann method for high-speed compressible flows. <i>Chinese Physics B</i> , 2015, 24, 050501.	0.7	5
559	Prediction of the permeability of proppant packs under load. <i>International Journal of Modern Physics C</i> , 2015, 26, 1550117.	0.8	2
560	A Review on the development of lattice Boltzmann computation of macro fluid flows and heat transfer. <i>AEJ - Alexandria Engineering Journal</i> , 2015, 54, 955-971.	3.4	126
561	Full Eulerian lattice Boltzmann model for conjugate heat transfer. <i>Physical Review E</i> , 2015, 92, 063305.	0.8	42



#	ARTICLE	IF	CITATIONS
562	Thermodynamic-consistent lattice Boltzmann model for nonideal fluids. Europhysics Letters, 2015, 112, 44002.	0.7	17
563	Coupled Lattice Boltzmann and Meshless Simulation of Natural Convection in the Presence of Volumetric Radiation. Journal of Heat Transfer, 2015, 137, .	1.2	8
564	A modified lattice Boltzmann model for shallow water flows over complex topography. International Journal for Numerical Methods in Fluids, 2015, 77, 441-458.	0.9	13
565	A Hybrid Lattice Boltzmann Methodâ€“Finite Difference Method Model for Sediment Transport and Riverbed Deformation. River Research and Applications, 2015, 31, 447-456.	0.7	4
566	Multiple-relaxation-time lattice Boltzmann modeling of incompressible flows in porous media. Physica A: Statistical Mechanics and Its Applications, 2015, 429, 215-230.	1.2	13
567	Scalable multi-relaxation-time lattice Boltzmann simulations on multi-GPU cluster. Computers and Fluids, 2015, 110, 1-8.	1.3	36
568	Towards aerualic simulations at urban scale using the lattice Boltzmann method. Environmental Fluid Mechanics, 2015, 15, 753-770.	0.7	27
569	A D3Q27 multiple-relaxation-time lattice Boltzmann method for turbulent flows. Computers and Mathematics With Applications, 2015, 69, 518-529.	1.4	143
570	Modeling the macroscopic behavior of saturated deformable porous media using direct numerical simulations. International Journal of Multiphase Flow, 2015, 71, 74-82.	1.6	5
571	A hybrid phase field multiple relaxation time lattice Boltzmann method for the incompressible multiphase flow with large density contrast. International Journal for Numerical Methods in Fluids, 2015, 77, 526-543.	0.9	48
572	Numerical simulation of liquefaction in porous media using nonlinear fluid flow law. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 229-250.	1.7	6
573	Detection and localization of harmful atmospheric releases via support vector machines. Environmental Systems Research, 2015, 4, .	1.5	2
574	Multiple-relaxation-time lattice Boltzmann model for binary mixtures of nonideal fluids based on the Enskog kinetic theory. Science Bulletin, 2015, 60, 634-647.	4.3	8
575	Lattice Boltzmann modeling of boiling heat transfer: The boiling curve and the effects of wettability. International Journal of Heat and Mass Transfer, 2015, 85, 787-796.	2.5	278
576	The cumulant lattice Boltzmann equation in three dimensions: Theory and validation. Computers and Mathematics With Applications, 2015, 70, 507-547.	1.4	297
577	Time-independent lattice Boltzmann method calculation of hydrodynamic interactions between two particles. Physical Review E, 2015, 91, 063308.	0.8	3
578	Double multiple-relaxation-time lattice Boltzmann model for solidâ€“liquid phase change with natural convection in porous media. Physica A: Statistical Mechanics and Its Applications, 2015, 438, 94-106.	1.2	66
579	Predicting the transport process of indoor semi-volatile organic compounds via lattice Boltzmann method. Building and Environment, 2015, 94, 82-96.	3.0	8

#	ARTICLE	IF	CITATIONS
580	Multirelaxation-time lattice Boltzmann model for droplet heating and evaporation under forced convection. <i>Physical Review E</i> , 2015, 91, 043012.	0.8	17
581	Lattice Boltzmann simulation of immiscible fluid displacement in porous media: Homogeneous versus heterogeneous pore network. <i>Physics of Fluids</i> , 2015, 27, .	1.6	127
582	Boundary condition for lattice Boltzmann modeling of microscale gas flows with curved walls in the slip regime. <i>Physical Review E</i> , 2015, 91, 043305.	0.8	50
583	Three-dimensional prediction of reservoir water temperature by the lattice Boltzmann method: Validation. <i>Journal of Hydrodynamics</i> , 2015, 27, 248-256.	1.3	11
584	Investigation of coalescence-induced droplet jumping on superhydrophobic surfaces and liquid condensate adhesion on slit and plain fins. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 445-455.	2.5	71
585	Lattice Boltzmann simulation of the three-dimensional motions of particles with various density ratios in lid-driven cavity flow. <i>Applied Mathematics and Computation</i> , 2015, 265, 826-843.	1.4	17
586	Multiple-relaxation-time lattice Boltzmann kinetic model for combustion. <i>Physical Review E</i> , 2015, 91, 043306.	0.8	73
587	14-velocity and 18-velocity multiple-relaxation-time lattice Boltzmann models for three-dimensional incompressible flows. <i>Computers and Mathematics With Applications</i> , 2015, 69, 997-1019.	1.4	3
588	A numerical study on splash of oblique drop impact on wet walls. <i>Computers and Fluids</i> , 2015, 115, 11-24.	1.3	50
589	Phase interface effects in the total enthalpy-based lattice Boltzmann model for solid-liquid phase change. <i>Journal of Computational Physics</i> , 2015, 294, 346-362.	1.9	118
590	Lattice Boltzmann model for the correct convection-diffusion equation with divergence-free velocity field. <i>Physical Review E</i> , 2015, 91, 033302.	0.8	12
591	A Comparative Study of LBE and DUGKS Methods for Nearly Incompressible Flows. <i>Communications in Computational Physics</i> , 2015, 17, 657-681.	0.7	67
592	Force method in a pseudo-potential lattice Boltzmann model. <i>Journal of Computational Physics</i> , 2015, 294, 78-89.	1.9	31
593	Efficient Stabilization of Advection Terms Involved in Separated Representations of Boltzmann and Fokker-Planck Equations. <i>Communications in Computational Physics</i> , 2015, 17, 975-1006.	0.7	4
594	Simulation of expanding bubble through a hole in a channel driven by pressure using lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2015, 70, 244-253.	1.4	13
595	Simulation of Acoustic Behavior of Bubbly Liquids with Hybrid Lattice Boltzmann and Homogeneous Equilibrium Models. <i>Communications in Computational Physics</i> , 2015, 17, 925-936.	0.7	3
596	A conservative lattice Boltzmann model for the volume-averaged Navier-Stokes equations based on a novel collision operator. <i>Journal of Computational Physics</i> , 2015, 294, 258-273.	1.9	10
597	Lattice-Boltzmann methods for suspensions of solid particles. <i>Molecular Physics</i> , 2015, 113, 2531-2537.	0.8	25

#	ARTICLE	IF	CITATIONS
598	Numerical Investigation of the Effects of a Magnetic Field on Nanofluid Flow and Heat Transfer by the Lattice Boltzmann Method. Numerical Heat Transfer; Part A: Applications, 2015, 68, 1-16.	1.2	26
599	Numerical simulation of wind loads on a parabolic trough solar collector using lattice Boltzmann and finite element methods. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 146, 185-194.	1.7	29
600	Pore-Scale Study of Miscible Displacements in Porous Media Using Lattice Boltzmann Method. Journal of Statistical Physics, 2015, 161, 1453-1481.	0.5	3
601	A three-dimensional pseudo-potential-based lattice Boltzmann model for multiphase flows with large density ratio and variable surface tension. International Journal of Heat and Fluid Flow, 2015, 56, 261-271.	1.1	102
602	Calculation of friction coefficient and analysis of fluid flow in a stepped micro-channel for wide range of Knudsen number using Lattice Boltzmann (MRT) method. Physica A: Statistical Mechanics and Its Applications, 2015, 440, 161-175.	1.2	15
603	Two-dimensional characteristic boundary conditions for open boundaries in the lattice Boltzmann methods. Journal of Computational Physics, 2015, 302, 191-199.	1.9	11
604	Dynamically adaptive Lattice Boltzmann simulation of shallow water flows with the Peano framework. Applied Mathematics and Computation, 2015, 267, 795-804.	1.4	4
605	Lattice Boltzmann simulation of the thermocapillary flow in an annular two liquid layers system with deformable interface. International Communications in Heat and Mass Transfer, 2015, 68, 78-84.	2.9	6
606	Study of coupled double diffusive convection+radiation in a tilted cavity via a hybrid multi-relaxation time-lattice Boltzmann-finite difference and discrete ordinate methods. Heat and Mass Transfer, 2015, 51, 567-586.	1.2	8
607	Volume-averaged macroscopic equation for fluid flow in moving porous media. International Journal of Heat and Mass Transfer, 2015, 82, 357-368.	2.5	57
608	Numerical investigation of four-lid-driven cavity flow bifurcation using the multiple-relaxation-time lattice Boltzmann method. Computers and Fluids, 2015, 110, 136-151.	1.3	8
609	Numerics of the lattice boltzmann method on nonuniform grids: Standard LBM and finite-difference LBM. Computers and Fluids, 2015, 107, 205-213.	1.3	49
610	Coarse- and fine-grid numerical behavior of MRT/TRT lattice-Boltzmann schemes in regular and random sphere packings. Journal of Computational Physics, 2015, 281, 708-742.	1.9	109
611	Study on grooved wall flow under rarefied condition using the Lattice Boltzmann Method. International Journal of Mechanical Sciences, 2015, 90, 1-5.	3.6	9
612	An axisymmetric multiple-relaxation-time lattice Boltzmann scheme. Journal of Computational Physics, 2015, 281, 55-66.	1.9	13
613	Enhancing Computational Precision for Lattice Boltzmann Schemes in Porous Media Flows. Computation, 2016, 4, 11.	1.0	13
614	Improving the Stability of the Multiple-Relaxation-Time Lattice Boltzmann Method by a Viscosity Counteracting Approach. Advances in Applied Mathematics and Mechanics, 2016, 8, 37-51.	0.7	10
615	Numerical simulation of flow over a circular cylinder with a splitter plate near a moving wall. Ocean Engineering, 2016, 122, 162-171.	1.9	12

#	ARTICLE	IF	CITATIONS
616	Three-dimensional multi-relaxation-time lattice Boltzmann front-tracking method for two-phase flow. Chinese Physics B, 2016, 25, 014702.	0.7	4
617	Numerical study of the properties of the central moment lattice Boltzmann method. International Journal for Numerical Methods in Fluids, 2016, 82, 59-90.	0.9	58
618	Lattice Boltzmann methods for the simulation of heat transfer in particle suspensions. International Journal of Heat and Fluid Flow, 2016, 62, 150-165.	1.1	16
619	Thermodynamics of a real fluid near the critical point in numerical simulations of isotropic turbulence. Physics of Fluids, 2016, 28, .	1.6	9
620	Transitional hemodynamics in intracranial aneurysms – Comparative velocity investigations with high resolution lattice Boltzmann simulations, normal resolution ANSYS simulations, and MR imaging. Medical Physics, 2016, 43, 6186-6198.	1.6	30
621	Cascaded lattice Boltzmann method with improved forcing scheme for large-density-ratio multiphase flow at high Reynolds and Weber numbers. Physical Review E, 2016, 94, 053313.	0.8	48
622	Entropic multi-relaxation time lattice Boltzmann model for complex flows. Journal of Fluid Mechanics, 2016, 801, 623-651.	1.4	62
623	Active control of vortex-induced vibrations of a circular cylinder using windward-suction-leeward-blowing actuation. Physics of Fluids, 2016, 28, .	1.6	59
624	Characterising the Behaviour of Hydraulic Fracturing Fluids via Direct Numerical Simulation. , 2016, , .		1
625	Recovering the full Navier Stokes equations with lattice Boltzmann schemes. AIP Conference Proceedings, 2016, , .	0.3	2
626	Evolution of an elliptic vortex ring in a viscous fluid. Physics of Fluids, 2016, 28, .	1.6	38
627	A Multiple-Relaxation-Time Lattice Boltzmann Model for General Nonlinear Anisotropic Convection–Diffusion Equations. Journal of Scientific Computing, 2016, 69, 355-390.	1.1	122
628	A mass-conserving lattice Boltzmann method with dynamic grid refinement for immiscible two-phase flows. Journal of Computational Physics, 2016, 315, 434-457.	1.9	116
629	Total enthalpy-based lattice Boltzmann method with adaptive mesh refinement for solid-liquid phase change. Journal of Computational Physics, 2016, 315, 65-83.	1.9	55
630	Lattice Boltzmann flux scheme for the convection–diffusion equation and its applications. Computers and Mathematics With Applications, 2016, 72, 48-63.	1.4	11
631	A decoupling multiple-relaxation-time lattice Boltzmann flux solver for non-Newtonian power-law fluid flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 235, 20-28.	1.0	24
632	A comparative study on the lattice Boltzmann models for predicting effective diffusivity of porous media. International Journal of Heat and Mass Transfer, 2016, 98, 687-696.	2.5	92
633	High density ratio lattice Boltzmann method simulations of multicomponent multiphase transport of H <sub>2</sub> O in air. Computers and Fluids, 2016, 131, 81-90.	1.3	30

#	ARTICLE	IF	CITATIONS
634	A multiple relaxation time extension of the constant speed kinetic model. <i>International Journal of Modern Physics C</i> , 2016, 27, 1650088.	0.8	5
635	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
636	Numerical study of laminar mixed convection in a square open cavity. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 599-612.	2.5	21
637	Pinning and Depinning Mechanism of the Contact Line during Evaporation on Chemically Patterned Surfaces: A Lattice Boltzmann Study. <i>Langmuir</i> , 2016, 32, 9389-9396.	1.6	106
638	Pore-scale geometry effects on gas permeability in shale. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 948-957.	2.1	58
639	Two-dimensional simulation of intermediate-sized bubbles in low viscous liquids using counter diffusion lattice Boltzmann method. <i>Nuclear Engineering and Design</i> , 2016, 305, 547-558.	0.8	2
640	Third-order analysis of pseudopotential lattice Boltzmann model for multiphase flow. <i>Journal of Computational Physics</i> , 2016, 327, 121-139.	1.9	59
641	An implicit block LU-SGS finite-volume lattice-Boltzmann scheme for steady flows on arbitrary unstructured meshes. <i>Journal of Computational Physics</i> , 2016, 327, 503-518.	1.9	19
642	A lattice Boltzmann method for axisymmetric multicomponent flows with high viscosity ratio. <i>Journal of Computational Physics</i> , 2016, 327, 873-893.	1.9	44
643	Stabilizing the thermal lattice Boltzmann method by spatial filtering. <i>Physical Review E</i> , 2016, 94, 043302.	0.8	0
644	Parallel computation of turbulent flows using moment base lattice Boltzmann method. <i>International Journal of Computational Fluid Dynamics</i> , 2016, 30, 363-369.	0.5	10
645	Numerical investigation on characteristic flow regions for three staggered stationary circular cylinders. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 60, 48-61.	1.2	17
646	Double MRT thermal lattice Boltzmann method for simulating natural convection of low Prandtl number fluids. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016, 26, 1889-1909.	1.6	16
647	Consistent lattice Boltzmann methods for incompressible axisymmetric flows. <i>Physical Review E</i> , 2016, 94, 023302.	0.8	12
648	Lattice Boltzmann simulations of axisymmetric natural convection with anisotropic thermal diffusion. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 1304-1315.	2.5	14
649	Non-orthogonal multiple-relaxation-time lattice Boltzmann method for incompressible thermal flows. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 1334-1344.	2.5	45
650	Extended application of lattice Boltzmann method to rarefied gas flow in micro-channels. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 463, 25-36.	1.2	36
651	Terminal shape and velocity of a rising bubble by phase-field-based incompressible Lattice Boltzmann model. <i>Advances in Water Resources</i> , 2016, 97, 100-109.	1.7	14

#	ARTICLE	IF	CITATIONS
652	Generalizing the Boltzmann equation in complex phase space. <i>Physical Review E</i> , 2016, 94, 023316.	0.8	4
653	Multiple-relaxation-time color-gradient lattice Boltzmann model for simulating two-phase flows with high density ratio. <i>Physical Review E</i> , 2016, 94, 023310.	0.8	97
654	Three-dimensional lattice Boltzmann simulation of suspensions containing both micro- and nanoparticles. <i>International Journal of Heat and Fluid Flow</i> , 2016, 62, 560-567.	1.1	17
655	An overview of boundary implementation in lattice Boltzmann method for computational heat and mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 1-12.	2.9	40
656	A hydrodynamically-consistent MRT lattice Boltzmann model on a 2D rectangular grid. <i>Journal of Computational Physics</i> , 2016, 326, 893-912.	1.9	18
657	Moment-based boundary conditions for lattice Boltzmann simulations of natural convection in cavities. <i>Progress in Computational Fluid Dynamics</i> , 2016, 16, 216.	0.1	14
658	Gas flow through rough microchannels in the transition flow regime. <i>Physical Review E</i> , 2016, 93, 013128.	0.8	29
659	Lattice Boltzmann modeling of three-phase incompressible flows. <i>Physical Review E</i> , 2016, 93, 013308.	0.8	94
660	Theory of the Lattice Boltzmann method: Derivation of macroscopic equations via the Maxwell iteration. <i>Physical Review E</i> , 2016, 93, 033310.	0.8	41
661	Lattice Boltzmann simulation of the gas-solid adsorption process in reconstructed random porous media. <i>Physical Review E</i> , 2016, 93, 043101.	0.8	51
662	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
663	Field-wide flow simulation in fractured porous media within lattice Boltzmann framework. <i>Advances in Water Resources</i> , 2016, 96, 170-179.	1.7	4
664	Improving lattice Boltzmann simulation of moving particles in a viscous flow using local grid refinement. <i>Computers and Fluids</i> , 2016, 136, 228-246.	1.3	6
665	Lattice Boltzmann simulation of three-dimensional Rayleigh-Taylor instability. <i>Physical Review E</i> , 2016, 93, 033113.	0.8	51
666	Crystallographic Lattice Boltzmann Method. <i>Scientific Reports</i> , 2016, 6, 27172.	1.6	26
667	Numerical study of bifurcating flow through sudden expansions: effect of divergence and geometric asymmetry. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2016, 8, 259-273.	0.7	6
668	Revised Chapman-Enskog analysis for a class of forcing schemes in the lattice Boltzmann method. <i>Physical Review E</i> , 2016, 94, 043313.	0.8	18
669	A PRECISE FREE SURFACE SIMULATION BY LATTICE BOLTZMANN METHOD WITH THE MULTIPLE RELAXATION TIME MODEL. <i>Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering)</i> , 2016, 72, I_253-I_258.	0.0	0

#	ARTICLE	IF	CITATIONS
670	Three-dimensional simulations of Bingham plastic flows with the multiple-relaxation-time lattice Boltzmann model. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2016, 10, 346-358.	1.5	13
671	Three-dimensional phase-field lattice Boltzmann model for incompressible multiphase flows. <i>Journal of Computational Science</i> , 2016, 17, 340-356.	1.5	14
672	An adaptive lattice Boltzmann scheme for modeling two-fluid phase flow in porous medium systems. <i>Water Resources Research</i> , 2016, 52, 2601-2617.	1.7	9
673	Comparison of wake structures and force measurements behind three side-by-side cylinders. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 843-858.	0.8	30
674	Analysis of electro-osmotic flow in a microchannel with undulated surfaces. <i>Computers and Fluids</i> , 2016, 124, 237-245.	1.3	16
675	Electromagnetic excitation of particle suspensions in hydraulic fractures using a coupled lattice Boltzmann-discrete element model. <i>Computational Particle Mechanics</i> , 2016, 3, 125-140.	1.5	10
676	Transitions in the unsteady wakes and aerodynamic characteristics of the flow past three square cylinders aligned inline. <i>Aerospace Science and Technology</i> , 2016, 50, 96-111.	2.5	32
677	Linear and non-linear Robin boundary conditions for thermal lattice Boltzmann method: cases of convective and radiative heat transfer at interfaces. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 927-935.	2.5	11
678	Derivation and analysis of Lattice Boltzmann schemes for the linearized Euler equations. <i>Computers and Mathematics With Applications</i> , 2016, 72, 311-327.	1.4	5
679	Multiphase lattice Boltzmann simulations for porous media applications. <i>Computational Geosciences</i> , 2016, 20, 777-805.	1.2	296
680	Control of wakes and vortex-induced vibrations of a single circular cylinder using synthetic jets. <i>Journal of Fluids and Structures</i> , 2016, 60, 160-179.	1.5	87
681	Peristaltic flow of Bingham fluids at large Reynolds numbers: A numerical study. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 227, 30-44.	1.0	32
682	A modified lattice Bhatnagar-Gross-Krook model for convection heat transfer in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2016, 94, 269-291.	2.5	46
683	Anisotropic thermal lattice Boltzmann simulation of 2D natural convection in a square cavity. <i>Computers and Fluids</i> , 2016, 124, 278-287.	1.3	25
684	Lattice Boltzmann methods for multiphase flow and phase-change heat transfer. <i>Progress in Energy and Combustion Science</i> , 2016, 52, 62-105.	15.8	689
685	Double MRT thermal lattice Boltzmann simulation for MHD natural convection of nanofluids in an inclined cavity with four square heat sources. <i>International Journal of Heat and Mass Transfer</i> , 2016, 94, 87-100.	2.5	80
686	Simulation of a suspended droplet under evaporation with Marangoni effects. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 853-860.	2.5	16
687	Natural Convection Heat Transfer of a Nanofluid into a Cubical Enclosure: Lattice Boltzmann Investigation. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 1969-1980.	1.1	20



#	ARTICLE	IF	CITATIONS
688	Transitional flow in intracranial aneurysms – A space and time refinement study below the Kolmogorov scales using Lattice Boltzmann Method. <i>Computers and Fluids</i> , 2016, 127, 36-46.	1.3	22
689	Analysis of the accuracy and pressure oscillation of the lattice Boltzmann method for fluid–solid interactions. <i>Computers and Fluids</i> , 2016, 129, 33-52.	1.3	13
690	Simulation on Thermocapillary-Driven Drop Coalescence by Hybrid Lattice Boltzmann Method. <i>Microgravity Science and Technology</i> , 2016, 28, 67-77.	0.7	16
691	Lattice Boltzmann method simulation of 3-D natural convection with double MRT model. <i>International Journal of Heat and Mass Transfer</i> , 2016, 94, 222-238.	2.5	65
692	The lattice Boltzmann method for isothermal micro-gaseous flow and its application in shale gas flow: A review. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 94-108.	2.5	123
693	Permeability of high-Kn real gas flow in shale and production prediction by pore-scale modeling. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 28, 328-337.	2.1	40
694	Application and accuracy issues of TRT lattice Boltzmann method for solving elliptic PDEs commonly encountered in heat transfer and fluid flow problems. <i>International Journal of Thermal Sciences</i> , 2016, 100, 185-201.	2.6	10
695	New thermal MRT lattice Boltzmann method for simulations of convective flows. <i>International Journal of Thermal Sciences</i> , 2016, 100, 98-107.	2.6	36
696	Lattice Boltzmann simulation of two cold particles settling in Newtonian fluid with thermal convection. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 477-490.	2.5	30
697	Implementation issues and benchmarking of lattice Boltzmann method for moving rigid particle simulations in a viscous flow. <i>Computers and Mathematics With Applications</i> , 2016, 72, 349-374.	1.4	70
698	Intercomparison of 3D pore-scale flow and solute transport simulation methods. <i>Advances in Water Resources</i> , 2016, 95, 176-189.	1.7	105
699	High-order lattice-Boltzmann. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 1401-1419.	0.8	10
700	An efficient immersed boundary-lattice Boltzmann flux solver for simulation of 3D incompressible flows with complex geometry. <i>Computers and Fluids</i> , 2016, 124, 54-66.	1.3	29
701	Numerical investigation of vortex suppression regions for three staggered circular cylinders. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 55, 207-214.	1.2	16
702	Reassessing the single relaxation time Lattice Boltzmann method for the simulation of Darcy’s flows. <i>International Journal of Modern Physics C</i> , 2016, 27, 1650037.	0.8	23
703	Lattice Boltzmann method for Oldroyd-B fluids. <i>Computers and Fluids</i> , 2016, 124, 190-196.	1.3	21
704	Lattice Boltzmann modeling of self-propelled Leidenfrost droplets on ratchet surfaces. <i>Soft Matter</i> , 2016, 12, 302-312.	1.2	57
705	Lattice Boltzmann Model Using Two Relaxation Times for Shallow-Water Equations. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	0.7	22



#	ARTICLE	IF	CITATIONS
706	Numerical investigation of a gas-solid turbulent jet flow with Reynolds number of 4500 using lattice Boltzmann method. <i>Applied Mathematical Modelling</i> , 2016, 40, 565-577.	2.2	6
707	Designing correct fluid hydrodynamics on a rectangular grid using MRT lattice Boltzmann approach. <i>Computers and Mathematics With Applications</i> , 2016, 72, 288-310.	1.4	15
708	Numerical investigation of wake modes for flow past three tandem cylinders using the multi-relaxation-time lattice Boltzmann method for different gap spacings. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 799-812.	0.8	17
709	Simulation of real time particle deposition and removal processes on tubes by coupled numerical method. <i>Applied Energy</i> , 2017, 185, 2181-2193.	5.1	57
710	A Unified Detail-Preserving Liquid Simulation by Two-Phase Lattice Boltzmann Modeling. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2017, 23, 1479-1491.	2.9	14
711	Lattice Boltzmann model approximated with finite difference expressions. <i>Computers and Fluids</i> , 2017, 155, 3-8.	1.3	7
712	Diffuse interface modeling of three-phase contact line dynamics on curved boundaries: A lattice Boltzmann model for large density and viscosity ratios. <i>Journal of Computational Physics</i> , 2017, 334, 620-638.	1.9	120
713	Low- and high-order accurate boundary conditions: From Stokes to Darcy porous flow modeled with standard and improved Brinkman lattice Boltzmann schemes. <i>Journal of Computational Physics</i> , 2017, 335, 50-83.	1.9	27
714	A modified lattice Bhatnagar-Gross-Krook model for axisymmetric thermal flow. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 691-702.	2.5	3
715	Numerical modelling of backward front propagation in piping erosion by DEM-LBM coupling. <i>European Journal of Environmental and Civil Engineering</i> , 2017, 21, 960-987.	1.0	36
716	Issues associated with Galilean invariance on a moving solid boundary in the lattice Boltzmann method. <i>Physical Review E</i> , 2017, 95, 013301.	0.8	9
717	A numerical study on the migration of a neutrally buoyant particle in a Poiseuille flow with thermal convection. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 2158-2168.	2.5	23
718	A modified double distribution lattice Boltzmann model for axisymmetric thermal flow. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 1150-1157.	0.9	5
719	Adaptive filtering for the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2017, 333, 212-226.	1.9	14
720	In situ contact angle measurements of liquid CO <sub>2</sub> , brine, and Mount Simon sandstone core using micro X-ray CT imaging, sessile drop, and Lattice Boltzmann modeling. <i>Journal of Petroleum Science and Engineering</i> , 2017, 155, 3-10.	2.1	28
721	Gas Migration in Highly Water-Saturated Opalinus Clay Microfractures Using a Two-Phase TRT LBM. <i>Transport in Porous Media</i> , 2017, 116, 975-1003.	1.2	7
722	An efficient Discrete Element Lattice Boltzmann model for simulation of particle-fluid, particle-particle interactions. <i>Computers and Fluids</i> , 2017, 147, 63-71.	1.3	33
723	Benchmark computations for 3D two-phase flows: A coupled lattice Boltzmann-level set study. <i>Computers and Mathematics With Applications</i> , 2017, 73, 520-536.	1.4	13

#	ARTICLE	IF	CITATIONS
724	Finite Difference-Based Cellular Automaton Technique for Structural and Fluid-Structure Interaction Applications. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.4	7
725	Lattice Boltzmann simulations of oscillating-grid turbulence. Journal of Hydrodynamics, 2017, 29, 68-74.	1.3	5
726	Efficient numerical simulation of injection mold filling with the lattice Boltzmann method. Engineering Computations, 2017, 34, 307-329.	0.7	7
727	Semi-Lagrangian off-lattice Boltzmann method for weakly compressible flows. Physical Review E, 2017, 95, 023305.	0.8	46
728	A matrix-free, implicit finite volume lattice Boltzmann method for steady flows. Computers and Fluids, 2017, 148, 157-165.	1.3	2
729	Accelerated lattice Boltzmann simulation using GPU and OpenACC with data management. International Journal of Heat and Mass Transfer, 2017, 109, 577-588.	2.5	108
730	Lattice Boltzmann simulations of three-dimensional incompressible flows in a four-sided lid driven cavity. Fluid Dynamics Research, 2017, 49, 025507.	0.6	1
731	An efficient phase-field-based multiple-relaxation-time lattice Boltzmann model for three-dimensional multiphase flows. Computers and Mathematics With Applications, 2017, 73, 1524-1538.	1.4	28
732	Lattice Boltzmann Simulation of Wormhole Propagation in Carbonate Acidizing. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	1.4	9
733	Multi-relaxation-time lattice Boltzmann simulations of lid driven flows using graphics processing unit. Applied Mathematics and Mechanics (English Edition), 2017, 38, 707-722.	1.9	3
734	Lattice Boltzmann simulation of immiscible two-phase flow with capillary valve effect in porous media. Water Resources Research, 2017, 53, 3770-3790.	1.7	98
735	An Alternative Lattice Boltzmann Model for Incompressible Flows and its Stabilization. Communications in Computational Physics, 2017, 21, 443-465.	0.7	7
736	Relative permeability of two immiscible fluids flowing through porous media determined by lattice Boltzmann method. International Communications in Heat and Mass Transfer, 2017, 85, 53-61.	2.9	51
737	High-order regularization in lattice-Boltzmann equations. Physics of Fluids, 2017, 29, .	1.6	66
738	Three dimensional lattice Boltzmann simulation for mixed convection of nanofluids in the presence of magnetic field. International Communications in Heat and Mass Transfer, 2017, 80, 1-9.	2.9	26
739	Regularized characteristic boundary conditions for the Lattice-Boltzmann methods at high Reynolds number flows. Journal of Computational Physics, 2017, 331, 1-18.	1.9	14
740	Numerical investigation of heat transfer enhancement in electro-thermo-convection in a square enclosure with an inner circular cylinder. International Journal of Heat and Mass Transfer, 2017, 113, 1070-1085.	2.5	56
741	Lattice Boltzmann models for axisymmetric solid-liquid phase change. International Journal of Heat and Mass Transfer, 2017, 112, 795-804.	2.5	48

#	ARTICLE	IF	CITATIONS
742	Double MRT lattice Boltzmann model for axisymmetric convective flow in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 810-813.	2.5	10
743	Finite-difference lattice Boltzmann model for nonlinear convection-diffusion equations. <i>Applied Mathematics and Computation</i> , 2017, 309, 334-349.	1.4	33
744	Effect of collision and velocity model of lattice Boltzmann model on three-dimensional turbulent flow simulation. <i>International Journal of Computational Fluid Dynamics</i> , 2017, 31, 258-268.	0.5	4
745	A hybrid multi-time-step framework for pore-scale and continuum-scale modeling of solute transport in porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 323, 98-131.	3.4	3
746	Three-dimensional simplified and unconditionally stable lattice Boltzmann method for incompressible isothermal and thermal flows. <i>Physics of Fluids</i> , 2017, 29, 053601.	1.6	27
747	New Cascaded Thermal Lattice Boltzmann Method for simulations of advection-diffusion and convective heat transfer. <i>International Journal of Thermal Sciences</i> , 2017, 118, 259-277.	2.6	26
748	Lattice-Boltzmann lattice-spring simulations of flexibility and inertial effects on deformation and cruising reversal of self-propelled flexible swimming bodies. <i>Computers and Fluids</i> , 2017, 155, 89-102.	1.3	11
749	Numerical study of three-dimensional natural convection in a cubical cavity at high Rayleigh numbers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 217-228.	2.5	78
750	A weighted multiple-relaxation-time lattice Boltzmann method for multiphase flows and its application to partial coalescence cascades. <i>Journal of Computational Physics</i> , 2017, 341, 22-43.	1.9	77
751	Lattice-Boltzmann lattice-spring simulations of influence of deformable blockages on blood fluids in an elastic vessel. <i>Computers and Fluids</i> , 2017, 155, 103-111.	1.3	14
752	Mathematical modeling and optimal control problems in brain tumor targeted drug delivery strategies. <i>International Journal of Biomathematics</i> , 2017, 10, 1750056.	1.5	8
753	Droplet migration on hydrophobic-hydrophilic hybrid surfaces: a lattice Boltzmann study. <i>RSC Advances</i> , 2017, 7, 14701-14708.	1.7	21
754	2D and 3D lattice Boltzmann simulation for natural convection melting. <i>International Journal of Thermal Sciences</i> , 2017, 117, 239-250.	2.6	32
755	Numerical study on the sedimentation of single and multiple slippery particles in a Newtonian fluid. <i>Powder Technology</i> , 2017, 315, 126-138.	2.1	25
756	Analysis and numerical tests of lifting relations to reconstruct LBM distribution functions for coupling simulations. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 945-955.	2.5	7
757	An efficient unified iterative scheme for moving boundaries in lattice Boltzmann method. <i>Computers and Fluids</i> , 2017, 144, 34-43.	1.3	18
758	Lattice Boltzmann models for the convection-diffusion equation: D2Q5 vs D2Q9. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 41-62.	2.5	108
759	A Simplified Lattice Boltzmann Method without Evolution of Distribution Function. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 1-22.	0.7	68

#	ARTICLE	IF	CITATIONS
760	Hermite regularization of the lattice Boltzmann method for open source computational aeroacoustics. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 2332-2345.	0.5	26
761	Three-dimensional lattice Boltzmann models for solid-liquid phase change. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1334-1347.	2.5	45
762	Improved locality of the phase-field lattice-Boltzmann model for immiscible fluids at high density ratios. <i>Physical Review E</i> , 2017, 96, 053301.	0.8	122
763	Study on C <sub>S</sub> and P <sub>R</sub> EOS in pseudo-potential lattice Boltzmann model for two-phase flows. <i>International Journal of Modern Physics C</i> , 2017, 28, 1750120.	0.8	8
764	Cascaded collision lattice Boltzmann model (CLBM) for simulating fluid and heat transport in porous media. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 72, 211-232.	0.6	14
765	Modelling of immiscible liquid-liquid systems by Smoothed Particle Hydrodynamics. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 567-574.	5.0	6
766	Accuracy and Numerical Stability Analysis of Lattice Boltzmann Method with Multiple Relaxation Time for Incompressible Flows. <i>Journal of Physics: Conference Series</i> , 2017, 877, 012035.	0.3	4
767	Investigation of droplet evaporation on heterogeneous surfaces using a three-dimensional thermal multiphase lattice Boltzmann model. <i>Applied Thermal Engineering</i> , 2017, 127, 1346-1354.	3.0	51
768	References and benchmarks for pore-scale flow simulated using micro-CT images of porous media and digital rocks. <i>Advances in Water Resources</i> , 2017, 109, 211-235.	1.7	100
769	Lattice Boltzmann Simulations of Cavity Flows on Graphic Processing Unit with Memory Management. <i>Journal of Mechanics</i> , 2017, 33, 863-871.	0.7	4
770	An iterative source correction based immersed boundary-lattice Boltzmann method for thermal flow simulations. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 450-460.	2.5	14
771	Consistent lattice Boltzmann modeling of low-speed isothermal flows at finite Knudsen numbers in slip-flow regime: Application to plane boundaries. <i>Physical Review E</i> , 2017, 96, 013311.	0.8	26
772	Transition Flow with an Incompressible Lattice Boltzmann Method. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 1271-1288.	0.7	7
773	Experimental and pore-level numerical investigation of water evaporation in gas diffusion layers of polymer electrolyte fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 238-249.	2.5	42
774	Effect of image segmentation & voxel size on micro-CT computed effective transport & elastic properties. <i>Marine and Petroleum Geology</i> , 2017, 86, 972-990.	1.5	110
775	A lattice Boltzmann model for interphase conjugate heat transfer. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 72, 130-151.	0.6	4
776	Lattice Boltzmann modeling and simulation of liquid jet breakup. <i>Physical Review E</i> , 2017, 96, 013317.	0.8	46
777	Control of vortex-induced vibration using a pair of synthetic jets: Influence of active lock-on. <i>Physics of Fluids</i> , 2017, 29, .	1.6	43

#	ARTICLE	IF	CITATIONS
778	Enthalpy-based multiple-relaxation-time lattice Boltzmann method for solid-liquid phase-change heat transfer in metal foams. <i>Physical Review E</i> , 2017, 96, 023303.	0.8	24
779	Maxwell iteration for the lattice Boltzmann method with diffusive scaling. <i>Physical Review E</i> , 2017, 95, 033311.	0.8	25
780	Study on multicomponent pseudo-potential model with large density ratio and heat transfer. <i>International Communications in Heat and Mass Transfer</i> , 2017, 87, 183-191.	2.9	19
781	Improved thermal lattice Boltzmann model for simulation of liquid-vapor phase change. <i>Physical Review E</i> , 2017, 96, 063303.	0.8	94
782	Novel hybrid lattice Boltzmann technique with TVD characteristics for simulation of heat transfer and entropy generations of MHD and natural convection in a cavity. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 72, 431-449.	0.6	10
783	Multiple-relaxation-time lattice Boltzmann study of the magnetic field effects on natural convection of non-Newtonian fluids. <i>International Journal of Modern Physics C</i> , 2017, 28, 1750138.	0.8	7
784	Kelvin-Helmholtz instability of the Dirac fluid of charge carriers on graphene. <i>Physical Review B</i> , 2017, 96, .	1.1	18
785	Consistent forcing scheme in the cascaded lattice Boltzmann method. <i>Physical Review E</i> , 2017, 96, 053307.	0.8	57
786	Benchmarking of three-dimensional multicomponent lattice Boltzmann equation. <i>Physical Review E</i> , 2017, 96, 053308.	0.8	6
787	Lattice Boltzmann model capable of mesoscopic vorticity computation. <i>Physical Review E</i> , 2017, 96, 053304.	0.8	8
788	Impact of the kinetic boundary condition on porous media flow in the lattice Boltzmann formulation. <i>Physical Review E</i> , 2017, 96, 013303.	0.8	10
789	Numerical analysis of the lattice Boltzmann method for simulation of linear acoustic waves. <i>Physical Review E</i> , 2017, 95, 043306.	0.8	11
790	Discrete modelling of front propagation in backward piping erosion. <i>EPJ Web of Conferences</i> , 2017, 140, 09036.	0.1	2
791	Viscoinertial regime of immersed granular flows. <i>Physical Review E</i> , 2017, 96, 012901.	0.8	59
792	Topology optimization method for interior flow based on transient information of the lattice Boltzmann method with a level-set function. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2017, 34, 611-632.	0.5	8
793	Chemical-potential-based lattice Boltzmann method for nonideal fluids. <i>Physical Review E</i> , 2017, 95, 063305.	0.8	38
794	Cessation of Darcy regime in gas flow through porous media using LBM: Comparison of pressure gradient approaches. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 45, 693-705.	2.1	11
795	Single-node second-order boundary schemes for the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2017, 329, 1-15.	1.9	53

#	ARTICLE	IF	CITATIONS
796	Boundary Conditions for Fluid-Structure Interaction. Graduate Texts in Physics, 2017, , 433-491.	0.1	0
797	Analysis of the Lattice Boltzmann Equation. Graduate Texts in Physics, 2017, , 105-152.	0.1	2
798	Boundary and Initial Conditions. Graduate Texts in Physics, 2017, , 153-230.	0.1	1
799	MRT and TRT Collision Operators. Graduate Texts in Physics, 2017, , 407-431.	0.1	1
800	Sound Waves. Graduate Texts in Physics, 2017, , 493-529.	0.1	1
801	A two-dimensional IB-LBM framework combined with re-tailored RCVM for assessing the rotation intensity of a tornadic wind over a building configuration. Engineering Structures, 2017, 131, 57-68.	2.6	1
802	Direct numerical simulation of transitional hydrodynamics of the cerebrospinal fluid in Chiari I malformation: The role of craniovertebral junction. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02853.	1.0	18
803	Buckling induced delamination and microflow analysis of film/substrate system. Composite Structures, 2017, 161, 8-14.	3.1	10
804	Drag correlation for micro spherical particles at finite Reynolds and Knudsen numbers by lattice Boltzmann simulations. Journal of Aerosol Science, 2017, 103, 105-116.	1.8	18
805	Lattice Boltzmann simulations of convection heat transfer in porous media. Physica A: Statistical Mechanics and Its Applications, 2017, 465, 742-753.	1.2	47
806	A lattice Boltzmann method for axisymmetric thermocapillary flows. International Journal of Heat and Mass Transfer, 2017, 104, 337-350.	2.5	46
807	Direct numerical simulations of particle sedimentation with heat transfer using the Lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2017, 104, 419-437.	2.5	8
808	Estimation of Permeability of Porous Material Using Pore Scale LBM Simulations. Lecture Notes in Mechanical Engineering, 2017, , 1381-1388.	0.3	4
809	Lattice Boltzmann methods for global linear instability analysis. Theoretical and Computational Fluid Dynamics, 2017, 31, 643-664.	0.9	14
810	Numerical investigation of flow around square cylinder with an upstream control plate at low Reynolds numbers in tandem. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 1201-1223.	0.8	7
811	Pore-scale study on reactive mixing of miscible solutions with viscous fingering in porous media. Computers and Fluids, 2017, 155, 146-160.	1.3	24
812	A novel lattice Boltzmann model for the solid-liquid phase change with the convection heat transfer in the porous media. International Journal of Heat and Mass Transfer, 2017, 104, 675-687.	2.5	36
813	Stability limits of the single relaxation-time advection-diffusion lattice Boltzmann scheme. International Journal of Modern Physics C, 2017, 28, 1750141.	0.8	25

#	ARTICLE	IF	CITATIONS
814	Combined immersed boundary method and multiple-relaxation-time lattice Boltzmann flux solver for numerical simulations of incompressible flows. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1679-1696.	1.9	3
815	An adaptive mesh refinement-multiphase lattice Boltzmann flux solver for simulation of complex binary fluid flows. Physics of Fluids, 2017, 29, .	1.6	28
816	Scaling behavior of immersed granular flows. EPJ Web of Conferences, 2017, 140, 09044.	0.1	0
817	The role of fluid viscosity in an immersed granular collapse. EPJ Web of Conferences, 2017, 140, 09037.	0.1	3
818	A study of boiling on surfaces with temperature-dependent wettability by lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2018, 122, 775-784.	2.5	29
819	Application of the ghost fluid lattice Boltzmann method to moving curved boundaries with constant temperature or heat flux conditions. Computers and Fluids, 2018, 167, 51-65.	1.3	7
820	Integer lattice gas with Monte Carlo collision operator recovers the lattice Boltzmann method with Poisson-distributed fluctuations. Physical Review E, 2018, 97, 023310.	0.8	7
821	The role of wettability of nonideal nozzle plate: From dropâ€œdemand droplet jetting to impact on solid substrate. AIChE Journal, 2018, 64, 2837-2850.	1.8	10
822	An alternative method to implement contact angle boundary condition and its application in hybrid lattice-Boltzmann finite-difference simulations of two-phase flows with immersed surfaces. European Physical Journal E, 2018, 41, 17.	0.7	8
823	Cascaded lattice Boltzmann method for incompressible thermal flows with heat sources and general thermal boundary conditions. Computers and Fluids, 2018, 165, 89-95.	1.3	24
824	Lattice Boltzmann method simulations about shale gas flow in contracting nano-channels. International Journal of Heat and Mass Transfer, 2018, 122, 1210-1221.	2.5	43
825	Pseudo-potential MRT - thermal LB simulation of flow boiling in vertical tubes. Heat and Mass Transfer, 2018, 54, 3035-3045.	1.2	2
826	Fully dissipative relativistic lattice Boltzmann method in two dimensions. Computers and Fluids, 2018, 172, 318-331.	1.3	14
827	Lattice Boltzmann simulation of TiO <sub>2</sub> -water nanofluid in a curved boundary domain at high Rayleigh numbers. Computers and Fluids, 2018, 168, 159-169.	1.3	8
828	Improving the stability of multiple-relaxation lattice Boltzmann methods with central moments. Computers and Fluids, 2018, 172, 397-409.	1.3	33
829	Inkjet droplet deposition dynamics into square microcavities for OLEDs manufacturing. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	9
830	Heat transfer enhancement using Al <sub>2</sub> O <sub>3</sub> -EG/W(60/40 vol%) in multiple-pipe heat exchanger. Journal of Molecular Liquids, 2018, 261, 319-336.	2.3	28
831	Variational inequalityâ€œbased framework of discontinuous deformation analysis. International Journal for Numerical Methods in Engineering, 2018, 115, 358-394.	1.5	20



#	ARTICLE	IF	CITATIONS
832	Imaging and computational considerations for image computed permeability: Operating envelope of Digital Rock Physics. <i>Advances in Water Resources</i> , 2018, 116, 127-144.	1.7	66
833	Sediment transport in turbulent flows with the lattice Boltzmann method. <i>Computers and Fluids</i> , 2018, 172, 340-351.	1.3	9
834	Enhancement of aerodynamic performance of a heaving airfoil using synthetic-jet based active flow control. <i>Bioinspiration and Biomimetics</i> , 2018, 13, 046005.	1.5	11
835	Numerical investigation of the accuracy, stability, and efficiency of lattice Boltzmann methods in simulating non-Newtonian flow. <i>Computers and Fluids</i> , 2018, 166, 253-274.	1.3	16
836	GPU-accelerated large eddy simulation of stirred tanks. <i>Chemical Engineering Science</i> , 2018, 181, 132-145.	1.9	29
837	Fourth order Galilean invariance for the lattice Boltzmann method. <i>Computers and Fluids</i> , 2018, 166, 139-151.	1.3	27
838	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
839	Minimized Capillary End Effect During CO <sub>2</sub> Displacement in 2D Micromodel by Manipulating Capillary Pressure at the Outlet Boundary in Lattice Boltzmann Method. <i>Water Resources Research</i> , 2018, 54, 895-915.	1.7	13
840	Lattice Boltzmann simulation of asymptotic longitudinal mass dispersion in reconstructed random porous media. <i>AIChE Journal</i> , 2018, 64, 2770-2780.	1.8	14
841	A phase-field lattice Boltzmann model for simulating multiphase flows in porous media: Application and comparison to experiments of CO <sub>2</sub> sequestration at pore scale. <i>Advances in Water Resources</i> , 2018, 114, 119-134.	1.7	68
842	Coupled GCMC and LBM simulation method for visualizations of CO <sub>2</sub> /CH <sub>4</sub> gas separation through Cu-BTC membranes. <i>Journal of Membrane Science</i> , 2018, 550, 448-461.	4.1	26
843	On improvements of simplified and highly stable lattice Boltzmann method: Formulations, boundary treatment, and stability analysis. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 87, 161-179.	0.9	43
844	Enhancement of boiling heat transfer using hydrophilic-hydrophobic mixed surfaces: A lattice Boltzmann study. <i>Applied Thermal Engineering</i> , 2018, 132, 490-499.	3.0	86
845	Lattice Boltzmann Methods for Bioengineering Applications. , 2018, , 415-429.		6
846	Pore-Scale Simulation of Shear Thinning Fluid Flow Using Lattice Boltzmann Method. <i>Transport in Porous Media</i> , 2018, 121, 753-782.	1.2	7
847	Modeling incompressible thermal flows using a central-moments-based lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 624-634.	2.5	47
848	Partial entropic stabilization of lattice Boltzmann magnetohydrodynamics. <i>Physical Review E</i> , 2018, 97, 013302.	0.8	4
849	Lattice Boltzmann model for high-order nonlinear partial differential equations. <i>Physical Review E</i> , 2018, 97, 013304.	0.8	29

#	ARTICLE	IF	CITATIONS
850	Color-gradient lattice Boltzmann modeling of immiscible two-phase flows on partially wetting surfaces. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 416-430.	1.1	11
851	Lattice Boltzmann simulations of high-order statistics in isotropic turbulent flows. Applied Mathematics and Mechanics (English Edition), 2018, 39, 21-30.	1.9	5
852	General propagation lattice Boltzmann model for nonlinear advection-diffusion equations. Physical Review E, 2018, 97, 043310.	0.8	16
853	A modified phase change pseudopotential lattice Boltzmann model. International Journal of Heat and Mass Transfer, 2018, 125, 323-329.	2.5	15
854	Unexpected convergence of lattice Boltzmann schemes. Computers and Fluids, 2018, 172, 301-311.	1.3	4
855	The computation of strain rate tensor in multiple-relaxation-time lattice Boltzmann model. Computers and Mathematics With Applications, 2018, 75, 2888-2902.	1.4	1
856	Drag, lift and torque acting on a two-dimensional non-spherical particle near a wall. Advanced Powder Technology, 2018, 29, 1507-1517.	2.0	15
857	Thermal Simulation of the Symmetric and Asymmetric Arrangement of Barriers on Heat Transfer Enhancement in a Porous Gas Heat Exchanger. Journal of Thermal Science and Engineering Applications, 2018, 10, .	0.8	1
858	A distributed parallel multiple-relaxation-time lattice Boltzmann method on general-purpose graphics processing units for the rapid and scalable computation of absolute permeability from high-resolution 3D micro-CT images. Computational Geosciences, 2018, 22, 815-832.	1.2	38
859	Lattice-Boltzmann lattice-spring simulations of two flexible fibers settling in moderate Reynolds number flows. Computers and Fluids, 2018, 167, 341-358.	1.3	5
860	Chapman-Enskog Analyses on the Gray Lattice Boltzmann Equation Method for Fluid Flow in Porous Media. Journal of Statistical Physics, 2018, 171, 493-520.	0.5	5
861	Entropic multiple-relaxation-time multirange pseudopotential lattice Boltzmann model for two-phase flow. Physics of Fluids, 2018, 30, .	1.6	42
862	Phase-field-based lattice Boltzmann modeling of large-density-ratio two-phase flows. Physical Review E, 2018, 97, 033309.	0.8	112
863	Study of flow over object problems by a nodal discontinuous Galerkin-lattice Boltzmann method. Physics of Fluids, 2018, 30, .	1.6	12
864	A lattice Boltzmann model for multiphase flows with moving contact line and variable density. Journal of Computational Physics, 2018, 353, 26-45.	1.9	10
865	Lattice Boltzmann simulations of liquid CO <sub>2</sub> displacing water in a 2D heterogeneous micromodel at reservoir pressure conditions. Journal of Contaminant Hydrology, 2018, 212, 14-27.	1.6	61
866	Numerical study on mass transfer from a composite particle settling in a vertical channel. International Journal of Heat and Mass Transfer, 2018, 117, 132-142.	2.5	2
867	Analytical and numerical studies of the boundary slip in the immersed boundary-thermal lattice Boltzmann method. International Journal for Numerical Methods in Fluids, 2018, 86, 454-490.	0.9	16

#	ARTICLE	IF	CITATIONS
868	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
869	The impact of sample size on transport properties of carbon-paper and carbon-cloth GDLs: Direct simulation using the lattice Boltzmann model. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 1325-1339.	2.5	26
870	A gas-kinetic BGK scheme for the finite volume lattice Boltzmann method for nearly incompressible flows. <i>Computers and Fluids</i> , 2018, 162, 126-138.	1.3	14
871	Direct numerical simulation of turbulent pipe flow using the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2018, 357, 16-42.	1.9	40
872	Lattice Boltzmann Simulation of Mass Transfer Coefficients for Chemically Reactive Flows in Porous Media. <i>Journal of Heat Transfer</i> , 2018, 140, .	1.2	38
873	On a two-relaxation-time D2Q9 lattice Boltzmann model for the Navier–Stokes equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 492, 1570-1580.	1.2	13
874	Phase-Field Modelling in Extractive Metallurgy. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018, 43, 417-454.	6.8	9
875	Regularized lattice Bhatnagar–Gross–Krook model for the thermal flow in porous media. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 405-415.	1.1	2
876	Permeability prediction of numerical reconstructed multiscale tight porous media using the representative elementary volume scale lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 368-377.	2.5	37
877	Numerical analysis of weld pool behaviors in plasma arc welding with the lattice Boltzmann method. <i>International Journal of Thermal Sciences</i> , 2018, 124, 447-458.	2.6	20
878	Problems of Evaporative Convection (Review). <i>Fluid Dynamics</i> , 2018, 53, S69-S102.	0.2	37
879	Three-Dimensional Multiple-Relaxation-Time Lattice Boltzmann Simulation of Vapor Condensation on Subcooled Wall. , 2018, , .		0
880	Actuator-Line Model in a Lattice Boltzmann Framework for Wind Turbine Simulations. <i>Journal of Physics: Conference Series</i> , 2018, 1037, 022023.	0.3	12
881	Numerical Investigation of Coalescence-Induced Droplet Jumping from a Hydrophobic Fiber. <i>Langmuir</i> , 2018, 34, 14186-14195.	1.6	8
882	Rarefied transitional flow through diverging nano and microchannels: A TRT lattice Boltzmann study. <i>International Journal of Modern Physics C</i> , 2018, 29, 1850117.	0.8	6
883	GPU Accelerated Multiple-Relaxation-Time Lattice Boltzmann Simulation of Convective Flows in a Porous Media. <i>Frontiers in Mechanical Engineering</i> , 2018, 4, .	0.8	24
884	Higher-order lattice Boltzmann model for thermohydrodynamics. <i>Physical Review E</i> , 2018, 98, .	0.8	26
886	Parallel Algorithms of Multi-relaxation-time Lattice Boltzmann Method. <i>Journal of Physics: Conference Series</i> , 2018, 1087, 022024.	0.3	1

#	ARTICLE	IF	CITATIONS
887	A partial entropic lattice Boltzmann MHD simulation of the Orszagâ€Tang vortex. Radiation Effects and Defects in Solids, 2018, 173, 55-65.	0.4	3
888	Numerical analysis of flow past an elliptic cylinder near a moving wall. Ocean Engineering, 2018, 169, 253-269.	1.9	18
889	Numerical investigation of convective dropwise condensation flow by a hybrid thermal lattice Boltzmann method. Applied Thermal Engineering, 2018, 145, 590-602.	3.0	31
890	Lattice Boltzmann simulation of electro-hydro-dynamic (EHD) natural convection heat transfer in horizontal cylindrical annuli. International Communications in Heat and Mass Transfer, 2018, 98, 106-115.	2.9	20
891	Application of a lattice Boltzmann method to some challenges related to micro-air vehicles. International Journal of Micro Air Vehicles, 2018, 10, 285-299.	1.0	14
892	Gas permeability calculation of tight rocks based on laboratory measurements with non-ideal gas slippage and poroelastic effects considered. International Journal of Rock Mechanics and Minings Sciences, 2018, 112, 16-24.	2.6	14
893	Lattice Boltzmann simulation of tree-shaped fins enhanced melting heat transfer. Numerical Heat Transfer; Part A: Applications, 2018, 74, 1228-1243.	1.2	12
894	Prediction of immiscible two-phase flow properties in a two-dimensional Berea sandstone using the pore-scale lattice Boltzmann simulation. European Physical Journal E, 2018, 41, 124.	0.7	23
895	Lattice kinetic scheme for the Navier-Stokes equations coupled with convection-diffusion equations. Physical Review E, 2018, 98, .	0.8	12
896	Assessing moment-based boundary conditions for the lattice Boltzmann equation: A study of dipole-wall collisions. Computers and Fluids, 2018, 176, 79-96.	1.3	16
897	Lattice Boltzmann simulation of droplets coalescence in a film patterning process on nonideal surfaces. Computers and Fluids, 2018, 176, 68-78.	1.3	6
898	Double MRT Lattice Boltzmann simulation of 3-D MHD natural convection in a cubic cavity with sinusoidal temperature distribution utilizing nanofluid. International Journal of Heat and Mass Transfer, 2018, 126, 489-503.	2.5	86
899	Thermal effects on the sedimentation behavior of elliptical particles. International Journal of Heat and Mass Transfer, 2018, 126, 753-764.	2.5	40
900	Numerical investigation of dilute aerosol particle transport and deposition in oscillating multi-cylinder obstructions. Advanced Powder Technology, 2018, 29, 2003-2018.	2.0	13
901	Eliminating cubic terms in the pseudopotential lattice Boltzmann model for multiphase flow. Physical Review E, 2018, 97, 053308.	0.8	28
902	Numerical Method of Weakly Compressible Poiseuille Flow Using Lattice Boltzmann Method. Defect and Diffusion Forum, 2018, 384, 99-116.	0.4	0
903	Three-dimensional cascaded lattice Boltzmann method: Improved implementation and consistent forcing scheme. Physical Review E, 2018, 97, 053309.	0.8	59
904	Scalable Parallel Algorithm of Multiple-Relaxation-Time Lattice Boltzmann Method with Large Eddy Simulation on Multi-GPUs. Scientific Programming, 2018, 2018, 1-12.	0.5	1

#	ARTICLE	IF	CITATIONS
905	3D Simulation of Self-Compacting Concrete Flow Based on MRT-LBM. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-8.	1.0	7
906	Application of Lattice Boltzmann and Navier-Stokes Methods to NASA's Wall Mounted Hump. , 2018, , .		3
907	Permeability from 3D Porous Media Images: a Fast Two-Step Approach. <i>Transport in Porous Media</i> , 2018, 124, 1017-1033.	1.2	9
908	Non-uniform grid based LBM for the Saint-Venant equations. <i>Journal of Hydrology</i> , 2018, 563, 435-445.	2.3	8
909	Pore-scale simulation and statistical investigation of velocity and drag force distribution of flow through randomly-packed porous media under low and intermediate Reynolds numbers. <i>Computers and Fluids</i> , 2018, 171, 15-28.	1.3	16
910	Simulation of Fluid and Structure Interface with Immersed Boundary's Lattice Boltzmann Method Involving Turbulence Models. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-12.	0.6	0
911	Color-gradient lattice Boltzmann model with nonorthogonal central moments: Hydrodynamic melt-jet breakup simulations. <i>Physical Review E</i> , 2018, 98, 013305.	0.8	29
912	Multiple-Relaxation-Time Lattice Boltzmann Simulation of Flow and Heat Transfer in Porous Volumetric Solar Receivers. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	1.4	23
913	High-order simplified thermal lattice Boltzmann method for incompressible thermal flows. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 1-16.	2.5	31
914	Fourth-order analysis of force terms in multiphase pseudopotential lattice Boltzmann model. <i>Computers and Mathematics With Applications</i> , 2018, 76, 1699-1712.	1.4	10
915	Conservative phase-field lattice-Boltzmann model for ternary fluids. <i>Journal of Computational Physics</i> , 2018, 374, 668-691.	1.9	66
916	Application of a Steady Meandering River with Piers Using a Lattice Boltzmann Sub-Grid Model in Curvilinear Coordinate Grid. <i>Water (Switzerland)</i> , 2018, 10, 615.	1.2	1
917	A single-relaxation-time lattice Boltzmann model for anisotropic advection-diffusion equation based on the diffusion velocity flux formulation. <i>Computational Geosciences</i> , 2018, 22, 1423-1432.	1.2	4
918	Boiling heat transfer on hydrophilic-hydrophobic mixed surfaces: A 3D lattice Boltzmann study. <i>Applied Thermal Engineering</i> , 2018, 142, 846-854.	3.0	51
919	Two-dimensional numerical simulation of chimney fluidization in a granular medium using a combination of discrete element and lattice Boltzmann methods. <i>Physical Review E</i> , 2018, 97, 052902.	0.8	18
920	Multiple-relaxation-time lattice Boltzmann model for simulating double-diffusive convection in fluid-saturated porous media. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 497-502.	2.5	24
921	Rarefaction throttling effect: Influence of the bend in micro-channel gaseous flow. <i>Physics of Fluids</i> , 2018, 30, .	1.6	28
922	Thermal lattice Boltzmann method for multiphase flows. <i>Physical Review E</i> , 2018, 98, 023308.	0.8	23

#	ARTICLE	IF	CITATIONS
923	Fluidic gates simulated with lattice Boltzmann method under different Reynolds numbers. <i>Journal of Computational Science</i> , 2018, 28, 51-58.	1.5	3
924	Consistent lattice Boltzmann modeling of low-speed isothermal flows at finite Knudsen numbers in slip-flow regime. II. Application to curved boundaries. <i>Physical Review E</i> , 2018, 98, 023302.	0.8	24
925	A novel geometry-adaptive Cartesian grid based immersed boundary–lattice Boltzmann method for fluid–structure interactions at moderate and high Reynolds numbers. <i>Journal of Computational Physics</i> , 2018, 375, 22-56.	1.9	69
926	Pore-scale study of heterogeneous chemical reaction for ablation of carbon fibers using the lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 1222-1239.	2.5	27
927	Double-MRT lattice Boltzmann simulation of natural convection in a C-shaped heat exchanger. <i>Powder Technology</i> , 2018, 336, 465-480.	2.1	32
928	Simulation of droplet impacting a square solid obstacle in microchannel with different wettability by using high density ratio pseudopotential multiple-relaxation-time (MRT) lattice Boltzmann method (LBM). <i>Canadian Journal of Physics</i> , 2019, 97, 93-113.	0.4	17
929	Real-time smoke simulation based on vorticity preserving lattice Boltzmann method. <i>Visual Computer</i> , 2019, 35, 1279-1292.	2.5	4
930	A new GPU implementation for lattice-Boltzmann simulations on sparse geometries. <i>Computer Physics Communications</i> , 2019, 235, 258-278.	3.0	18
931	Multiple-Relaxation-Time Lattice Boltzmann scheme for fractional advection–diffusion equation. <i>Computer Physics Communications</i> , 2019, 234, 40-54.	3.0	11
932	Comparative study of the lattice Boltzmann collision models for simulation of incompressible fluid flows. <i>Mathematics and Computers in Simulation</i> , 2019, 156, 158-177.	2.4	14
933	Numerical investigation of vibration-induced droplet shedding on smooth surfaces with large contact angles. <i>Physical Review E</i> , 2019, 100, 023105.	0.8	14
934	Single-shot velocity mapping by rewinding of velocity encoding with Echo-Planar Imaging. <i>Journal of Magnetic Resonance</i> , 2019, 307, 106570.	1.2	3
935	Pore-scale study of counter-current imbibition in strongly water-wet fractured porous media using lattice Boltzmann method. <i>Physics of Fluids</i> , 2019, 31, .	1.6	58
936	Hydro-mechanical modeling of sinkhole occurrence processes in covered karst terrains during a flood. <i>Engineering Geology</i> , 2019, 260, 105249.	2.9	18
937	Pseudoentropic derivation of the regularized lattice Boltzmann method. <i>Physical Review E</i> , 2019, 100, 023302.	0.8	22
938	Improved three-dimensional color-gradient lattice Boltzmann model for immiscible two-phase flows. <i>Physical Review E</i> , 2019, 100, 023301.	0.8	29
939	Multiple Relaxation Time Lattice Boltzmann Models for Multigrid Phase-Field Segmentation of Tumors in 3D Ultrasound Images. <i>SIAM Journal on Imaging Sciences</i> , 2019, 12, 1324-1346.	1.3	6
940	Lattice Boltzmann Methods for Industrial Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 16205-16234.	1.8	25

#	ARTICLE	IF	CITATIONS
941	MRT-Lattice Boltzmann Model for Multilayer Shallow Water Flow. <i>Water (Switzerland)</i> , 2019, 11, 1623.	1.2	7
943	Direct numerical simulation of decaying homogeneous isotropic turbulence " numerical experiments on stability, consistency and accuracy of distinct lattice Boltzmann methods. <i>International Journal of Modern Physics C</i> , 2019, 30, 1950074.	0.8	20
944	Heat transfer dynamics inside the Drop-on-Demand inkjet printhead with a hybrid thermal lattice Boltzmann model. <i>Applied Thermal Engineering</i> , 2019, 159, 113789.	3.0	3
945	Transitional non-Darcy displacement of immiscible fluids due to inertial effect. <i>Journal of Hydrology</i> , 2019, 577, 123934.	2.3	7
946	Sound generation by two dimensional vortex pair motion and the influence of viscosity. <i>Computers and Mathematics With Applications</i> , 2019, 78, 2761-2771.	1.4	4
947	On the coupling of a direct-forcing immersed boundary method and the regularized lattice Boltzmann method for fluid-structure interaction. <i>Computers and Fluids</i> , 2019, 190, 470-484.	1.3	17
948	Numerical investigation of vibration-induced droplet shedding on microstructured superhydrophobic surfaces. <i>Physical Review E</i> , 2019, 99, 063111.	0.8	6
949	The lid-driven right-angled isosceles triangular cavity flow. <i>Journal of Fluid Mechanics</i> , 2019, 875, 476-519.	1.4	17
950	Direct simulation of pore-scale two-phase visco-capillary flow on large digital rock images using a phase-field lattice Boltzmann method on general-purpose graphics processing units. <i>Computational Geosciences</i> , 2019, 23, 849-880.	1.2	38
951	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
952	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
953	2D Simulation of boiling heat transfer on the wall with an improved hybrid lattice Boltzmann model. <i>Applied Thermal Engineering</i> , 2019, 159, 113788.	3.0	35
954	Study of mixed convection in closed enclosure with a ceiling fan. <i>EPJ Applied Physics</i> , 2019, 86, 20902.	0.3	8
955	Interactions of Oil Drops Induced by the Lateral Capillary Force and Surface Tension Gradients. <i>Langmuir</i> , 2019, 35, 14967-14973.	1.6	3
956	Enhancing propulsion performance of a flexible heaving foil through dynamically adjusting its flexibility. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 064002.	1.5	4
957	Lattice Boltzmann models for micro-tomographic pore-spaces. <i>Computers and Fluids</i> , 2019, 193, 104294.	1.3	8
958	Characteristics of drop-on-demand droplet jetting with effect of altered geometry of printhead nozzle. <i>Sensors and Actuators A: Physical</i> , 2019, 298, 111591.	2.0	7
959	Hybrid Lattice Boltzmann-finite difference model for low mach number combustion simulation. <i>Combustion and Flame</i> , 2019, 209, 394-404.	2.8	31



#	ARTICLE	IF	CITATIONS
960	Thermodynamic-consistent multiple-relaxation-time lattice Boltzmann equation model for two-phase hydrocarbon fluids with Peng-Robinson equation of state. International Journal of Heat and Mass Transfer, 2019, 141, 1216-1226.	2.5	10
961	A universal modified MRT LBM for common non-Newtonian fluids and their applications. Mechanics of Materials, 2019, 139, 103187.	1.7	7
962	MRT-LBM modelling of the oscillatory gas slide film damping in the transition regime. Journal of Physics: Conference Series, 2019, 1324, 012046.	0.3	0
963	Universal formulation of central-moments-based lattice Boltzmann method with external forcing for the simulation of multiphysics phenomena. Physics of Fluids, 2019, 31, 117102.	1.6	32
964	Energy-based modeling of micro- and nano-droplet jumping upon coalescence on superhydrophobic surfaces. Applied Physics Letters, 2019, 115, .	1.5	11
965	Kinematics of chromodynamic multicomponent lattice Boltzmann simulation with a large density contrast. Physical Review E, 2019, 100, 043310.	0.8	6
966	Phase-field-based lattice Boltzmann model for liquid-gas-solid flow. Physical Review E, 2019, 100, 033314.	0.8	13
967	Density gradient calculation in a class of multiphase lattice Boltzmann models. Physical Review E, 2019, 100, 043306.	0.8	8
968	The Actuator Line Model in Lattice Boltzmann Frameworks: Numerical Sensitivity and Computational Performance. Journal of Physics: Conference Series, 2019, 1256, 012022.	0.3	9
969	Comprehensive comparison of collision models in the lattice Boltzmann framework: Theoretical investigations. Physical Review E, 2019, 100, 033305.	0.8	77
970	Explicit and viscosity-independent immersed-boundary scheme for the lattice Boltzmann method. Physical Review E, 2019, 100, 033306.	0.8	15
971	Pore-Scale CO <sub>2</sub> Displacement Simulation Based on the Three Fluid Phase Lattice Boltzmann Method. Energy & Fuels, 2019, 33, 10039-10055.	2.5	19
972	Lattice Boltzmann-Discrete Element Modeling Simulation of SCC Flowing Process for Rock-Filled Concrete. Materials, 2019, 12, 3128.	1.3	7
973	A conservation-moment-based implicit finite volume lattice Boltzmann method for steady nearly incompressible flows. Journal of Computational Physics, 2019, 398, 108882.	1.9	9
974	Heat Transfer Enhancement Technique of PCMs and Its Lattice Boltzmann Modeling. , 0, , .		5
975	A comparative study of immersed boundary method and interpolated bounce-back scheme for no-slip boundary treatment in the lattice Boltzmann method: Part I, laminar flows. Computers and Fluids, 2019, 192, 104233.	1.3	14
976	SunwayLB: Enabling Extreme-Scale Lattice Boltzmann Method Based Computing Fluid Dynamics Simulations on Sunway TaihuLight. , 2019, , .		12
978	A new curved boundary treatment for LBM modeling of thermal gaseous microflow in the slip regime. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	13

#	ARTICLE	IF	CITATIONS
979	Petrophysical characterization of tight oil sandstones by microscale X-ray computed tomography. <i>Marine and Petroleum Geology</i> , 2019, 102, 604-614.	1.5	18
980	Oscillatory flows of electro-thermo-convection in eccentric annulus. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 920-932.	2.5	12
981	Lattice Boltzmann model with self-tuning equation of state for multiphase flows. <i>Physical Review E</i> , 2019, 99, 023303.	0.8	19
982	Lattice Boltzmann simulation of immiscible three-phase flows with contact-line dynamics. <i>Physical Review E</i> , 2019, 99, 013308.	0.8	28
983	Numerical Study of Droplet Dynamics on a Solid Surface with Insoluble Surfactants. <i>Langmuir</i> , 2019, 35, 7858-7870.	1.6	25
984	Image-based simulations of absolute permeability with massively parallel pseudo-compressible stabilised finite element solver. <i>Computational Geosciences</i> , 2019, 23, 881-893.	1.2	12
985	A non-iterative immersed boundary-lattice Boltzmann method with boundary condition enforced for fluid-solid flows. <i>Applied Mathematical Modelling</i> , 2019, 76, 362-379.	2.2	27
986	Hybrid Wettability-Induced Heat Transfer Enhancement for Condensation with NonCondensable Gas. <i>Langmuir</i> , 2019, 35, 9430-9440.	1.6	29
987	Numerical study of mixed convection in a ventilated square enclosure with the lattice Boltzmann method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 75, 674-689.	1.2	12
988	Lattice Boltzmann Equations-Based Model of the Convection Melt Flow Driven by the Combined Effects of Buoyancy, Surface Tension and Magnetic Body Forces with Heat Generation. <i>Defect and Diffusion Forum</i> , 0, 390, 133-150.	0.4	0
989	Multiple-relaxation-time lattice Boltzmann model for double-diffusive convection with Dufour and Soret effects. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 713-719.	2.5	37
990	Multiple-relaxation-time lattice Boltzmann model for simulating axisymmetric thermal flows in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 1301-1311.	2.5	9
991	Peristaltic transport of thixotropic fluids: A numerical simulation. <i>Korea Australia Rheology Journal</i> , 2019, 31, 71-79.	0.7	4
992	Comparison of multiphase SPH and LBM approaches for the simulation of intermittent flows. <i>Computational Particle Mechanics</i> , 2019, 6, 695-720.	1.5	13
993	Coalescence-induced droplet detachment on low-adhesion surfaces: A three-phase system study. <i>Physical Review E</i> , 2019, 99, 063102.	0.8	3
994	Stability of the lattice kinetic scheme and choice of the free relaxation parameter. <i>Physical Review E</i> , 2019, 99, 063305.	0.8	30
995	Separate-phase model and its lattice Boltzmann algorithm for liquid-vapor two-phase flows in porous media. <i>Physical Review E</i> , 2019, 99, 053302.	0.8	3
996	Acceleration of phase-field lattice Boltzmann simulation of dendrite growth with thermosolutal convection by the multi-GPUs parallel computation with multiple mesh and time step method. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 054004.	0.8	19

#	ARTICLE	IF	CITATIONS
997	Single droplet condensation in presence of non-condensable gas by a multi-component multi-phase thermal lattice Boltzmann model. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 254-268.	2.5	31
998	Modeling realistic multiphase flows using a non-orthogonal multiple-relaxation-time lattice Boltzmann method. <i>Physics of Fluids</i> , 2019, 31, .	1.6	67
999	Three-dimensional non-orthogonal MRT pseudopotential lattice Boltzmann model for multiphase flows. <i>Computers and Fluids</i> , 2019, 186, 128-140.	1.3	53
1000	Lattice Boltzmann simulation of intraparticle diffusivity in porous pellets with macro-mesopore structure. <i>International Journal of Heat and Mass Transfer</i> , 2019, 138, 1014-1028.	2.5	19
1001	Lattice Boltzmann model for time sub-diffusion equation in Caputo sense. <i>Applied Mathematics and Computation</i> , 2019, 358, 80-90.	1.4	11
1002	Lattice Boltzmann model with adjustable equation of state for coupled thermo-hydrodynamic flows. <i>Journal of Computational Physics</i> , 2019, 392, 227-247.	1.9	12
1003	On the aeroelastic energy transfer from a Lamb dipole to a flexible cantilever. <i>Journal of Fluids and Structures</i> , 2019, 86, 170-184.	1.5	8
1004	Velocity and Drag Force Distribution of Fluid Flow in Mono- and Binary-Sized Particulate Porous Media. , 2019, , .		0
1005	Rayleigh-Bénard type natural convection heat transfer in two-dimensional geometries. <i>Applied Thermal Engineering</i> , 2019, 153, 543-555.	3.0	22
1006	The Effect of Surface Wettability and Wall Roughness on the Residual Saturation for the Drainage Process in Sinusoidal Channels. <i>Transport in Porous Media</i> , 2019, 129, 203-229.	1.2	3
1007	Lattice Boltzmann method for general convection-diffusion equations: MRT model and boundary schemes. <i>Journal of Computational Physics</i> , 2019, 389, 147-163.	1.9	29
1008	Solute transport in shallow water flows using the coupled curvilinear Lattice Boltzmann method. <i>Journal of Hydrology</i> , 2019, 573, 557-567.	2.3	3
1009	Numerical study of droplet dynamics in a steady electric field using a hybrid lattice Boltzmann and finite volume method. <i>Physics of Fluids</i> , 2019, 31, .	1.6	44
1010	Three-dimensional multiple-relaxation-time lattice Boltzmann models for single-phase and solid-liquid phase-change heat transfer in porous media at the REV scale. <i>Applied Thermal Engineering</i> , 2019, 152, 319-337.	3.0	47
1011	Numerical Simulation of Drag Reduction in Microgrooved Substrates Using Lattice-Boltzmann Method. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	18
1012	Maxwell-Stefan-theory-based lattice Boltzmann model for diffusion in multicomponent mixtures. <i>Physical Review E</i> , 2019, 99, 023312.	0.8	25
1013	Multiple-relaxation-time lattice Boltzmann model for simulation of free convection in axisymmetric nanofluid-filled annulus-experimental and numerical observations. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 934-955.	1.6	1
1014	Lattice Boltzmann simulation of convective flow and heat transfer in a nanofluid-filled hollow cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 3075-3094.	1.6	3

#	ARTICLE	IF	CITATIONS
1015	Three-Dimensional Numerical Method for Simulating Large-Scale Free Water Surface by Massive Parallel Computing on a GPU. <i>Water (Switzerland)</i> , 2019, 11, 2121.	1.2	2
1016	A numerical model coupling bubble flow, light transfer, cell motion and growth kinetics for real timescale microalgae cultivation and its applications in flat plate photobioreactors. <i>Algal Research</i> , 2019, 44, 101727.	2.4	13
1017	Inertial Effects During the Process of Supercritical CO <sub>2</sub> Displacing Brine in a Sandstone: Lattice Boltzmann Simulations Based on the Continuumâ€™Surfaceâ€™Force and Geometrical Wetting Models. <i>Water Resources Research</i> , 2019, 55, 11144-11165.	1.7	36
1018	Hydrodynamic Characteristics of Square Heaving Plates with Opening Under Forced Oscillation. <i>China Ocean Engineering</i> , 2019, 33, 637-648.	0.6	2
1019	Origin of spurious oscillations in lattice Boltzmann simulations of oscillatory noncontinuum gas flows. <i>Physical Review E</i> , 2019, 100, 053317.	0.8	6
1020	Phase-field lattice Boltzmann model for dendrites growing and moving in melt flow. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	26
1021	A Low-Rank Algorithm for Weakly Compressible Flow. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, A2795-A2814.	1.3	22
1022	Extensive analysis of the lattice Boltzmann method on shifted stencils. <i>Physical Review E</i> , 2019, 100, 063301.	0.8	24
1023	Implementation of contact angles in pseudopotential lattice Boltzmann simulations with curved boundaries. <i>Physical Review E</i> , 2019, 100, 053313.	0.8	53
1024	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
1025	A mass-conserving lattice Boltzmann method for bubble behavior estimation. <i>Chemical Engineering Science</i> , 2019, 193, 76-88.	1.9	11
1026	On the dissipation mechanism of lattice Boltzmann method when modeling 1-d and 2-d water hammer flows. <i>Computers and Fluids</i> , 2019, 193, 103996.	1.3	3
1027	Role of higher-order Hermite polynomials in the central-moments-based lattice Boltzmann framework. <i>Physical Review E</i> , 2019, 99, 013301.	0.8	27
1028	An extended spectral analysis of the lattice Boltzmann method: modal interactions and stability issues. <i>Journal of Computational Physics</i> , 2019, 380, 311-333.	1.9	45
1029	Investigation of MHD natural convection in a porous media by double MRT lattice Boltzmann method utilizing MWCNTâ€™Fe <sub>3</sub> O <sub>4</sub> /water hybrid nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 1087-1104.	2.5	125
1030	Axisymmetric lattice Boltzmann model for multiphase flows with large density ratio. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 1189-1205.	2.5	74
1031	Influence of complex driving motion on propulsion performance of a heaving flexible foil. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 016011.	1.5	11
1032	Pore-scale lattice Boltzmann simulation of two-component shale gas flow. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 61, 46-70.	2.1	23

#	ARTICLE	IF	CITATIONS
1033	Discrete methods of the energy equations in the pseudo-potential lattice Boltzmann model based simulations. <i>Computers and Fluids</i> , 2019, 179, 645-654.	1.3	15
1034	Multiple-Relaxation-Time Lattice Boltzmann Model for Flow and Convective Heat Transfer in Channel with Porous Media. <i>Journal of Statistical Physics</i> , 2019, 174, 972-991.	0.5	7
1035	DEM investigations of internal erosion: Grain transport in the light of micromechanics. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 339-352.	1.7	42
1036	Lattice Boltzmann equation for mass transfer in multi solvent systems. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 519-528.	2.5	9
1037	Flow-dynamics induced thermal management of crude oil wax melting: Lattice Boltzmann modeling. <i>International Journal of Thermal Sciences</i> , 2019, 137, 675-691.	2.6	12
1038	Absolute permeability calculations in micro-computed tomography models of sandstones by Navier-Stokes and lattice Boltzmann equations. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 415-426.	2.5	41
1039	Simulation of three dimensional MHD natural convection using double MRT Lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 515, 474-496.	1.2	55
1040	Lattice Boltzmann methods for single-phase and solid-liquid phase-change heat transfer in porous media: A review. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 160-197.	2.5	165
1041	An Overview of Numerical Methods for Incompressible Viscous Flow with Moving Particles. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 1255-1282.	6.0	13
1042	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
1043	Determining permeability tensors of porous media: A novel vector kinetic numerical approach. <i>International Journal of Multiphase Flow</i> , 2019, 110, 198-217.	1.6	16
1044	Generalized bounce back boundary condition for the nine velocities two-dimensional lattice Boltzmann scheme. <i>Computers and Fluids</i> , 2019, 193, 103534.	1.3	3
1045	A lattice-BGK model for the Navier-Stokes equations based on a rectangular grid. <i>Computers and Mathematics With Applications</i> , 2019, 78, 1076-1094.	1.4	6
1046	Particle based method and X-ray computed tomography for pore-scale flow characterization in VRFB electrodes. <i>Energy Storage Materials</i> , 2019, 16, 91-96.	9.5	39
1047	A lattice-Boltzmann scheme of the Navier-Stokes equation on a three-dimensional cuboid lattice. <i>Computers and Mathematics With Applications</i> , 2019, 78, 1053-1075.	1.4	9
1048	An inverse design analysis of mesoscopic implementation of non-uniform forcing in MRT lattice Boltzmann models. <i>Computers and Mathematics With Applications</i> , 2019, 78, 1095-1114.	1.4	4
1049	Lateral migration and nonuniform rotation of suspended ellipse in Poiseuille flow. <i>Computers and Mathematics With Applications</i> , 2019, 78, 1142-1153.	1.4	22
1050	Spurious velocity from the cutoff and magnification equation in free energy-based LBM for two-phase flow with a large density ratio. <i>Computers and Mathematics With Applications</i> , 2019, 78, 1166-1181.	1.4	10

#	ARTICLE	IF	CITATIONS
1051	Investigation of local and non-local lattice Boltzmann models for transient heat transfer between non-stationary, disparate media. <i>Computers and Mathematics With Applications</i> , 2020, 79, 174-194.	1.4	4
1052	Comparison of passive scalar transport models coupled with the Lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2020, 79, 55-65.	1.4	13
1053	Power-law fluid flow in driven enclosures with undulation using MRT-lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2020, 79, 100-110.	1.4	11
1054	Simulating vortex induced vibration of an impulsively started flexible filament by an implicit IB-LB coupling scheme. <i>Computers and Mathematics With Applications</i> , 2020, 79, 159-173.	1.4	6
1055	Lattice Boltzmann simulations on irregular grids: Introduction of the NATrium library. <i>Computers and Mathematics With Applications</i> , 2020, 79, 34-54.	1.4	11
1056	Effects of Magnetic Field and Inclination on Natural Convection in a Cavity Filled with Nanofluids by a Double Multiple-Relaxation-Time Thermal Lattice Boltzmann Method. <i>Heat Transfer Engineering</i> , 2020, 41, 252-270.	1.2	8
1057	Two-dimensional off-lattice Boltzmann model for van der Waals fluids with variable temperature. <i>Computers and Mathematics With Applications</i> , 2020, 79, 111-140.	1.4	8
1058	Unsteady flow simulation using the curvilinear multiple-relaxation-time lattice Boltzmann method: Danube River case study. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020, 58, 204-217.	0.7	1
1059	Development of two-dimensional numerical wave tank based on lattice Boltzmann method. <i>Journal of Hydrodynamics</i> , 2020, 32, 116-125.	1.3	5
1060	On anti bounce back boundary condition for lattice Boltzmann schemes. <i>Computers and Mathematics With Applications</i> , 2020, 79, 555-575.	1.4	7
1061	Simulation of stratified flows over a ridge using a lattice Boltzmann model. <i>Environmental Fluid Mechanics</i> , 2020, 20, 1333-1355.	0.7	9
1062	Fluid-Structure Interactions and Unsteady Kinematics of a Low-Reynolds-Number Rotor. <i>AIAA Journal</i> , 2020, 58, 955-967.	1.5	6
1063	A concise python implementation of the lattice Boltzmann method on HPC for geo-fluid flow. <i>Geophysical Journal International</i> , 2020, 220, 682-702.	1.0	9
1064	Modeling the propane combustion process within a micro-catalytic porous combustor by using the lattice Boltzmann method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2659-2677.	2.0	8
1065	The effects of wall superheat and surface wettability on nucleation site interactions during boiling. <i>International Journal of Heat and Mass Transfer</i> , 2020, 146, 118820.	2.5	25
1066	New applications of numerical simulation based on lattice Boltzmann method at high Reynolds numbers. <i>Computers and Mathematics With Applications</i> , 2020, 79, 1718-1741.	1.4	14
1067	A cascaded phase-field lattice Boltzmann model for the simulation of incompressible, immiscible fluids with high density contrast. <i>Computers and Mathematics With Applications</i> , 2020, 79, 1049-1071.	1.4	24
1068	Thermodynamic of collapsing cavitation bubble investigated by pseudopotential and thermal MRT-LBM. <i>Ultrasonics Sonochemistry</i> , 2020, 62, 104873.	3.8	44



#	ARTICLE	IF	CITATIONS
1069	Multiple-relaxation-time lattice Boltzmann simulation of natural convection with multiple heat sources in a rectangular cavity. <i>Canadian Journal of Physics</i> , 2020, 98, 332-343.	0.4	5
1070	A simplified finite volume lattice Boltzmann method for simulations of fluid flows from laminar to turbulent regime, Part I: Numerical framework and its application to laminar flow simulation. <i>Computers and Mathematics With Applications</i> , 2020, 79, 1590-1618.	1.4	14
1071	Simplified lattice Boltzmann method for non-Newtonian power-law fluid flows. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 38-54.	0.9	31
1072	Relevance of Free Jet Model for Soil Erosion by Impinging Jets. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	0.7	13
1073	A parallel GPU-based computational framework for the micromechanical analysis of geotechnical and erosion problems. <i>Computers and Geotechnics</i> , 2020, 120, 103404.	2.3	15
1074	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
1076	Modeling of indoor airflow around thermal manikins by multiple-relaxation-time lattice Boltzmann method with LES approaches. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 77, 215-231.	1.2	12
1077	Validation of the MRT-LBM for three-dimensional free-surface flows: an investigation of the weak compressibility in dam-break benchmarks. <i>Coastal Engineering Journal</i> , 2020, 62, 53-68.	0.7	16
1078	Two-phase flow of CO <sub>2</sub> -brine in a heterogeneous sandstone: Characterization of the rock and comparison of the lattice-Boltzmann, pore-network, and direct numerical simulation methods. <i>Advances in Water Resources</i> , 2020, 135, 103469.	1.7	30
1079	Multiple-relaxation-time lattice Boltzmann model for convection heat transfer in porous media under local thermal non-equilibrium condition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 545, 123794.	1.2	8
1080	Efficient coupling of direct forcing immersed boundary-lattice Boltzmann method and finite element method to simulate fluid-structure interactions. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 545-572.	0.9	7
1081	A novel median dual finite volume lattice Boltzmann method for incompressible flows on unstructured grids. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050173.	0.8	1
1082	Transport phenomena in a differentially heated lid-driven cavity: A study using multi-relaxation-time thermal lattice Boltzmann modeling. <i>Physics of Fluids</i> , 2020, 32, .	1.6	20
1083	A regularized single-phase lattice Boltzmann method for free-surface flows. <i>Computers and Mathematics With Applications</i> , 2020, 80, 2194-2211.	1.4	10
1084	Modeling cross model non-Newtonian fluid flow in porous media. <i>Journal of Contaminant Hydrology</i> , 2020, 235, 103708.	1.6	34
1085	Lattice Boltzmann simulations of thermal flows beyond the Boussinesq and ideal-gas approximations. <i>Physical Review E</i> , 2020, 102, 043304.	0.8	9
1086	Wettability alteration implications on pore-scale multiphase flow in porous media using the lattice Boltzmann method. <i>Advances in Water Resources</i> , 2020, 146, 103790.	1.7	10
1087	Modelling Complex Particle-Fluid Flow with a Discrete Element Method Coupled with Lattice Boltzmann Methods (DEM-LBM). <i>ChemEngineering</i> , 2020, 4, 55.	1.0	11



#	ARTICLE	IF	CITATIONS
1088	Enhancement of nucleate boiling by combining the effects of surface structure and mixed wettability: A lattice Boltzmann study. <i>Applied Thermal Engineering</i> , 2020, 180, 115849.	3.0	21
1089	Cavitation bubble collapse between parallel rigid walls with the three-dimensional multi-relaxation time pseudopotential lattice Boltzmann method. <i>AIP Advances</i> , 2020, 10, .	0.6	16
1090	Lattice Boltzmann Modeling of Condensation Heat Transfer on Downward-Facing Surfaces with Different Wettabilities. <i>Langmuir</i> , 2020, 36, 9204-9214.	1.6	21
1091	Axisymmetric thermal-lattice Boltzmann method for Rayleigh-B�nard convection with anisotropic thermal diffusion. <i>Journal of Computational Science</i> , 2020, 45, 101185.	1.5	5
1092	Chromodynamic multirelaxation-time lattice Boltzmann scheme for fluids with density difference. <i>Physical Review E</i> , 2020, 102, 013309.	0.8	2
1093	Direct numerical simulations of turbulent periodic-hill flows with mass-conserving lattice Boltzmann method. <i>Physics of Fluids</i> , 2020, 32, 115122.	1.6	5
1094	Lattice Boltzmann study of bubble dynamics and heat transfer on a hybrid rough surface with a cavity-pillar structure. <i>International Communications in Heat and Mass Transfer</i> , 2020, 119, 104896.	2.9	17
1095	Numerical Analysis of the Lattice Boltzmann Method for the Boussinesq Equations. <i>Journal of Scientific Computing</i> , 2020, 84, 1.	1.1	1
1096	Pore-scale Modeling of Drainage Displacement Patterns in Association With Geological Sequestration of CO <sub>2</sub> . <i>Water Resources Research</i> , 2020, 56, e2019WR026332.	1.7	10
1097	Scalable parallel finite volume lattice Boltzmann method for thermal incompressible flows on unstructured grids. <i>International Journal of Heat and Mass Transfer</i> , 2020, 160, 120156.	2.5	10
1098	Dual-MRT lattice Boltzmann method combined with experimental measurements of nanofluid's properties for analysis of fin-orientation effect on natural convection heat transfer. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 5017-5035.	1.6	4
1099	Two-dimensional numerical model for predicting fouling shape growth based on immersed boundary method and lattice Boltzmann method. <i>Applied Thermal Engineering</i> , 2020, 179, 115755.	3.0	9
1100	Mesoscopic simulation of three-dimensional pool boiling based on a phase-change cascaded lattice Boltzmann method. <i>Physics of Fluids</i> , 2020, 32, .	1.6	63
1101	Methods for Studying Two-Phase Flows in Porous Media: Numerical Simulation and Experiments on Microfluidics Chips. , 2020, , .		1
1102	Simulations for the flow of viscoplastic fluids in a cavity driven by the movement of walls by Lattice Boltzmann Method. <i>Korea Australia Rheology Journal</i> , 2020, 32, 213-231.	0.7	3
1103	A Graphics Process Unit-Based Multiple-Relaxation-Time Lattice Boltzmann Simulation of Non-Newtonian Fluid Flows in a Backward Facing Step. <i>Computation</i> , 2020, 8, 83.	1.0	17
1104	Enhanced multi-relaxation-time lattice Boltzmann model by entropic stabilizers. <i>Physical Review E</i> , 2020, 102, 023307.	0.8	7
1105	Simulation of Dendritic Painting. <i>Computer Graphics Forum</i> , 2020, 39, 597-606.	1.8	4

#	ARTICLE	IF	CITATIONS
1106	Study on the Collapse Process of Cavitation Bubbles Near the Concave Wall by Lattice Boltzmann Method Pseudo-Potential Model. <i>Energies</i> , 2020, 13, 4398.	1.6	8
1107	Simulation of Boiling Heat Transfer at Different Reduced Temperatures with an Improved Pseudopotential Lattice Boltzmann Method. <i>Symmetry</i> , 2020, 12, 1358.	1.1	6
1108	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
1109	Numerical Study on Bubble Rising in Complex Channels Saturated with Liquid Using a Phase-Field Lattice-Boltzmann Method. <i>Processes</i> , 2020, 8, 1608.	1.3	7
1110	Numerical analysis of two-phase electrohydrodynamic flows in the presence of surface charge convection. <i>Physics of Fluids</i> , 2020, 32, .	1.6	25
1111	Assessment of weak compressibility in actuator line simulations of wind turbine wakes. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 062057.	0.3	2
1112	Linear stability and isotropy properties of athermal regularized lattice Boltzmann methods. <i>Physical Review E</i> , 2020, 102, 053305.	0.8	23
1113	Simulations of Aerodynamic Separated Flows Using the Lattice Boltzmann Solver XFlow. <i>Energies</i> , 2020, 13, 5146.	1.6	25
1114	Multiphysics flow simulations using D3Q19 lattice Boltzmann methods based on central moments. <i>Physics of Fluids</i> , 2020, 32, .	1.6	39
1115	Compressible lattice Boltzmann methods with adaptive velocity stencils: An interpolation-free formulation. <i>Physics of Fluids</i> , 2020, 32, 116102.	1.6	18
1116	Study of Periodic Thermal Exchange in a Cavity Ventilated by Displacement. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 5751-5768.	1.7	3
1117	A highly accurate GPU Lattice Boltzmann method with directional interpolation for the probability distribution functions. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 1778-1797.	0.9	4
1118	Impact and penetration dynamics of inkjet droplet within paper-like fibrous substrate by mesoscopic modeling. <i>Computational Mechanics</i> , 2020, 66, 391-404.	2.2	8
1119	The impact of heterogeneous pin based micro-structures on flow dynamics and heat transfer in micro-scale heat exchangers. <i>Physics of Fluids</i> , 2020, 32, .	1.6	16
1120	Numerical simulation of the downwash flow field and droplet movement from an unmanned helicopter for crop spraying. <i>Computers and Electronics in Agriculture</i> , 2020, 174, 105468.	3.7	22
1121	Lattice Boltzmann simulations for complex geometries on high-performance computers. <i>CEAS Aeronautical Journal</i> , 2020, 11, 745-766.	0.9	9
1122	A mesoscopic coupling scheme for solute transport in surface water using the lattice boltzmann method. <i>Journal of Hydrology</i> , 2020, 588, 125062.	2.3	4
1123	Lattice Boltzmann simulation and fractal analysis of effective thermal conductivity in porous media. <i>Applied Thermal Engineering</i> , 2020, 180, 115562.	3.0	24

#	ARTICLE	IF	CITATIONS
1124	An efficient framework for particle-fluid interaction using Discrete Element Lattice Boltzmann Method: Coupling scheme and periodic boundary condition. <i>Computers and Fluids</i> , 2020, 208, 104613.	1.3	12
1125	Optimizing free parameters in the D3Q19 Multiple-Relaxation lattice Boltzmann methods to simulate under-resolved turbulent flows. <i>Journal of Computational Science</i> , 2020, 45, 101170.	1.5	8
1126	Hybrid datasets: Incorporating experimental data into Lattice Boltzmann simulations. <i>Engineering Reports</i> , 2020, 2, e12177.	0.9	0
1127	The hydrodynamic FORCE of fluid-structure interaction interface in lattice Boltzmann simulations. <i>International Journal of Modern Physics B</i> , 2020, 34, 2040085.	1.0	2
1128	Analysis and reduction of spurious noise generated at grid refinement interfaces with the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2020, 418, 109645.	1.9	29
1129	Predicting the Propagation of Acoustic Waves using Deep Convolutional Neural Networks. , 2020, , .		7
1130	Boundary Scheme for a Discrete Kinetic Approximation of the Navier-Stokes Equations. <i>Journal of Scientific Computing</i> , 2020, 82, 1.	1.1	5
1131	Homogenization of Dissolution and Enhanced Precipitation Induced by Bubbles in Multiphase Flow Systems. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087163.	1.5	21
1132	Study of thermal comfort: numerical simulation in a closed cavity using the lattice Boltzmann method. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	3
1133	Phase-field-based lattice Boltzmann model for immiscible incompressible N -phase flows. <i>Physical Review E</i> , 2020, 101, 063310.	0.8	11
1134	Lattice Boltzmann simulations of magnetic particles in a three-dimensional microchannel. <i>Powder Technology</i> , 2020, 373, 555-568.	2.1	5
1135	Discrete effects on boundary conditions of the lattice Boltzmann method for fluid flows with curved no-slip walls. <i>Physical Review E</i> , 2020, 101, 063307.	0.8	7
1136	Impact of collision models on the physical properties and the stability of lattice Boltzmann methods. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190397.	1.6	38
1137	Chemical-potential multiphase lattice Boltzmann method with superlarge density ratios. <i>Physical Review E</i> , 2020, 102, 013303.	0.8	30
1138	Lattice Boltzmann model for dense suspended particles based on improved bounce-back method. <i>Computers and Mathematics With Applications</i> , 2020, 80, 552-567.	1.4	7
1139	A notion of non-negativity preserving relaxation for a mono-dimensional three velocities scheme with relative velocity. <i>Journal of Computational Science</i> , 2020, 47, 101181.	1.5	4
1140	Lattice-Boltzmann hydrodynamics of single-square-grid generated turbulence - a partial entropic stabilisation approach. <i>Computers and Mathematics With Applications</i> , 2020, 80, 1301-1326.	1.4	2
1141	Central-Moments-Based Lattice Boltzmann for Associating Fluids: A New Integrated Approach. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2900-2913.	1.2	7

#	ARTICLE	IF	CITATIONS
1142	Hydrodynamic behavior of two-dimensional tandem-arranged flapping flexible foils in uniform flow. <i>Physics of Fluids</i> , 2020, 32, 021903.	1.6	19
1143	Effects of contact angle hysteresis on drop manipulation using surface acoustic waves. <i>Theoretical and Computational Fluid Dynamics</i> , 2020, 34, 145-162.	0.9	13
1144	Numerical Analysis of Droplet Motion over a Flat Plate Due to Surface Acoustic Waves. <i>Microgravity Science and Technology</i> , 2020, 32, 647-660.	0.7	17
1145	Rectangular lattice Boltzmann method using multiple relaxation time collision operator in two and three dimensions. <i>Computers and Fluids</i> , 2020, 202, 104492.	1.3	6
1146	Comparison of existing and extended boundary conditions for the simulation of rarefied gas flows using the Lattice Boltzmann method. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050070.	0.8	7
1147	Discretization limits of lattice Boltzmann methods for studying immiscible two-phase flow in porous media. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 1162-1197.	0.9	4
1148	Lattice Boltzmann equation with Overset method for moving objects in two-dimensional flows. <i>Journal of Computational Physics</i> , 2020, 407, 109223.	1.9	10
1149	Numerical Modelling of Microchannel Gas Flows in the Transition Flow Regime Using the Cascaded Lattice Boltzmann Method. <i>Entropy</i> , 2020, 22, 41.	1.1	7
1150	A curved lattice Boltzmann boundary scheme for thermal convective flows with Neumann boundary condition. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119345.	2.5	21
1151	Effects of hysteresis window on contact angle hysteresis behaviour at large Bond number. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 327-337.	5.0	25
1152	Effects of size and elasticity on the relation between flow velocity and wall shear stress in side-wall aneurysms: A lattice Boltzmann-based computer simulation study. <i>PLoS ONE</i> , 2020, 15, e0227770.	1.1	11
1153	The effects of surface orientation, heater size, wettability, and subcooling on the critical heat flux enhancement in pool boiling. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119230.	2.5	16
1154	A lattice Boltzmann study of 2D steady and unsteady flows around a confined cylinder. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	4
1155	Zonal Flow Solver (ZFS): a highly efficient multi-physics simulation framework. <i>International Journal of Computational Fluid Dynamics</i> , 2020, 34, 458-485.	0.5	21
1156	Lattice Boltzmann model for ternary fluids with solid particles. <i>Physical Review E</i> , 2020, 101, 033307.	0.8	12
1157	Consistent vortex initialization for the athermal lattice Boltzmann method. <i>Physical Review E</i> , 2020, 101, 043306.	0.8	11
1158	Magnetic regulating the phase change process of Fe <sub>3</sub> O <sub>4</sub> -paraffin wax nanocomposites in a square cavity. <i>Energy Conversion and Management</i> , 2020, 213, 112829.	4.4	32
1159	Multi Relaxation Time Lattice Boltzmann Method Simulation of Natural Convection Combined with Surface Radiation in a Square Open Cavity from Three Discrete Heat Sources. <i>Heat Transfer Engineering</i> , 2021, 42, 706-722.	1.2	6

#	ARTICLE	IF	CITATIONS
1160	Assessment of multiple relaxation time-lattice Boltzmann method framework for non-Newtonian fluid flow simulations. <i>European Journal of Mechanics, B/Fluids</i> , 2021, 85, 322-334.	1.2	17
1161	A decoupled and stabilized lattice Boltzmann method for multiphase flow with large density ratio at high Reynolds and Weber numbers. <i>Journal of Computational Physics</i> , 2021, 426, 109933.	1.9	12
1162	Coupled confined phase behavior and transport of methane in slit nanopores. <i>Chemical Engineering Journal</i> , 2021, 404, 126502.	6.6	29
1163	An immersed interface-lattice Boltzmann method for fluid-structure interaction. <i>Journal of Computational Physics</i> , 2021, 428, 109807.	1.9	13
1164	Lattice-Boltzmann simulation of creeping generalized Newtonian flows: Theory and guidelines. <i>Journal of Computational Physics</i> , 2021, 429, 109943.	1.9	6
1165	Paddling motion of a free-swimming jellyfish and Lagrangian coherent structure analysis. <i>Applied Mathematical Modelling</i> , 2021, 95, 244-278.	2.2	2
1166	Under-resolved and large eddy simulations of a decaying Taylor-Green vortex with the cumulant lattice Boltzmann method. <i>Theoretical and Computational Fluid Dynamics</i> , 2021, 35, 169-208.	0.9	18
1167	Fluid-fluid interactions in pseudopotential lattice Boltzmann models: Effects of model schemes and fluid properties. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 1578-1605.	0.9	0
1168	The lattice Boltzmann method for nearly incompressible flows. <i>Journal of Computational Physics</i> , 2021, 431, 109713.	1.9	52
1169	Phase-field lattice Boltzmann method with two-relaxation-time model for dendrite growth of a binary alloy with melt convection. <i>Computational Materials Science</i> , 2021, 186, 110070.	1.4	17
1170	Lattice Boltzmann simulation of dropwise condensation on the microstructured surfaces with different wettability and morphologies. <i>International Journal of Thermal Sciences</i> , 2021, 160, 106643.	2.6	18
1171	Simulations of Ga melting based on multiple-relaxation time lattice Boltzmann method performed with CUDA in Python. <i>Mathematics and Computers in Simulation</i> , 2021, 181, 170-191.	2.4	3
1172	Large-eddy simulation of turbulent flows over an urban building array with the ABLE-LBM and comparison with 3D MRI observed data sets. <i>Environmental Fluid Mechanics</i> , 2021, 21, 287-304.	0.7	9
1173	A review of phase change heat transfer in shape-stabilized phase change materials (ss-PCMs) based on porous supports for thermal energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110127.	8.2	307
1174	Investigation of wake characteristics of the MEXICO wind turbine using lattice Boltzmann method. <i>Wind Energy</i> , 2021, 24, 116-132.	1.9	7
1175	The LBPM software package for simulating multiphase flow on digital images of porous rocks. <i>Computational Geosciences</i> , 2021, 25, 871-895.	1.2	36
1176	A Direct Effective Viscosity Approach for Modeling and Simulating Bingham Fluids with the Cumulant Lattice Boltzmann Method. <i>Open Journal of Fluid Dynamics</i> , 2021, 11, 34-54.	0.3	1
1177	Lattice Boltzmann method code. , 2021, , 463-480.		0

#	ARTICLE	IF	CITATIONS
1178	A comparative study of three-dimensional discrete velocity set in LBM for turbulent flow over bluff body. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	4
1179	Effect of surface tension on late-time growth of high-Reynolds-number Rayleigh-Taylor instability. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 1-10.	0.2	2
1180	Evaporation-driven nanoparticles motion and deposition on a textured surface in the inkjet process. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 644-655.	1.5	1
1181	A numerical study of fish adaption behaviors in complex environments with a deep reinforcement learning and immersed boundary lattice Boltzmann method. <i>Scientific Reports</i> , 2021, 11, 1691.	1.6	25
1182	Achieving thermodynamic consistency in a class of free-energy multiphase lattice Boltzmann models. <i>Physical Review E</i> , 2021, 103, 013304.	0.8	13
1183	Aerodynamic and Aero-acoustics Performance of Unsteady Kinematics Applied to a Rotor Operating at Low-Reynolds Number. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 63-70.	0.3	0
1184	Evaluation of the Single-Population Lattice Boltzmann Method for One-Dimensional Compressible Flows. , 2021, , .		0
1185	Effects of application height and crosswind on the crop spraying performance of unmanned helicopters. <i>Computers and Electronics in Agriculture</i> , 2021, 181, 105961.	3.7	15
1186	Effect of non-condensable gas on a collapsing cavitation bubble near solid wall investigated by multicomponent thermal MRT-LBM*. <i>Chinese Physics B</i> , 2021, 30, 024701.	0.7	3
1187	Study on the Collapse Process of Cavitation Bubbles Including Heat Transfer by Lattice Boltzmann Method. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 219.	1.2	11
1188	Lattice Boltzmann modeling and simulation of forced-convection boiling on a cylinder. <i>Physics of Fluids</i> , 2021, 33, .	1.6	37
1189	Effects of Cracks and Geometric Parameters on the Flow in Shale. <i>ACS Omega</i> , 2021, 6, 4619-4629.	1.6	2
1190	Two-Dimensional Numerical Analysis of Non-Darcy Flow Using the Lattice Boltzmann Method: Pore-Scale Heterogeneous Effects. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	0.8	3
1191	Time-Periodic Cooling of Rayleigh-Bénard Convection. <i>Fluids</i> , 2021, 6, 87.	0.8	3
1192	Nonlinear fourth order Taylor expansion of lattice Boltzmann schemes. <i>Asymptotic Analysis</i> , 2022, 127, 297-337.	0.2	4
1193	Simple extended lattice Boltzmann methods for incompressible viscous single-phase and two-phase fluid flows. <i>Physics of Fluids</i> , 2021, 33, .	1.6	12
1194	Discrete effects on boundary conditions of the lattice Boltzmann method for convection-diffusion equations with curved geometries. <i>International Communications in Heat and Mass Transfer</i> , 2021, 122, 105130.	2.9	4
1195	Axisymmetric lattice Boltzmann formulation for mixed convection with anisotropic thermal diffusion and associated bubble breakdown. <i>Physics of Fluids</i> , 2021, 33, 037126.	1.6	5

#	ARTICLE	IF	CITATIONS
1196	Droplet impact on nano-textured bumps: Topology effects. <i>Computers and Fluids</i> , 2021, 218, 104844.	1.3	2
1197	Influence of stagnant zones on solute transport in heterogeneous porous media at the pore scale. <i>Physics of Fluids</i> , 2021, 33, .	1.6	16
1198	Control of a sedimenting elliptical particle by electromagnetic forces. <i>Physics of Fluids</i> , 2021, 33, 033305.	1.6	6
1199	Preferential imbibition in a dual-permeability pore network. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	28
1200	Pore-scale study of miscible density-driven mixing flow in porous media. <i>Physics of Fluids</i> , 2021, 33, .	1.6	13
1201	Improved multiple-relaxation-time lattice Boltzmann model for Allen-Cahn equation. <i>International Journal of Modern Physics C</i> , 2021, 32, 2150086.	0.8	1
1202	Optimal surface-tension isotropy in the Rothman-Keller color-gradient lattice Boltzmann method for multiphase flow. <i>Physical Review E</i> , 2021, 103, 033302.	0.8	8
1203	An investigation of the characteristics of dam-break flood in a confluence channel based on the lattice Boltzmann method. <i>AIP Advances</i> , 2021, 11, 045320.	0.6	1
1204	Non-Newtonian power-law fluid flow over obstacles embedded inside a cavity. <i>Physics of Fluids</i> , 2021, 33, .	1.6	11
1205	A dissolution model of alite coupling surface topography and ions transport under different hydrodynamics conditions at microscale. <i>Cement and Concrete Research</i> , 2021, 142, 106377.	4.6	6
1206	Spurious interface and boundary behaviour beyond physical solutions in lattice Boltzmann schemes. <i>Journal of Computational Physics</i> , 2021, 431, 109986.	1.9	8
1207	Improved thermal multiple-relaxation-time lattice Boltzmann model for liquid-vapor phase change. <i>Physical Review E</i> , 2021, 103, 043308.	0.8	17
1208	Lattice Boltzmann analysis for electro-thermo-convection with a melting boundary in horizontal concentric annuli. <i>Physics of Fluids</i> , 2021, 33, .	1.6	16
1209	Computational appraisal of fluid flow behavior in two-sided oscillating lid-driven cavities. <i>International Journal of Mechanical Sciences</i> , 2021, 196, 106303.	3.6	24
1210	Methods of Colloidal Simulation. , 2021, , 120-154.		2
1211	Cross-platform programming model for many-core lattice Boltzmann simulations. <i>PLoS ONE</i> , 2021, 16, e0250306.	1.1	23
1212	Acoustic wave propagation and its application to fluid structure interaction using the Cumulant Lattice Boltzmann Method. <i>Computers and Mathematics With Applications</i> , 2021, 87, 91-106.	1.4	9
1213	Enhanced single-node lattice Boltzmann boundary condition for fluid flows. <i>Physical Review E</i> , 2021, 103, 053308.	0.8	11



#	ARTICLE	IF	CITATIONS
1214	Pore-scale conjugate heat transfer of nanofluids within fibrous medium with a double MRT lattice Boltzmann model. <i>International Journal of Thermal Sciences</i> , 2021, 163, 106804.	2.6	4
1215	Simplified method for simulation of incompressible viscous flows inspired by the lattice Boltzmann method. <i>Physical Review E</i> , 2021, 103, 053311.	0.8	1
1216	Pore-scale study on heat and mass transfer of electrothermal swing adsorption process into X-ray tomography reconstructed activated carbon fibre felt. <i>Chemical Engineering Science</i> , 2021, 235, 116494.	1.9	3
1217	Reduction-consistent multiple-relaxation-time lattice Boltzmann equation method for wall bounded N immiscible incompressible fluids. <i>Computers and Fluids</i> , 2021, 221, 104896.	1.3	1
1218	Central moment lattice Boltzmann method on a rectangular lattice. <i>Physics of Fluids</i> , 2021, 33, 057110.	1.6	7
1219	Lattice Boltzmann study of nucleation site interaction and nucleate boiling heat transfer on a hybrid surface with multiple cavity-pillar structures. <i>International Journal of Thermal Sciences</i> , 2021, 163, 106860.	2.6	23
1220	A simulation method for muscle-driven swimming and its applications. <i>Physics of Fluids</i> , 2021, 33, 061904.	1.6	4
1221	Lattice Boltzmann simulation of water flow through rough nanopores. <i>Chemical Engineering Science</i> , 2021, 236, 116329.	1.9	8
1222	Mesoscopic Lattice Boltzmann Modeling of the Liquid-Vapor Phase Transition. <i>Physical Review Letters</i> , 2021, 126, 244501.	2.9	29
1223	Prediction of three-phase relative permeabilities of Berea sandstone using lattice Boltzmann method. <i>Physics of Fluids</i> , 2021, 33, .	1.6	12
1224	Numerical investigation of the effects of proppant embedment on fracture permeability and well production in Queensland coal seam gas reservoirs. <i>International Journal of Coal Geology</i> , 2021, 242, 103689.	1.9	22
1225	Lattice Boltzmann Study of the Steady-State Relative Permeabilities in Porous Media. <i>Advances in Applied Mathematics and Mechanics</i> , 2021, 13, 619-644.	0.7	0
1226	Kinetic boundary schemes of axisymmetric multi-relaxation-time lattice Boltzmann model for microscale gas flows in microtube. <i>Physica Scripta</i> , 2021, 96, 105207.	1.2	2
1227	A comparison of semi-Lagrangian vortex method and lattice Boltzmann method for incompressible flows. <i>Computers and Fluids</i> , 2021, 224, 104946.	1.3	5
1228	Study of wall wettability effects on cavitation bubble collapse using lattice Boltzmann method. <i>AIP Advances</i> , 2021, 11, .	0.6	7
1229	Direct aeroacoustic simulation with a cumulant Lattice-Boltzmann model. <i>Computers and Fluids</i> , 2021, 224, 104970.	1.3	6
1230	A new fractal apparent permeability model for liquid flow in tortuous nanopores from lattice Boltzmann simulations to theoretical model. <i>Fractals</i> , 0, , .	1.8	0
1231	Kinetic-Based Multiphase Flow Simulation. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2021, 27, 3318-3334.	2.9	9

#	ARTICLE	IF	CITATIONS
1232	Numerical and experimental prediction of free surface flow of shear-thinning fluids. <i>Computers and Fluids</i> , 2021, 225, 104969.	1.3	7
1233	Alternative wetting boundary condition for the chemical-potential-based free-energy lattice Boltzmann model. <i>Physical Review E</i> , 2021, 104, 015303.	0.8	5
1234	A lattice Boltzmann model for the viscous shallow water equations with source terms. <i>Journal of Hydrology</i> , 2021, 598, 126428.	2.3	4
1235	Multiple-relaxation-time lattice Boltzmann analysis of entropy generation in a hot-block-inserted square cavity for different Prandtl numbers. <i>International Journal of Thermal Sciences</i> , 2021, 165, 106948.	2.6	12
1236	Nucleate boiling enhancement by structured surfaces with distributed wettability-modified regions: A lattice Boltzmann study. <i>Applied Thermal Engineering</i> , 2021, 194, 117130.	3.0	22
1237	The study of nucleation site interactions on the mixed wettability rough surface. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105372.	2.9	4
1238	Onsager-regularized lattice Boltzmann method: A nonequilibrium thermodynamics-based regularized lattice Boltzmann method. <i>Physical Review E</i> , 2021, 104, 015313.	0.8	5
1239	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
1240	Lattice Boltzmann method for adsorption under stationary and transient conditions: Interplay between transport and adsorption kinetics in porous media. <i>Physical Review E</i> , 2021, 104, 015314.	0.8	5
1241	Lattice Boltzmann simulation of three-phase flows with moving contact lines on curved surfaces. <i>Physical Review E</i> , 2021, 104, 015310.	0.8	16
1242	Hybrid lattice-Boltzmann finite-difference simulation of ternary fluids near immersed solid objects of general shapes. <i>Physics of Fluids</i> , 2021, 33, .	1.6	7
1243	Three-dimensional single framework multicomponent lattice Boltzmann equation method for vesicle hydrodynamics. <i>Physics of Fluids</i> , 2021, 33, .	1.6	3
1244	Study on Deposition Characteristics of Microparticles in Terminal Pulmonary Acini by IB&LBM. <i>Micromachines</i> , 2021, 12, 957.	1.4	3
1245	Enhancing dropwise condensation on downward-facing surfaces through the synergistic effects of surface structure and mixed wettability. <i>Physics of Fluids</i> , 2021, 33, .	1.6	15
1246	Linear and brute force stability of orthogonal moment multiple-relaxation-time lattice Boltzmann methods applied to homogeneous isotropic turbulence. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200405.	1.6	7
1247	Analytic solutions of the variable force effect in lattice Boltzmann methods for Poiseuille flows. <i>Physics of Fluids</i> , 2021, 33, 083610.	1.6	3
1248	Lattice Boltzmann Simulation of Multicomponent Porous Media Flows With Chemical Reaction. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	4
1249	Recursive finite-difference Lattice Boltzmann schemes. <i>Computers and Mathematics With Applications</i> , 2021, 96, 95-108.	1.4	3

#	ARTICLE	IF	CITATIONS
1250	Late-time description of immiscible Rayleigh-Taylor instability: A lattice Boltzmann study. <i>Physics of Fluids</i> , 2021, 33, .	1.6	21
1251	Investigation into Yaw Motion Influence of Horizontal-Axis Wind Turbine on Wake Flow Using LBM-LES. <i>Energies</i> , 2021, 14, 5248.	1.6	6
1252	A Pseudopotential Lattice Boltzmann Method for Simulation of Two-Phase Flow Transport in Porous Medium at High-Density and High-Viscosity Ratios. <i>Geofluids</i> , 2021, 2021, 1-18.	0.3	10
1253	A unified lattice Boltzmann model and application to multiphase flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200397.	1.6	23
1254	Topology optimization for incompressible viscous fluid flow using the lattice kinetic scheme. <i>Computers and Mathematics With Applications</i> , 2021, 97, 251-266.	1.4	5
1255	A numerical investigation of bubble dynamics in a ferrofluid by improved multicomponent multiphase pseudopotential lattice Boltzmann model coupled with magnetic field solver. <i>Physics of Fluids</i> , 2021, 33, 097110.	1.6	4
1256	A Strong-Form Off-Lattice Boltzmann Method for Irregular Point Clouds. <i>Symmetry</i> , 2021, 13, 1802.	1.1	2
1257	Axisymmetric lattice Boltzmann model with slip boundary conditions for liquid flows in microtube. <i>European Journal of Mechanics, B/Fluids</i> , 2021, 89, 430-444.	1.2	4
1258	Three-Dimensional Central Moment Lattice Boltzmann Method on a Cuboid Lattice for Anisotropic and Inhomogeneous Flows. <i>Fluids</i> , 2021, 6, 326.	0.8	8
1259	A review of rarefied gas flow in irregular micro/nanochannels. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 113002.	1.5	4
1260	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
1261	Investigation on the effect of convective outflow boundary condition on the bubbles growth, rising and breakup dynamics of nucleate boiling. <i>International Journal of Thermal Sciences</i> , 2021, 167, 106877.	2.6	19
1262	Fluid-wall interactions in pseudopotential lattice Boltzmann models. <i>Physical Review E</i> , 2021, 104, 035301.	0.8	3
1263	Pool boiling enhancement through induced vibrations in the liquid pool due to moving solid bodies-A numerical study using lattice Boltzmann method (LBM). <i>Physics of Fluids</i> , 2021, 33, .	1.6	8
1264	Transition to chaos in a two-sided collapsible channel flow. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	1.4	21
1265	Simulations of surface acoustic wave interactions on a sessile droplet using a three-dimensional multiphase lattice Boltzmann model. <i>Physical Review E</i> , 2021, 104, 045301.	0.8	8
1266	Flow structure and heat transfer of transpiration cooling by using a LBM: The effects of wall blowing and spatially nonuniform injection. <i>International Communications in Heat and Mass Transfer</i> , 2021, 127, 105491.	2.9	7
1267	Development of a coupled simplified lattice Boltzmann method for thermal flows. <i>Computers and Fluids</i> , 2021, 229, 105042.	1.3	11

#	ARTICLE	IF	CITATIONS
1268	Enhancement of vapor condensation heat transfer on the micro- and nano-structured superhydrophobic surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2021, 177, 121526.	2.5	22
1269	A numerical study on the sedimentation of adhesive particles in viscous fluids using LBM-LES-DEM. <i>Powder Technology</i> , 2021, 391, 467-478.	2.1	14
1270	Mesoscopic lattice Boltzmann simulation of droplet jumping condensation heat transfer on the microstructured surface. <i>International Communications in Heat and Mass Transfer</i> , 2021, 127, 105567.	2.9	10
1271	Lattice-Boltzmann model for van der Waals fluids with liquid-vapor phase transition. <i>International Journal of Heat and Mass Transfer</i> , 2021, 179, 121741.	2.5	8
1272	Curved boundary conditions of the lattice Boltzmann method for simulating microgaseous flows in the slip flow regime. <i>Computers and Fluids</i> , 2021, 230, 105117.	1.3	4
1273	Numerical coffee-ring patterns with new interfacial schemes in 3D hybrid LB-LE model. <i>Powder Technology</i> , 2021, 392, 130-140.	2.1	3
1274	Phase-field-lattice Boltzmann method for dendritic growth with melt flow and thermosolutal convection-diffusion. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 385, 114026.	3.4	13
1275	Numerical study of bubble behaviors and heat transfer in pool boiling of water/NaCl solutions using the lattice Boltzmann method. <i>International Journal of Thermal Sciences</i> , 2021, 170, 107158.	2.6	11
1276	Eulerian-Lagrangian and Eulerian-Eulerian approaches for the simulation of particle-laden free surface flows using the lattice Boltzmann method. <i>Journal of Computational and Applied Mathematics</i> , 2021, 398, 113672.	1.1	2
1277	A linear stability analysis of compressible hybrid lattice Boltzmann methods. <i>Journal of Computational Physics</i> , 2021, 446, 110649.	1.9	22
1278	Utilization of pressure wave-dynamics in accelerating convergence of the lattice-Boltzmann method for steady and unsteady flows. <i>Applied Mathematics and Computation</i> , 2021, 411, 126498.	1.4	0
1279	Insights into scale translation of methane transport in nanopores. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104220.	2.1	15
1280	Nonlinear Thermo-Mechanical Full Coupling of Aluminum Oxide Particles Transport in Electrolytic Bath Using Lattice Boltzmann Method. <i>Jom</i> , 2021, 73, 823-833.	0.9	2
1281	Comprehensive hydrothermal analysis of an inclined mini-channel with fin array: by dual/multi-relaxation-time LBM and experimental process on SiO <sub>2</sub> -glycol rheological/thermal characteristics. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 2405-2429.	1.6	2
1282	Efficient flow simulation on high performance computers. , 2005, , 285-305.		1
1283	Massively Parallel Lattice Boltzmann Simulations of Turbulent Flow over and Inside Porous Media. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2021, , 513-527.	0.2	1
1284	The Lattice-Boltzmann Method for Multiphase Fluid Flow Simulations and Euler-Lagrange Large-Eddy Simulations. , 2007, , 181-228.		4
1285	Taylor Expansion Method for Linear Lattice Boltzmann Schemes with an External Force: Application to Boundary Conditions. <i>Lecture Notes in Computational Science and Engineering</i> , 2014, , 89-107.	0.1	4

#	ARTICLE	IF	CITATIONS
1286	Kinetic Modeling and Simulation of Environmental and Civil Engineering Flow Problems. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2009, , 341-350.	0.2	1
1287	An Explicit Model for Three-Dimensional Fluid-Structure Interaction using LBM and p-FEM. Lecture Notes in Computational Science and Engineering, 2011, , 285-325.	0.1	3
1288	Large-Eddy and Detached-Eddy Simulation of the Flow Around High-Lift Configurations. , 2003, , 21-41.		1
1289	Applications of the Lattice Boltzmann Method to Complex and Turbulent Flows. Lecture Notes in Computational Science and Engineering, 2002, , 123-130.	0.1	12
1290	Lattice Boltzmann modeling of transport phenomena in fuel cells and flow batteries. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 555-574.	1.5	146
1291	Cascaded lattice Boltzmann method for thermal flows on standard lattices. International Journal of Thermal Sciences, 2018, 132, 368-377.	2.6	18
1292	An immersed boundary-lattice Boltzmann method for gaseous slip flow. Physics of Fluids, 2020, 32, .	1.6	11
1293	Investigation on boundary schemes in lattice Boltzmann simulations of boiling heat transfer involving curved surfaces. Physics of Fluids, 2020, 32, 063305.	1.6	24
1294	Dissolution process of a single bubble under pressure with a large-density-ratio multicomponent multiphase lattice Boltzmann model. Physical Review E, 2020, 102, 063306.	0.8	18
1295	Lock-on of vortex shedding to a pair of synthetic jets with phase difference. Physical Review Fluids, 2017, 2, .	1.0	22
1296	Investigation of shear rates of rolling adhesion on leukocytes with bending of microvilli. Physical Review Fluids, 2019, 4, .	1.0	3
1297	Direct numerical simulation of the sedimentation of a particle pair in a shear-thinning fluid. Physical Review Fluids, 2020, 5, .	1.0	11
1298	Dynamics of droplet formation and flow regime transition in a T-shaped microfluidic device with a shear-thinning continuous phase. Physical Review Fluids, 2020, 5, .	1.0	10
1299	Lattice Boltzmann simulation of water droplet impacting a hydrophobic plate with a cylindrical pore. Physical Review Fluids, 2020, 5, .	1.0	12
1300	Analysis of depinning behavior of drop on chemically heterogeneous surface. Physical Review Fluids, 2020, 5, .	1.0	10
1301	Computational characterization of nonwoven fibrous media. II. Analysis of microstructure effects on permeability and tortuosity. Physical Review Materials, 2020, 4, .	0.9	5
1302	ANALYSIS OF TRANSIENT BLOOD FLOW PASSING THROUGH MECHANICAL HEART VALVES BY LATTICE BOLTZMANN METHODS. , 2004, , 215-245.		1
1303	Design rules for creating sensing and self-actuating microcapsules. Smart Structures and Systems, 2011, 7, 199-211.	1.9	3

#	ARTICLE	IF	CITATIONS
1304	A Double Multi-Relaxation-Time Lattice Boltzmann Method for Simulation of Magneto Hydrodynamics Natural Convection of Nanofluid in a Square Cavity. Journal of Applied Fluid Mechanics, 2016, 9, 1201-1214.	0.4	5
1305	Add-ons for Lattice Boltzmann Methods: Regularization, Filtering and Limiters. , 2013, , 31-52.		4
1306	Non-Darcy porous media flow in no-slip and slip regimes. Thermal Science, 2012, 16, 167-176.	0.5	17
1307	Cellular Automata in Complex Matter. Complex Systems, 2011, 20, 67-91.	0.9	16
1308	Lattice Boltzmann and Navier-Stokes Cartesian CFD Approaches for Airframe Noise Predictions. , 2017, , .		15
1309	A brief review of the phase-field-based lattice Boltzmann method for multiphase flows. Capillarity, 2019, 2, 33-52.	1.0	106
1310	Macroscopic Lattice Boltzmann Method. Water (Switzerland), 2021, 13, 61.	1.2	6
1311	Third order equivalent equation of lattice Boltzmann scheme. Discrete and Continuous Dynamical Systems, 2008, 23, 221-248.	0.5	20
1312	Evaluation of Pressure Boundary Conditions for Permeability Calculations Using the Lattice-Boltzmann Method. Advances in Applied Mathematics and Mechanics, 2010, 2, 685-700.	0.7	11
1313	On the Comparison Between Lattice Boltzmann Methods and Spectral Methods for DNS of Incompressible Turbulent Channel Flows on Small Domain Size. Advances in Applied Mathematics and Mechanics, 2019, 11, 598-607.	0.7	4
1314	Burnett Order Stress and Spatially-Dependent Boundary Conditions for the Lattice Boltzmann Method. Communications in Computational Physics, 2020, 27, 167-197.	0.7	6
1315	Lattice Boltzmann Simulations in the Slip and Transition Flow Regime with the Peano Framework. Open Journal of Fluid Dynamics, 2012, 02, 101-110.	0.3	13
1316	Actuator line simulations of wind turbine wakes using the lattice Boltzmann method. Wind Energy Science, 2020, 5, 623-645.	1.2	23
1317	Parallel reverse time integration and reduced order models. SMAI Journal of Computational Mathematics, 0, 1, 5-28.	0.0	1
1318	NUMERICAL SIMULATION OF A THREE-LAYERED RADIANT POROUS HEAT EXCHANGER INCLUDING LATTICE BOLTZMANN SIMULATION OF FLUID FLOW. International Journal of Engineering, Transactions B: Applications, 2011, , .	0.6	3
1319	A coupled lattice Boltzmann model for fluid flow and diffusion in a porous medium. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 014702.	0.2	9
1320	Simulation of micro flow in the transition regime using effective-viscosity-based multi-relaxation-time lattice Boltzmann model. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 014703.	0.2	5
1321	Numerical study of droplet impact on the inner surface of a cylinder. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 184701.	0.2	3

#	ARTICLE	IF	CITATIONS
1322	Lattice Boltzmann method simulations of the immiscible Rayleigh-Taylor instability with high Reynolds numbers. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 044701.	0.2	8
1323	Investigation of the Lattice Boltzmann SRT and MRT Stability for Lid Driven Cavity Flow. International Journal of Materials Mechanics and Manufacturing, 2014, 2, 317-324.	0.2	8
1324	Wall-modeled lattice Boltzmann large-eddy simulation of neutral atmospheric boundary layers. Physics of Fluids, 2021, 33, .	1.6	16
1325	A partitioned framework for coupling LBM and FEM through an implicit IBM allowing non-conforming time-steps: Application to fluid-structure interaction in biomechanics. Journal of Computational Physics, 2022, 449, 110786.	1.9	11
1326	The effect of radiation on entropy and heat transfer of MHD nanofluids inside a quarter circular enclosure with a changing L-shaped source: lattice Boltzmann methods. Chemical Engineering Communications, 0, , 1-16.	1.5	0
1327	A Scalable Moving Boundary Treatment in the Lattice Boltzmann Method. Applied Sciences (Switzerland), 2021, 11, 9612.	1.3	1
1328	Coupled influence of wettability alteration and geometry on two-phase flow in porous media. Advances in Water Resources, 2021, 157, 104055.	1.7	3
1329	Geometry and Flow Properties Affect the Phase Shift between Pressure and Shear Stress Waves in Blood Vessels. Fluids, 2021, 6, 378.	0.8	6
1330	Two-Side-by-Side Cantilevered Cylinders in a Cross Flow. , 2006, , .		1
1332	Simulation of Gas Flow in a Microchannel by Lattice Boltzmann Method. , 2009, , 195-200.		2
1333	Analysis and Invariant Properties of a Lattice Boltzmann Method. Advances in Applied Mathematics and Mechanics, 2010, 2, 640-669.	0.7	0
1334	IMPROVING THE ACCURACY OF LATTICE BOLTZMANN SIMULATIONS OF LIQUID MICROFLOWS. International Journal for Multiscale Computational Engineering, 2011, 9, 89-96.	0.8	0
1335	The Boltzmann Equation. , 2012, , 215-242.		0
1336	Lattice Boltzmann modeling of microscale oscillating Couette flow. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 214703.	0.2	5
1337	Numerical Simulation of Capillary Trapping of CO <sub>2</sub> in Porous Media. Journal of MMIJ, 2014, 130, 404-410.	0.4	1
1338	Study of acoustic levitation by lattice Boltzmann method. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 164301.	0.2	1
1339	Simulation of 2-dimensional flows in Modelica with the Cascaded Digital Lattice Boltzmann Method. , 2014, , .		0
1340	Coupled LBM-DEM modeling of Bingham fluids with suspended particles. , 2014, , 479-484.		0



#	ARTICLE	IF	CITATIONS
1341	Numerical Investigation of Mixing Characteristics in Cavity Flow at Various Aspect Ratios. Transactions of the Korean Society of Mechanical Engineers, B, 2015, 39, 79-88.	0.0	0
1342	Numerical investigation on drag reduction with hydrophobic surface by lattice Boltzmann method. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 184702.	0.2	0
1345	Investigation of Particles Statistics in large Eddy Simulated Turbulent Channel Flow using Generalized lattice Boltzmann Method. Journal of Applied Fluid Mechanics, 2016, 9, 1349-1357.	0.4	0
1346	Non-orthogonal multiple-relaxation-time lattice Boltzmann method for axisymmetric thermal flows. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 044701.	0.2	0
1347	Large Eddy Simulation-Based Lattice Boltzmann Method with Different Collision Models. Green Energy and Technology, 2018, , 661-683.	0.4	0
1348	Numerical Simulations Applied to Energy Efficiency for Buildings with Lattice Boltzmann Method. SSRN Electronic Journal, 0, , .	0.4	0
1349	Role of flexural stiffness of leukocyte microvilli in adhesion dynamics. Physical Review Fluids, 2018, 3, .	1.0	2
1352	Multi relaxation time Lattice Boltzmann analysis of lid-driven rectangular cavity subject to various obstacle configurations. International Communications in Heat and Mass Transfer, 2021, 129, 105658.	2.9	9
1353	Magnetic field-induced control of a compound ferrofluid droplet deformation and breakup in shear flow using a hybrid lattice Boltzmann-finite difference method. International Journal of Multiphase Flow, 2022, 146, 103846.	1.6	18
1354	MRT-LBM simulation of mixed convection in a horizontal channel heated from below by sinusoidal temperature profile. MATEC Web of Conferences, 2020, 330, 01042.	0.1	0
1355	Lattice Boltzmann Method for Acoustics Levitation. , 2020, , 57-77.		0
1356	Computational Meshing for CFD Simulations. Biological and Medical Physics Series, 2021, , 85-115.	0.3	4
1357	Three-dimensional pseudopotential lattice Boltzmann model for multiphase flows at high density ratio. Physical Review E, 2020, 102, 053308.	0.8	11
1358	Simulation of fluid-structure interaction during the phaco-emulsification stage of cataract surgery. International Journal of Mechanical Sciences, 2022, 214, 106931.	3.6	6
1359	A high-order implicit-explicit flux reconstruction lattice Boltzmann method for viscous incompressible flows. Computers and Mathematics With Applications, 2022, 105, 13-28.	1.4	7
1360	Hydrodynamic limits and numerical errors of isothermal lattice Boltzmann schemes. Journal of Computational Physics, 2022, 450, 110858.	1.9	17
1361	Speeding-up image-based simulation of two-phase flow in porous media with lattice-Boltzmann method using three-dimensional curvelet transforms. Physics of Fluids, 2021, 33, .	1.6	7
1362	Pore-Scale Modeling of Two-Phase Flows with Soluble Surfactants in Porous Media. Energy & Fuels, 2021, 35, 19374-19388.	2.5	7

#	ARTICLE	IF	CITATIONS
1363	Multiphase flow simulation with three-dimensional weighted-orthogonal multiple-relaxation-time pseudopotential lattice Boltzmann model. <i>Physics of Fluids</i> , 2021, 33, .	1.6	7
1364	Electric control of dielectric droplets and films. <i>Physics of Fluids</i> , 2021, 33, 122103.	1.6	8
1365	Lattice Boltzmann simulation of solid-liquid phase change with nonlinear density variation. <i>Physics of Fluids</i> , 2021, 33, 123302.	1.6	5
1366	LBM-MRT simulation of vertical flow of a non-Newtonian fluid in a channel provided with obstacles. <i>E3S Web of Conferences</i> , 2021, 321, 04006.	0.2	0
1367	Multiscale simulation of flow in gas-lubricated journal bearings: A comparative study between the Reynolds equation and lattice Boltzmann methods. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1792-1810.	1.5	3
1368	Electrohydrodynamic effects on bubble dynamics during nucleate pool boiling under the leaky dielectric assumption. <i>Physics of Fluids</i> , 2022, 34, .	1.6	22
1369	Phase-field lattice Boltzmann model for two-phase flows with large density ratio. <i>Physical Review E</i> , 2022, 105, 015304.	0.8	8
1370	An immersed boundary-lattice Boltzmann method with hybrid multiple relaxation times for viscoplastic fluid-structure interaction problems. <i>Applied Ocean Research</i> , 2022, 119, 103023.	1.8	5
1371	Lattice Boltzmann Method for Simulations of Nozzle Flows in Coastal Environments. <i>Journal of Coastal Research</i> , 2021, 38, .	0.1	1
1372	Capillary Interactions, Aggregate Formation, and the Rheology of Particle-Laden Flows: A Lattice Boltzmann Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 1863-1870.	1.8	2
1373	Numerical investigation of inertial, viscous, and capillary effects on the drainage process in porous media. <i>Computers and Fluids</i> , 2022, 237, 105324.	1.3	7
1374	Drafting, kissing, and tumbling of a pair of particles settling in non-Newtonian fluids. <i>Physics of Fluids</i> , 2022, 34, .	1.6	6
1375	Numerical investigation of natural convection in concentric cylinder partially heated based on MRT-lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , 2022, 132, 105856.	2.9	11
1376	A comparative study of the cumulant lattice Boltzmann method in a single-phase free-surface model of violent flows. <i>Computers and Fluids</i> , 2022, 236, 105303.	1.3	9
1377	Lattice Boltzmann modeling of primary liquid film breakup at the prefilmer edge: Effects of surface wettability. <i>Computers and Mathematics With Applications</i> , 2022, 109, 146-157.	1.4	1
1378	Sediment transport and morphological changes in shallow flows modelled with the lattice Boltzmann method. <i>Journal of Hydrology</i> , 2022, 606, 127472.	2.3	4
1379	A coupled LBM-DEM method for simulating the multiphase fluid-solid interaction problem. <i>Journal of Computational Physics</i> , 2022, 454, 110963.	1.9	27
1380	Natural convection in an L-shaped enclosure using multi-relaxation time lattice Boltzmann method. <i>Indian Journal of Physics</i> , 2022, 96, 2921-2939.	0.9	4

#	ARTICLE	IF	CITATIONS
1381	Inertial Effect on Oil/Water Countercurrent Imbibition in Porous Media from a Pore-Scale Perspective. SPE Journal, 2022, 27, 1619-1632.	1.7	5
1382	Improved curved-boundary scheme for lattice Boltzmann simulation of microscale gas flow with second-order slip condition. Physical Review E, 2022, 105, 025310.	0.8	1
1383	Condensation Behaviors of Droplet under the Gravity Effect on Hydrophobic Surface by Using the Hybrid Thermal Pseudopotential LBM Model. , 2022, , .		3
1384	Aerodynamic performance of a self-propelled airfoil with a non-zero angle of attack. Physics of Fluids, 2022, 34, 031901.	1.6	5
1385	Numerical Investigations on Temperature Distribution and Evolution of Cavitation Bubble Collapsed Near Solid Wall. Frontiers in Energy Research, 2022, 10, .	1.2	0
1386	Restoring the conservativity of characteristic-based segregated models: Application to the hybrid lattice Boltzmann method. Physics of Fluids, 2022, 34, .	1.6	6
1387	A phase field-finite difference lattice Boltzmann method for modeling dendritic growth solidification in the presence of melt convection. Computers and Mathematics With Applications, 2022, 114, 180-187.	1.4	3
1388	Role of wall temperature on cavitation bubble collapse near a wall investigated using thermal lattice Boltzmann method. International Communications in Heat and Mass Transfer, 2022, 134, 105988.	2.9	17
1389	Wetting boundary schemes in modified phase-field lattice Boltzmann method for binary fluids with large density ratios. Computers and Mathematics With Applications, 2022, 113, 243-253.	1.4	4
1390	Phase-field lattice Boltzmann method for the simulation of gas-liquid mass transfer. Chemical Engineering Science, 2022, 253, 117539.	1.9	4
1391	Pore-scale study of ion transport and intercalation processes of capacitive deionization cells with intercalation electrodes based on lattice Boltzmann method. Desalination, 2022, 532, 115718.	4.0	10
1392	Numerical modelling of equiaxed dendritic growth with sedimentation in the melt of binary alloys by using an anisotropic lattice Boltzmann-phase field model. International Journal of Thermal Sciences, 2022, 178, 107592.	2.6	2
1393	An Immersed Boundary“Lattice Boltzmann Approach to Study Deformation and Fluid“Structure Interaction of Hollow Sealing Strip. Energies, 2021, 14, 8110.	1.6	2
1394	Fractal microstructure effects on effective gas diffusivity of a nanoporous medium based on pore-scale numerical simulations with lattice Boltzmann method. Physical Review E, 2021, 104, 065304.	0.8	4
1395	Numerical modeling of adjacent bubble interactions under the influence of induced vibrations in liquid pool using lattice Boltzmann method (LBM). Journal of Applied Physics, 2021, 130, .	1.1	3
1396	Optimal array layout of cylindrical baffles to reduce energy of rock avalanche. Journal of Mountain Science, 2022, 19, 493-512.	0.8	5
1397	Unified lattice Boltzmann method with improved schemes for multiphase flow simulation: Application to droplet dynamics under realistic conditions. Physical Review E, 2022, 105, 045314.	0.8	12
1398	Low-Reynolds-number wake of three tandem elliptic cylinders. Physics of Fluids, 2022, 34, .	1.6	8

#	ARTICLE	IF	CITATIONS
1399	A lattice Boltzmann study on the bouncing behavior of equal-sized droplet collision. <i>Physics of Fluids</i> , 2022, 34, 043318.	1.6	3
1400	Surface thermodynamics and wetting condition in the multiphase lattice Boltzmann model with self-tuning equation of state. <i>Journal of Fluid Mechanics</i> , 2022, 940, .	1.4	12
1401	Discrete-velocity Boltzmann model: Regularization and linear stability. <i>Physical Review E</i> , 2022, 105, 045312.	0.8	4
1402	Local hybrid Allen-Cahn model in phase-field lattice Boltzmann method for incompressible two-phase flow. <i>Physical Review E</i> , 2022, 105, 045307.	0.8	2
1404	A Discrete Nine-Velocity Model of the Boltzmann Equation: Solution in the Form of Wild Sum and Applications to Simulating Incompressible Flows. <i>Computational Mathematics and Mathematical Physics</i> , 2022, 62, 685-699.	0.2	1
1405	Recent progress of lattice Boltzmann method and its applications in fluid-structure interaction. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2023, 237, 2461-2484.	1.1	6
1406	Effect of a Flat Plate on Drag Force Reduction and Heat Transfer Characteristics Around Three Heated Square Obstacles. <i>Journal of Physics: Conference Series</i> , 2022, 2178, 012027.	0.3	2
1407	Noise reduction in cavity flow by addition of porous media. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	1.5	4
1408	Numerical analysis of heat transfer evacuation from a cavity confining coated micro-pin fin heat sink using lattice Boltzmann approach. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	2
1409	Synthetic turbulence generator for lattice Boltzmann method at the interface between RANS and LES. <i>Physics of Fluids</i> , 2022, 34, .	1.6	15
1410	Numerical Investigation of Convective Heat Transfer and Fluid Flow Past a Three Square Cylinders Controlled by a Partition in Channel. <i>International Journal of Renewable Energy Development</i> , 2022, 11, 766-781.	1.2	5
1411	Multiscale modeling of gas flow behaviors in nanoporous shale matrix considering multiple transport mechanisms. <i>Physical Review E</i> , 2022, 105, .	0.8	10
1412	Pseudopotential Lattice Boltzmann Method for boiling heat transfer: A mesh refinement procedure. <i>Applied Thermal Engineering</i> , 2022, 213, 118705.	3.0	5
1413	Lattice Boltzmann Model for Oil/Water Two-Phase Flow in Nanoporous Media Considering Heterogeneous Viscosity, Liquid/Solid, and Liquid/Liquid Slip. <i>SPE Journal</i> , 2022, 27, 3508-3524.	1.7	8
1414	A theoretical analysis of mass leakage at boundaries within the lattice Boltzmann method. <i>Physics of Fluids</i> , 2022, 34, .	1.6	5
1415	Natural convection heat transfer with anisotropic thermal diffusion for tilted two-dimensional cavities. <i>International Journal of Heat and Mass Transfer</i> , 2022, 194, 123000.	2.5	9
1417	Effect of a Detached Bi-Partition on the Drag Reduction for Flow Past a Square Cylinder. <i>International Journal of Renewable Energy Development</i> , 2022, 11, 902-915.	1.2	2
1418	Modeling the deformation and breakup of a surfactant-coated droplet on a roughness solid surface in shear flow. <i>AIP Advances</i> , 2022, 12, 065313.	0.6	2

#	ARTICLE	IF	CITATIONS
1419	Numerical Investigation of Two In-Line Two-Dimensional Bubbles Rising in a Two-Dimensional Quiescent Ambient Liquid by a Conservative Phase-Field Lattice Boltzmann Method. <i>Discrete Dynamics in Nature and Society</i> , 2022, 2022, 1-12.	0.5	0
1420	Numerical study of natural convective heat transfer of nanofluids within a porous corrugated triangular cavity in the presence of a magnetic field. <i>Numerical Heat Transfer; Part A: Applications</i> , 0, , 1-27.	1.2	5
1421	Mesoscopic approach for nanoscale liquid-vapor interfacial statics and dynamics. <i>International Journal of Heat and Mass Transfer</i> , 2022, 194, 123104.	2.5	6
1422	Lattice Boltzmann study of dissolution in porous media: Comparison of VOP with VOF-curved boundary coupling. <i>Journal of Petroleum Science and Engineering</i> , 2022, 216, 110754.	2.1	5
1423	Global linear instability analysis of thermal convective flow using the linearized lattice Boltzmann method. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	1.4	6
1424	Effects of pore scale and conjugate heat transfer on thermal convection in porous media. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	1.4	7
1425	Enhancement of heat and mass transfer by herringbone microstructures in a simple shear flow. <i>Physics of Fluids</i> , 0, , .	1.6	1
1426	Simplified method for wetting on curved boundaries in conservative phase-field lattice-Boltzmann simulation of two-phase flows with large density ratios. <i>Physics of Fluids</i> , 2022, 34, .	1.6	8
1427	Wettability control on imbibition behavior of oil and water in porous media. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
1428	Investigation of mass transfer model of CO <sub>2</sub> absorption with Rayleigh convection using multi-relaxation time lattice Boltzmann method. <i>Chinese Journal of Chemical Engineering</i> , 2022, , .	1.7	2
1429	Stability conditions of multiple-relaxation-time lattice Boltzmann model for seismic wavefield modeling. <i>Journal of Applied Geophysics</i> , 2022, 204, 104742.	0.9	5
1430	Flow and Heat Transfer of Liquid Nitrogen in Rock Pores Based on Lattice Boltzmann Method. <i>Transport in Porous Media</i> , 0, , .	1.2	1
1431	Multiphase curved boundary condition in lattice Boltzmann method. <i>Physical Review E</i> , 2022, 106, .	0.8	7
1432	From Transient to Stationary Transport in Porous Networks under Various Adsorption Conditions and Kinetics. <i>Journal of Physical Chemistry B</i> , 2022, 126, 6125-6135.	1.2	0
1433	Streamline penetration, velocity error, and consequences of the feedback immersed boundary method. <i>Physics of Fluids</i> , 2022, 34, .	1.6	13
1434	Taichi-LBM3D: A Single-Phase and Multiphase Lattice Boltzmann Solver on Cross-Platform Multicore CPU/GPUs. <i>Fluids</i> , 2022, 7, 270.	0.8	5
1435	Modeling the Wettability of Microstructured Hydrophobic Surface Using Multiple-relaxation-time Lattice Boltzmann Method. <i>Journal of Bionic Engineering</i> , 2022, 19, 1460-1471.	2.7	1
1436	Influence of slip effect on viscous dissipation heat and lubrication characteristics of Gas Journal Bearing: A multiscale analysis. <i>Numerical Heat Transfer; Part A: Applications</i> , 0, , 1-18.	1.2	0

#	ARTICLE	IF	CITATIONS
1437	Multiresolution-Based Mesh Adaptation and Error Control for Lattice Boltzmann Methods with Applications to Hyperbolic Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2022, 44, A2599-A2627.	1.3	3
1438	A systematic study of hidden errors in the bounce-back scheme and their various effects in the lattice Boltzmann simulation of viscous flows. <i>Physics of Fluids</i> , 2022, 34, .	1.6	7
1439	Preconditioned central moment lattice Boltzmann method on a rectangular lattice grid for accelerated computations of inhomogeneous flows. <i>Journal of Computational Science</i> , 2022, 63, 101821.	1.5	1
1440	LBM study of ice nucleation induced by the collapse of cavitation bubbles. <i>Computers and Fluids</i> , 2022, 246, 105616.	1.3	2
1441	Numerical study of surfactant effects on the rise of a single bubble and two coaxial bubbles. <i>International Communications in Heat and Mass Transfer</i> , 2022, 137, 106284.	2.9	6
1442	Lattice-Boltzmann modeling of lifted hydrogen jet flames: A new model for hazardous ignition prediction. <i>Combustion and Flame</i> , 2022, 245, 112317.	2.8	7
1443	Impact and boiling characteristics of a droplet on heated surfaces: A 3D lattice Boltzmann study. <i>Applied Thermal Engineering</i> , 2023, 219, 119360.	3.0	7
1444	Application of immersed boundary-lattice boltzmann method in failure of automobile door sealing strip. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2024, 238, 187-197.	1.1	0
1445	Two pressure boundary conditions for multi-component multiphase flow simulations using the pseudo-potential lattice Boltzmann model. <i>Computers and Fluids</i> , 2022, 248, 105672.	1.3	5
1446	Three-dimensional study of double droplets impact on a wettability-patterned surface. <i>Computers and Fluids</i> , 2022, 248, 105669.	1.3	9
1447	On the magnetic nanoparticle injection strategy for hyperthermia treatment. <i>International Journal of Mechanical Sciences</i> , 2022, 235, 107707.	3.6	7
1448	Lattice Boltzmann study of bubble dynamic behaviors and heat transfer performance during flow boiling in a serpentine microchannel. <i>Applied Thermal Engineering</i> , 2023, 218, 119331.	3.0	15
1449	Wall Wettability Effects on the Collapse of the Attached Vapor Cavitation Bubble with a Thermal Lattice Boltzmann Method. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1450	Double Population Lattice Boltzmann Model for Magneto-Hydrodynamic Blood Flow in Stenotic Artery. <i>Lecture Notes in Computer Science</i> , 2022, , 130-141.	1.0	1
1451	Wall Wettability Effect on Process of Collapse of Single Cavitation Bubbles in Near-Wall Region Using Pseudo-Potential Lattice Boltzmann Method. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1452	Cavitation bubbles with a tunable-surface-tension thermal lattice Boltzmann model. <i>Physics of Fluids</i> , 2022, 34, .	1.6	10
1453	Mesosopic modeling of vapor cavitation bubbles collapse and interaction in near-wall region with a pseudopotential lattice Boltzmann method. <i>Physics of Fluids</i> , 2022, 34, .	1.6	12
1454	Influence of wettability in immiscible displacements with lattice Boltzmann method. <i>Journal of Zhejiang University: Science A</i> , 2022, 23, 704-720.	1.3	3

#	ARTICLE	IF	CITATIONS
1455	Unit conversion in pseudopotential lattice Boltzmann method for liquid-vapor phase change simulations. <i>Physics of Fluids</i> , 2022, 34, .	1.6	6
1456	Near-wall vortices and thermal simulation of coupled-domain transpiration cooling by a recursive regularized lattice Boltzmann method. <i>Physics of Fluids</i> , 2022, 34, .	1.6	7
1457	Multidimensional fully adaptive lattice Boltzmann methods with error control based on multiresolution analysis. <i>Journal of Computational Physics</i> , 2022, 471, 111670.	1.9	3
1458	Multiple relaxation time lattice Boltzmann schemes for advection-diffusion equations with application to radar image processing. <i>Journal of Computational Physics</i> , 2022, 471, 111612.	1.9	8
1459	Development Progress of SWLBM a Framework Based on Lattice Boltzmann Method for Fluid Dynamics Simulation. <i>Lecture Notes in Computer Science</i> , 2022, , 62-71.	1.0	0
1460	High accuracy analysis of adaptive multiresolution-based lattice Boltzmann schemes via the equivalent equations. <i>SMAI Journal of Computational Mathematics</i> , 0, 8, 161-199.	0.0	1
1461	Low Dissipative Entropic Lattice Boltzmann Method. <i>Mathematics</i> , 2022, 10, 3928.	1.1	2
1462	Improved contact angle measurement in multiphase lattice Boltzmann. <i>Chinese Physics B</i> , 2023, 32, 054701.	0.7	2
1463	Parallel Scheme for Multi-Layer Refinement Non-Uniform Grid Lattice Boltzmann Method Based on Load Balancing. <i>Energies</i> , 2022, 15, 7884.	1.6	1
1464	Numerical investigations of free and forced convection with various features using mesoscopic Lattice Boltzmann method. <i>Materials Today: Proceedings</i> , 2022, 68, 2658-2664.	0.9	1
1465	Effect of magnetic field on particle deposition in a modeled room. <i>Particulate Science and Technology</i> , 2023, 41, 361-370.	1.1	4
1466	Study on wetting and spreading behaviors of compound droplets on wedge by lattice Boltzmann method. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2023, 72, 024701.	0.2	1
1467	Convective flow over heat dissipating fins for application of electronic package cooling using curved boundary scheme lattice Boltzmann method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2023, 33, 1184-1202.	1.6	6
1468	Multiple-distribution-function lattice Boltzmann method for convection-diffusion-system-based incompressible Navier-Stokes equations. <i>Physical Review E</i> , 2022, 106, .	0.8	5
1469	Thermal lattice Boltzmann model for liquid-vapor phase change. <i>Physical Review E</i> , 2022, 106, .	0.8	7
1470	An effective pseudo-potential lattice Boltzmann model with extremely large density ratio and adjustable surface tension. <i>Physics of Fluids</i> , 2022, 34, .	1.6	4
1471	Hybrid Lattice-Boltzmann-Potential Flow Simulations of Turbulent Flow around Submerged Structures. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 1651.	1.2	0
1472	Prediction of spontaneous imbibition with gravity in porous media micromodels. <i>Journal of Fluid Mechanics</i> , 2022, 952, .	1.4	8



#	ARTICLE	IF	CITATIONS
1473	Wall wettability effects on the collapse of the attached vapor cavitation bubble with a thermal lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , 2023, 140, 106529.	2.9	9
1474	Movable and Focus-Tunable Lens Based on Electrically Controllable Liquid: A Lattice Boltzmann Study. <i>Entropy</i> , 2022, 24, 1714.	1.1	1
1475	Modeling of droplet dynamics with soluble surfactant by multi-relaxation-time phase-field lattice Boltzmann method. <i>Physics of Fluids</i> , 2023, 35, .	1.6	5
1476	Lattice Boltzmann method with nonreflective boundary conditions for low Mach number combustion. <i>Proceedings of the Combustion Institute</i> , 2023, 39, 5365-5373.	2.4	1
1477	Numerical Study on Heat-Transfer Characteristics of Convection Melting in Metal Foam under Sinusoidal Temperature Boundary Conditions. <i>Entropy</i> , 2022, 24, 1779.	1.1	1
1478	Phase-field-based multiple-distribution-function lattice Boltzmann method for incompressible two-phase flows. <i>International Journal for Numerical Methods in Fluids</i> , 2023, 95, 683-709.	0.9	1
1479	Scalable Simulation of Pressure Gradient-Driven Transport of Rarefied Gases in Complex Permeable Media Using Lattice Boltzmann Method. <i>Fluids</i> , 2023, 8, 1.	0.8	4
1480	A brief on the application of multiphase lattice Boltzmann method for boiling and evaporation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2023, 148, 2869-2904.	2.0	7
1481	Lattice Boltzmann modelling of isothermal two-component evaporation in porous media. <i>Journal of Fluid Mechanics</i> , 2023, 955, .	1.4	19
1482	Enhancement of mixed convection heat transfer in a square cavity via a freely moving elastic ring. <i>Theoretical and Computational Fluid Dynamics</i> , 0, , .	0.9	0
1483	Double multiple-relaxation-time model of lattice-Boltzmann magnetohydrodynamics at low magnetic Reynolds numbers. <i>Physics of Fluids</i> , 2023, 35, .	1.6	3
1484	Enhanced coalescence-induced droplet jumping on V-shaped superhydrophobic surface with a triangular prism. <i>Physics of Fluids</i> , 2023, 35, .	1.6	5
1485	Equations of state in multiphase lattice Boltzmann method revisited. <i>Physical Review E</i> , 2023, 107, .	0.8	3
1486	Thermodynamics of the inception and interactions of multiple laser-produced cavitation bubbles using the lattice Boltzmann method. <i>Computers and Fluids</i> , 2023, 252, 105771.	1.3	8
1487	A numerical study of the MRT-LBM for the shallow water equation in high Reynolds number flows: An application to real-world tsunami simulation. <i>Nuclear Engineering and Design</i> , 2023, 404, 112159.	0.8	1
1488	Wall wettability effect on process of collapse of single cavitation bubbles in near-wall region using pseudo-potential lattice Boltzmann method. <i>Heliyon</i> , 2022, 8, e12636.	1.4	5
1489	Multiple Vapor Cavitation Bubble Interactions with a Thermal Lattice Boltzmann Method. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1490	Dynamic Mode Decomposition for Unsteady Flow over Flapping Wings. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
1491	Truncation errors and modified equations for the lattice Boltzmann method via the corresponding Finite Difference schemes. , 2023, 57, 1225-1255.		3
1492	Numerical Study of Passively Pitching Tandem Dragonfly Wings for Hovering Flight. , 2023, , .		0
1493	Rigid spheroid migration in square channel flow of power-law fluids. International Journal of Mechanical Sciences, 2023, 247, 108194.	3.6	3
1494	Efficient Quality Diversity Optimization of 3D Buildings through 2D Pre-optimization. Evolutionary Computation, 0, , 1-21.	2.3	0
1495	Stratified Taylorâ€“Green vortex by lattice Boltzmann methods: Influence of stencils, forcing schemes, and collision models. Computers and Fluids, 2023, 256, 105838.	1.3	1
1496	A VOS based Immersed Boundary-Lattice Boltzmann method for incompressible fluid flows with complex and moving boundaries. Computers and Fluids, 2023, 255, 105832.	1.3	4
1498	Minimum superheat imposed by equations of state in modelling the phase transition. International Journal of Thermal Sciences, 2023, 189, 108288.	2.6	4
1499	A hybrid lattice Boltzmann - Navier-Stokes method for unsteady aerodynamic and aeroacoustic computations. Journal of Computational Physics, 2023, 485, 112098.	1.9	3
1500	Entropic lattice Boltzmann methods: A review. Computers and Fluids, 2023, 259, 105884.	1.3	5
1501	On the Magnus effect of a rotating porous circular cylinder in uniform flow: A lattice Boltzmann study. Physics of Fluids, 2023, 35, 023608.	1.6	1
1502	Numerical simulation of bubbly flows by the improved lattice Boltzmann method for incompressible two-phase flows. Computers and Fluids, 2023, 254, 105797.	1.3	7
1503	Lattice Boltzmann simulation of ice droplet melting process and motion behavior in gas diffusion layer of proton exchange membrane fuel cell under thermal purging. Ionics, 2023, 29, 1553-1569.	1.2	2
1504	Pore-scale study on miscible thermal displacing process in porous media using lattice Boltzmann method. Physics of Fluids, 2023, 35, 023109.	1.6	1
1505	Unified directional parabolic-accurate lattice Boltzmann boundary schemes for grid-rotated narrow gaps and curved walls in creeping and inertial fluid flows. Physical Review E, 2023, 107, .	0.8	0
1506	Discrete unified gas kinetic scheme for continuum compressible flows. Physical Review E, 2023, 107, .	0.8	6
1507	Comparative study of two-relaxation time lattice Boltzmann and finite element methods for a planar 4:1 contraction flow: a Newtonian fluid at finite Reynolds numbers. Korea Australia Rheology Journal, 2023, 35, 47-54.	0.7	2
1508	Contact Angle Measurement on Curved Wetting Surfaces in Multiphase Lattice Boltzmann Method. Langmuir, 2023, 39, 2974-2984.	1.6	1
1509	Electrohydrodynamic viscous fingering of leaky dielectric fluids in a channel. Physics of Fluids, 2023, 35, 034105.	1.6	4

#	ARTICLE	IF	CITATIONS
1510	Numerical simulations of miscible displacement in an inclined channel by lattice Boltzmann method. <i>Physics of Fluids</i> , 2023, 35, .	1.6	3
1511	A New Multi-Level Grid Multiple-Relaxation-Time Lattice Boltzmann Method with Spatial Interpolation. <i>Mathematics</i> , 2023, 11, 1089.	1.1	4
1512	A joint absorbing boundary for the multiple-relaxation-time lattice Boltzmann method in seismic acoustic wavefield modeling. <i>Petroleum Science</i> , 2023, 20, 2113-2126.	2.4	5
1513	Toward learning Lattice Boltzmann collision operators. <i>European Physical Journal E</i> , 2023, 46, .	0.7	2
1514	Phase-field lattice Boltzmann model of growth and buoyancy driven motion of dendritic particles: the effect of Coriolis force. <i>IOP Conference Series: Materials Science and Engineering</i> , 2023, 1274, 012047.	0.3	0
1515	Study of Aerodynamic Characteristics of Self-propelled Airfoils with Tandem Configuration. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 3329-3341.	0.3	0
1516	Assessment of lattice Boltzmann method for low-rise building wind flow simulation with limited resources. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2023, .	0.6	0
1517	Effects of the depth of the needle-shaped water dispersion device inserted into the jet on the jet breakup of sprinklers. <i>Irrigation and Drainage</i> , 2023, 72, 887-909.	0.8	2
1518	Analysis of Hierarchical Grid Refinement Techniques for the Lattice Boltzmann Method by Numerical Experiments. <i>Fluids</i> , 2023, 8, 103.	0.8	1
1519	Comprehensive comparison between the lattice Boltzmann and Navier-Stokes methods for aerodynamic and aeroacoustic applications. <i>Computers and Fluids</i> , 2023, 257, 105881.	1.3	8
1520	Comparing classical electrodynamic theories predicting deformation of a water droplet in a tightly focused Gaussian beam. <i>Physics of Fluids</i> , 2023, 35, 042008.	1.6	1
1521	A multiple-relaxation-time lattice Boltzmann model for Burgers equation. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 13342-13351.	1.2	0
1522	Numerical study of a hybrid thermal lattice Boltzmann method for pool boiling heat transfer on a modeled hydrophilic metal foam surface. <i>Applied Thermal Engineering</i> , 2023, 229, 120535.	3.0	1
1523	A result of convergence for a mono-dimensional two-velocities lattice Boltzmann scheme. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2023, .	0.6	2
1524	Coupling Phase-Field LBM-MP Method for Multiphase Fluid-Deformable Solid Interaction Problems Involving Large Density and Viscosity Contrasts. <i>International Journal of Applied Mechanics</i> , 2023, 15, .	1.3	2
1525	Effect of gravity on phase transition for liquid-gas simulations. <i>Physics of Fluids</i> , 2023, 35, 043324.	1.6	1
1526	Lattice Boltzmann method for heat transfer in transitional flows with unified single-node curved boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , 2023, 210, 124167.	2.5	4
1591	Accelerating Large-Scale CFD Simulations with Lattice Boltzmann Method on a 40-Million-Core Sunway Supercomputer. , 2023, , .		1

#	ARTICLE	IF	CITATIONS
1600	Applications of lattice Boltzmann method combined with smoothed profile method for particulate flows: a brief review. Korea Australia Rheology Journal, 2023, 35, 213-228.	0.7	0
1612	Computational analysis of efficient transient multi-relaxation-time LBM for bounded domains. AIP Conference Proceedings, 2023, , .	0.3	0