Sauro Succi

List of Publications by Year in descending order

504 papers	19,189 citations	17405 63 h-index	18606 119 g-index
523 all docs	523 docs citations	523 times ranked	7681 citing authors

#	Article	IF	Citations
1	Analysis of Carleman Linearization of Lattice Boltzmann. Fluids, 2022, 7, 24.	0.8	9
2	The world beyond physics: How big is it?. Europhysics Letters, 2022, 137, 17001.	0.7	0
3	Zero Sales Resistance: The Dark Side of Big Data and Artificial Intelligence. Cyberpsychology, Behavior, and Social Networking, 2022, 25, 169-173.	2.1	4
4	Reply to: Models of flow through sponges must consider the sponge tissue. Nature, 2022, 603, E26-E28.	13.7	1
5	Stochastic Jetting and Dripping in Confined Soft Granular Flows. Physical Review Letters, 2022, 128, 128001.	2.9	9
6	LBcuda: A high-performance CUDA port of LBsoft for simulation of colloidal systems. Computer Physics Communications, 2022, 277, 108380.	3.0	6
7	The vortex-driven dynamics of droplets within droplets. Nature Communications, 2021, 12, 82.	5.8	26
8	Spatial interference between infectious hotspots: Epidemic condensation and optimal windspeed. International Journal of Modern Physics C, 2021, 32, 2150044.	0.8	0
9	Rayleighâ€“BÃ©nard convection of a model emulsion: anomalous heat-flux fluctuations and finite-size droplet effects. Soft Matter, 2021, 17, 3709-3721.	1.2	5
10	Mesoscale modelling of dropletsâ€™ self-assembly in microfluidic channels. Soft Matter, 2021, 17, 2374-2383.	1.2	11
11	Wet to dry self-transitions in dense emulsions: From order to disorder and back. Physical Review Fluids, 2021, 6, .	1.0	11
12	Optimized Modeling and Design of a PCM-Enhanced H2 Storage. Energies, 2021, 14, 1554.	1.6	17
13	Shear dynamics of polydisperse double emulsions. Physics of Fluids, 2021, 33, .	1.6	10
14	A Lattice Boltzmann Method for relativistic rarefied flows in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e672" altimg="si1.svg"><mml:mrow><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (li dimensions. Journal of Computational Science, 2021, 51, 101320.	1.5	6
15	Lattice Boltzmann multicomponent model for direct-writing printing. Physics of Fluids, 2021, 33, .	1.6	6
16	Numerical Study of Thermal Diffusion and Diffusion Thermo Effects in a Differentially Heated and Salted Driven Cavity Using MRT-Lattice Boltzmann Finite Difference Model. International Journal of Applied Mechanics, 2021, 13, 2150049.	1.3	9
17	Extreme flow simulations reveal skeletal adaptations of deep-sea sponges. Nature, 2021, 595, 537-541.	13.7	64
18	Translocation Dynamics of High-Internal Phase Double Emulsions in Narrow Channels. Langmuir, 2021, 37, 9026-9033.	1.6	11

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19	Microscale modelling of dielectrophoresis assembly processes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200407.	1.6	2
20	Tracking droplets in soft granular flows with deep learning techniques. European Physical Journal Plus, 2021, 136, 864.	1.2	8
21	Deformation and breakup dynamics of droplets within a tapered channel. Physics of Fluids, 2021, 33, .	1.6	9
22	A fast and efficient deep learning procedure for tracking droplet motion in dense microfluidic emulsions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200400.	1.6	10
23	In-silico analysis of airflow dynamics and particle transport within a human nasal cavity. Journal of Computational Science, 2021, 54, 101411.	1.5	1
24	Projecting LBM performance on Exascale class Architectures: A tentative outlook. Journal of Computational Science, 2021, 55, 101447.	1.5	6
25	Playing with Casimir in the vacuum sandbox. European Physical Journal C, 2021, 81, 1.	1.4	2
26	Dynamics of polydisperse multiple emulsions in microfluidic channels. Physical Review E, 2021, 104, 065112.	0.8	1
27	Discrete fluidization of dense monodisperse emulsions in neutral wetting microchannels. Soft Matter, 2020, 16, 651-658.	1.2	9
28	Neural network models for the anisotropic Reynolds stress tensor in turbulent channel flow. Journal of Turbulence, 2020, 21, 525-543.	0.5	25
29	Beyond moments: relativistic lattice Boltzmann methods for radiative transport in computational astrophysics. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3374-3394.	1.6	20
30	Toward exascale design of soft mesoscale materials. Journal of Computational Science, 2020, 46, 101175.	1.5	6
31	LBsoft: A parallel open-source software for simulation of colloidal systems. Computer Physics Communications, 2020, 256, 107455.	3.0	10
32	Towards a self-consistent Boltzmann's kinetic model of fluid turbulence. Journal of Turbulence, 2020, 21, 375-385.	0.5	2
33	Relativistic anti-fragility. European Physical Journal Plus, 2020, 135, 1.	1.2	0
34	Shear dynamics of confined bijels. AIP Advances, 2020, 10, 095304.	0.6	8
35	Probing bulk viscosity in relativistic flows. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190409.	1.6	3
36	Modeling drug delivery from multiple emulsions. Physical Review E, 2020, 102, 023114.	0.8	17

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37	Models of polymer solutions in electrified jets and solution blowing. Reviews of Modern Physics, 2020, 92, .	16.4	51
38	Multiparticle collision dynamics for fluid interfaces with near-contact interactions. Journal of Chemical Physics, 2020, 152, 144101.	1.2	4
39	Dissipative hydrodynamics of relativistic shock waves in a quark gluon plasma: Comparing and benchmarking alternate numerical methods. Physical Review C, 2020, 101, .	1.1	6
40	Semi-Lagrangian implicit Bhatnagar-Gross-Krook collision model for the finite-volume discrete Boltzmann method. Physical Review E, 2020, 101, 063301.	0.8	2
41	A coupled lattice Boltzmann-Multiparticle collision method for multi-resolution hydrodynamics. Journal of Computational Science, 2020, 44, 101160.	1.5	1
42	Nanofluid Heat Transfer in Wavy-Wall Channels with Different Geometries: A Finite-Volume Lattice Boltzmann Study. Journal of Scientific Computing, 2020, 83, 1.	1.1	13
43	A Multiresolution Mesoscale Approach for Microscale Hydrodynamics. Advanced Theory and Simulations, 2020, 3, 1900250.	1.3	2
44	Novel nonequilibrium steady states in multiple emulsions. Physics of Fluids, 2020, 32, .	1.6	20
45	Relativistic lattice Boltzmann methods: Theory and applications. Physics Reports, 2020, 863, 1-63.	10.3	24
46	Lattice Boltzmann simulations capture the multiscale physics of soft flowing crystals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190406.	1.6	6
47	Concentrated phase emulsion with multicore morphology under shear: A numerical study. Physical Review Fluids, 2020, 5, .	1.0	10
48	A moving-grid approach for fluidâ€“structure interaction problems with hybrid lattice Boltzmann method. Computer Physics Communications, 2019, 234, 137-145.	3.0	21
49	Dynamic symmetry-breaking in mutually annihilating fluids with selective interfaces. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 083215.	0.9	0
50	On the impact of controlled wall roughness shape on the flow of a soft material. Europhysics Letters, 2019, 127, 34005.	0.7	8
51	Microvorticity fluctuations affect the structure of thin fluid films. Physical Review E, 2019, 100, 042606.	0.8	2
52	Simulating blood rheology across scales: A hybrid LB-particle approach. International Journal of Modern Physics C, 2019, 30, 1941003.	0.8	2
53	Effects of Advective-Diffusive Transport of Multiple Chemoattractants on Motility of Engineered Chemosensory Particles in Fluidic Environments. Entropy, 2019, 21, 465.	1.1	1
54	Mesoscale modelling of near-contact interactions for complex flowing interfaces. Journal of Fluid Mechanics, 2019, 872, 327-347.	1.4	48

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55	Quantized Alternate Current on Curved Graphene. Condensed Matter, 2019, 4, 39.	0.8	3
56	Mesoscopic simulations at the physics-chemistry-biology interface. Reviews of Modern Physics, 2019, 91, .	16.4	36
57	Combined effects of fluid type and particle shape on particles flow in microfluidic platforms. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	10
58	Relativistic dissipation obeys Chapman-Enskog asymptotics: Analytical and numerical evidence as a basis for accurate kinetic simulations. Physical Review E, 2019, 99, 052126.	0.8	9
59	Modeling realistic multiphase flows using a non-orthogonal multiple-relaxation-time lattice Boltzmann method. Physics of Fluids, 2019, 31, .	1.6	67
60	Mesoscale modelling of soft flowing crystals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180149.	1.6	16
61	Big data: the end of the scientific method?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180145.	1.6	68
62	Of Naturalness and Complexity. European Physical Journal Plus, 2019, 134, 1.	1.2	5
63	Entropy production in thermal phase separation: a kinetic-theory approach. Soft Matter, 2019, 15, 2245-2259.	1.2	27
64	Curvature dynamics and long-range effects on fluidâ€“fluid interfaces with colloids. Soft Matter, 2019, 15, 2848-2862.	1.2	7
65	Jetting to dripping transition: Critical aspect ratio in step emulsifiers. Physics of Fluids, 2019, 31, .	1.6	25
66	Towards a mean-field kinetic model of electroweak baryogenesis. Journal of Physics: Conference Series, 2019, 1354, 012001.	0.3	0
67	Disordered interfaces in soft fluids with suspended colloids. International Journal of Modern Physics C, 2019, 30, 1941004.	0.8	1
68	Towards Exascale Lattice Boltzmann computing. Computers and Fluids, 2019, 181, 107-115.	1.3	40
69	Simulation of three dimensional MHD natural convection using double MRT Lattice Boltzmann method. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 474-496.	1.2	55
70	Modeling pattern formation in soft flowing crystals. Physical Review Fluids, 2019, 4, .	1.0	30
71	Regularized lattice Boltzmann multicomponent models for low capillary and Reynolds microfluidics flows. Computers and Fluids, 2018, 167, 33-39.	1.3	33
72	Fluid flow around NACA 0012 airfoil at low-Reynolds numbers with hybrid lattice Boltzmann method. Computers and Fluids, 2018, 166, 200-208.	1.3	51

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73	Numerical evidence of electron hydrodynamic whirlpools in graphene samples. Computers and Fluids, 2018, 172, 644-650.	1.3	8
74	Lattice Wigner equation. Physical Review E, 2018, 97, 013308.	0.8	6
75	Multicomponent Lattice Boltzmann Models for Biological Applications. , 2018, , 357-370.		1
76	Entropic lattice Boltzmann model for charged leaky dielectric multiphase fluids in electrified jets. Physical Review E, 2018, 97, 033308.	0.8	19
77	Multilevel Lattice Boltzmann-Particle Dynamics simulations at the Physics-Biology interface. Journal of Physics: Conference Series, 2018, 1136, 012013.	0.3	0
78	Prospects for the Detection of Electronic Preturbulence in Graphene. Physical Review Letters, 2018, 121, 236602.	2.9	19
79	Lattice propagators and Haldane-Wu fractional statistics. Europhysics Letters, 2018, 122, 10002.	0.7	0
80	Discrete Boltzmann trans-scale modeling of high-speed compressible flows. Physical Review E, 2018, 97, 053312.	0.8	58
81	Particle Shape Influences Settling and Sorting Behavior in Microfluidic Domains. Scientific Reports, 2018, 8, 8583.	1.6	22
82	General curved boundary treatment for two- and three-dimensional stationary and moving walls in flow and nonflow lattice Boltzmann simulations. Physical Review E, 2018, 98, 023304.	0.8	5
83	On the effects of surface corrugation on the hydrodynamic performance of cylindrical rigid structures. European Physical Journal E, 2018, 41, 95.	0.7	8
84	Simulation of turbulent flows with the entropic multirelaxation time lattice Boltzmann method on body-fitted meshes. Journal of Fluid Mechanics, 2018, 849, 35-56.	1.4	45
85	Elucidating the mechanism of step emulsification. Physical Review Fluids, 2018, 3, .	1.0	27
86	Mesoscopic model for soft flowing systems with tunable viscosity ratio. Physical Review Fluids, 2018, 3, .	1.0	20
87	On the Effects of Reactant Flow Rarefaction on Heterogeneous Catalysis: a Regularized Lattice Boltzmann Study. Communications in Computational Physics, 2018, 23, .	0.7	2
88	Numerical Evidence of Sinai Diffusion of Random-Mass Dirac Particles. Communications in Computational Physics, 2018, 23, .	0.7	0
89	Quantum Lattice Boltzmann Study of Random-Mass Dirac Fermions in One Dimension. , 2018, , 321-330.		0
90	Computational explorations at the physics-chemistry-biology interface. International Journal of Molecular Biology Open Access, 2018, 3, .	0.2	0

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91	Energy dissipation in flows through curved spaces. Scientific Reports, 2017, 7, 42350.	1.6	14
92	General velocity, pressure, and initial condition for two-dimensional and three-dimensional lattice Boltzmann simulations. Physical Review E, 2017, 95, 033301.	0.8	7
93	Roughness as a Route to the Ultimate Regime of Thermal Convection. Physical Review Letters, 2017, 118, 074503.	2.9	74
94	Effect of nanoscale flows on the surface structure of nanoporous catalysts. Journal of Chemical Physics, 2017, 146, 214703.	1.2	24
95	Role of Oxygen Functionalities in Graphene Oxide Architectural Laminate Subnanometer Spacing and Water Transport. Environmental Science & Technology, 2017, 51, 4280-4288.	4.6	72
96	Heterogeneous catalysis in pulsed-flow reactors with nanoporous gold hollow spheres. Chemical Engineering Science, 2017, 166, 274-282.	1.9	33
97	Hybrid lattice Boltzmann method on overlapping grids. Physical Review E, 2017, 95, 013309.	0.8	32
98	Enhanced computational performance of the lattice Boltzmann model for simulating micron- and submicron-size particle flows and non-Newtonian fluid flows. Computer Physics Communications, 2017, 213, 64-71.	3.0	9
99	Computational performance of SequenceL coding of the lattice Boltzmann method for multi-particle flow simulations. Computer Physics Communications, 2017, 213, 92-99.	3.0	3
100	Integer lattice dynamics for Vlasovâ€“Poisson. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3154-3162.	1.6	5
101	Isotropic finite-difference discretization of stochastic conservation laws preserving detailed balance. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 103202.	0.9	6
102	Entropic lattice pseudo-potentials for multiphase flow simulations at high Weber and Reynolds numbers. Physics of Fluids, 2017, 29, .	1.6	34
103	Towards a unified lattice kinetic scheme for relativistic hydrodynamics. Physical Review E, 2017, 95, 053304.	0.8	17
104	Kinetic approach to relativistic dissipation. Physical Review E, 2017, 96, 023305.	0.8	17
105	Effects of orthogonal rotating electric fields on electrospinning process. Physics of Fluids, 2017, 29, .	1.6	20
106	Effects of nanoparticles on the dynamic morphology of electrified jets. Europhysics Letters, 2017, 119, 44001.	0.7	1
107	A multi-component discrete Boltzmann model for nonequilibrium reactive flows. Scientific Reports, 2017, 7, 14580.	1.6	47
108	Striated populations in disordered environments with advection. Physica A: Statistical Mechanics and Its Applications, 2017, 465, 500-514.	1.2	8

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109	Minimal kinetic theory: a mathematical framework for non-equilibrium flowing matter. Journal of Physics: Conference Series, 2016, 681, 012006.	0.3	0
110	Extended friction elucidates the breakdown of fast water transport in graphene oxide membranes. Europhysics Letters, 2016, 116, 54002.	0.7	17
111	Lattice Boltzmann Methods for Nanofluidics. , 2016, , 1771-1777.		0
112	Lattice Boltzmann beyond Navier-Stokes: Where do we stand?. AIP Conference Proceedings, 2016, , .	0.3	10
113	Complex Flow Simulation via Lattice Boltzmann Method. , 2016, , 38-1-38-30.		1
114	Effects of Knudsen diffusivity on the effective reactivity of nanoporous catalyst media. Journal of Computational Science, 2016, 17, 377-383.	1.5	41
115	Dynamic mesh refinement for discrete models of jet electro-hydrodynamics. Journal of Computational Science, 2016, 17, 325-333.	1.5	12
116	Chimaera simulation of complex states of flowing matter. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160151.	1.6	10
117	Lattice Boltzmann accelerated direct simulation Monte Carlo for dilute gas flow simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160226.	1.6	14
118	Bridging the gaps at the physicsâ€“chemistryâ€“biology interface. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160335.	1.6	35
119	Nonequilibrium thermohydrodynamic effects on the Rayleigh-Taylor instability in compressible flows. Physical Review E, 2016, 94, 023106.	0.8	75
120	Poiseuille flow in curved spaces. Physical Review E, 2016, 93, 043316.	0.8	9
121	Mapping reactive flow patterns in monolithic nanoporous catalysts. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	46
122	Lattice kinetic approach to non-equilibrium flows. AIP Conference Proceedings, 2016, , .	0.3	3
123	DSMCâ€“LBM mapping scheme for rarefied and non-rarefied gas flows. Journal of Computational Science, 2016, 17, 357-369.	1.5	27
124	Semi-spectral method for the Wigner equation. Journal of Computational Physics, 2016, 305, 1015-1036.	1.9	7
125	Non-Newtonian particulate flow simulation: A direct-forcing immersed boundaryâ€“lattice Boltzmann approach. Physica A: Statistical Mechanics and Its Applications, 2016, 447, 1-20.	1.2	53
126	Coupled RapidCell and lattice Boltzmann models to simulate hydrodynamics of bacterial transport in response to chemoattractant gradients in confined domains. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	3

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127	Three-Dimensional Model for Electrospinning Processes in Controlled Gas Counterflow. Journal of Physical Chemistry A, 2016, 120, 4884-4892.	1.1	15
128	Spread of consensus in self-organized groups of individuals: Hydrodynamics matters. Europhysics Letters, 2016, 113, 18001.	0.7	5
129	Reassessing the single relaxation time Lattice Boltzmann method for the simulation of Darcyâ€™s flows. International Journal of Modern Physics C, 2016, 27, 1650037.	0.8	23
130	Cooperativity flows and shear-bandings: a statistical field theory approach. Soft Matter, 2016, 12, 514-530.	1.2	18
131	Turbulent Transport Processes at Rough Surfaces with Geophysical Applications. Procedia IUTAM, 2015, 15, 34-40.	1.2	7
132	The importance of chemical potential in the determination of water slip in nanochannels. European Physical Journal E, 2015, 38, 127.	0.7	8
133	Numerical solution of the nonlinear SchrÃ¶dinger equation using smoothed-particle hydrodynamics. Physical Review E, 2015, 91, 053304.	0.8	66
134	Lattice Boltzmann approach for complex nonequilibrium flows. Physical Review E, 2015, 92, 043308.	0.8	75
135	Lattice Boltzmann model for resistive relativistic magnetohydrodynamics. Physical Review E, 2015, 92, 023309.	0.8	9
136	Quantum Simulator for Transport Phenomena in Fluid Flows. Scientific Reports, 2015, 5, 13153.	1.6	29
137	Immersed Boundary â€“ Thermal Lattice Boltzmann Methods for Non-Newtonian Flows Over a Heated Cylinder: A Comparative Study. Communications in Computational Physics, 2015, 18, 489-515.	0.7	35
138	Cooling Effect of the Richtmyer-Meshkov Instability. ESAIM Proceedings and Surveys, 2015, 52, 66-75.	0.5	0
139	Paradoxical ratcheting in cornstarch. Physics of Fluids, 2015, 27, 103101.	1.6	3
140	The Role of Very Low-Reynolds Hydrodynamics on the Transfer of Information Among Active Agents. Journal of Statistical Physics, 2015, 161, 1390-1403.	0.5	1
141	Novel risk predictor for thrombus deposition in abdominal aortic aneurysms. Europhysics Letters, 2015, 112, 28001.	0.7	5
142	Lattice Boltzmann Model for Electronic Structure Simulations. Journal of Physics: Conference Series, 2015, 640, 012018.	0.3	0
143	Entropy-Assisted Computing of Low-Dissipative Systems. Entropy, 2015, 17, 8099-8110.	1.1	11
144	Short-Lived Lattice Quasiparticles for Strongly Interacting Fluids. Entropy, 2015, 17, 6169-6178.	1.1	2

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145	Quantum lattice Boltzmann is a quantum walk. EPJ Quantum Technology, 2015, 2, .	2.9	28
146	High-order kinetic relaxation schemes as high-accuracy Poisson solvers. International Journal of Modern Physics C, 2015, 26, 1550055.	0.8	1
147	Rayleigh-BÃ©nard instability in graphene. Physical Review B, 2015, 91, .	1.1	15
148	Lattice Boltzmann Simulation of Mixed Convection Heat Transfer in a Driven Cavity with Non-uniform Heating of the Bottom Wall. Communications in Theoretical Physics, 2015, 63, 91-100.	1.1	18
149	Internal dynamics and activated processes in soft-glassy materials. Soft Matter, 2015, 11, 1271-1280.	1.2	18
150	Three-Dimensional Lattice Pseudo-Potentials for Multiphase Flow Simulations at High Density Ratios. Journal of Statistical Physics, 2015, 161, 1404-1419.	0.5	35
151	Nonlinear Langevin model for the early-stage dynamics of electrospinning jets. Molecular Physics, 2015, 113, 2435-2441.	0.8	9
152	Sub-ms dynamics of the instability onset of electrospinning. Soft Matter, 2015, 11, 3424-3431.	1.2	29
153	Discrete Boltzmann modeling of multiphase flows: hydrodynamic and thermodynamic non-equilibrium effects. Soft Matter, 2015, 11, 5336-5345.	1.2	115
154	Lattice Boltzmann 2038. Europhysics Letters, 2015, 109, 50001.	0.7	169
155	Tailoring boundary geometry to optimize heat transport in turbulent convection. Europhysics Letters, 2015, 111, 44005.	0.7	24
156	JETSPIN: A specific-purpose open-source software for simulations of nanofiber electrospinning. Computer Physics Communications, 2015, 197, 227-238.	3.0	19
157	Different regimes of the uniaxial elongation of electrically charged viscoelastic jets due to dissipative air drag. Mechanics Research Communications, 2015, 69, 97-102.	1.0	11
158	A multispeed Discrete Boltzmann Model for transcritical 2D shallow water flows. Journal of Computational Physics, 2015, 284, 117-132.	1.9	39
159	Lattice Boltzmann simulations of vortex entrapment of particles in a microchannel with curved or flat edges. Microfluidics and Nanofluidics, 2015, 18, 1165-1175.	1.0	12
160	Lattice Boltzmann modeling of water entry problems. International Journal of Modern Physics C, 2014, 25, 1441012.	0.8	34
161	Regularized lattice BGK versus highly accurate spectral methods for cavity flow simulations. International Journal of Modern Physics C, 2014, 25, 1441003.	0.8	16
162	Relativistic effects on the Richtmyer-Meshkov instability. Physical Review D, 2014, 90, .	1.6	6

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163	Relativistic lattice kinetic theory: Recent developments and future prospects. European Physical Journal: Special Topics, 2014, 223, 2177-2188.	1.2	17
164	Regularized lattice Bhatnagar-Gross-Krook model for two- and three-dimensional cavity flow simulations. Physical Review E, 2014, 89, 053317.	0.8	72
165	Ultrathin Fibers from Electrospinning Experiments under Driven Fast-Oscillating Perturbations. Physical Review Applied, 2014, 2, .	1.5	10
166	A NOTE ON THE LATTICE BOLTZMANN VERSUS FINITE-DIFFERENCE METHODS FOR THE NUMERICAL SOLUTION OF THE FISHER'S EQUATION. International Journal of Modern Physics C, 2014, 25, 1340015.	0.8	8
167	Lattice kinetic scheme for generalized coordinates and curved spaces. International Journal of Modern Physics C, 2014, 25, 1441001.	0.8	10
168	Polar-coordinate lattice Boltzmann modeling of compressible flows. Physical Review E, 2014, 89, 013307.	0.8	47
169	Hydrodynamics in Porous Media: A Finite Volume Lattice Boltzmann Study. Journal of Scientific Computing, 2014, 59, 80-103.	1.1	29
170	Finite volume formulation of thermal lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 270-289.	1.6	25
171	A hydro-kinetic scheme for the dynamics of hydrogen bonds in water-like fluids. Physical Chemistry Chemical Physics, 2014, 16, 15510.	1.3	8
172	Direct evidence of plastic events and dynamic heterogeneities in soft-glasses. Soft Matter, 2014, 10, 4615.	1.2	23
173	Kinetic Formulation of the Kohn-Sham Equations forabÂinitioElectronic Structure Calculations. Physical Review Letters, 2014, 113, 096402.	2.9	13
174	Effects of non-linear rheology on electrospinning process: A model study. Mechanics Research Communications, 2014, 61, 41-46.	1.0	18
175	Lattice Boltzmann method as a computational framework for multiscale haemodynamics. Mathematical and Computer Modelling of Dynamical Systems, 2014, 20, 470-490.	1.4	12
176	Scalar field inflation and Shan-Chen fluid models. Physical Review D, 2014, 90, .	1.6	4
177	Non-Newtonian unconfined flow and heat transfer over a heated cylinder using the direct-forcing immersed boundaryâ€“thermal lattice Boltzmann method. Physical Review E, 2014, 89, 053312.	0.8	34
178	Lattice Boltzmann modeling of water-like fluids. Frontiers in Physics, 2014, 2, .	1.0	8
179	Mesoscopic particle models of fluid flows. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 137-165.	0.3	0
180	Formal Analogy between the Dirac Equation in Its Majorana Form and the Discrete-Velocity Version of the Boltzmann Kinetic Equation. Physical Review Letters, 2013, 111, 160602.	2.9	25

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181	Direct numerical evidence of stress-induced cavitation. Journal of Fluid Mechanics, 2013, 728, 362-375.	1.4	51
182	Lattice Boltzmann implementation of the three-dimensional Ben-Naim potential for water-like fluids. Journal of Chemical Physics, 2013, 138, 124105.	1.2	2
183	Dark energy from cosmological fluids obeying a Shan-Chen nonideal equation of state. Physical Review D, 2013, 88, .	1.6	11
184	Regularization of the slip length divergence in water nanoflows by inhomogeneities at the Angstrom scale. Soft Matter, 2013, 9, 8526.	1.2	30
185	Universal mechanism for saturation of vorticity growth in fully developed fluid turbulence. Journal of Fluid Mechanics, 2013, 728, .	1.4	9
186	Effects of friction forces on the motion of objects in smoothly matched interior/exterior spacetimes. Classical and Quantum Gravity, 2013, 30, 025009.	1.5	3
187	Risk assessment of atherosclerotic plaques based on global biomechanics. Medical Engineering and Physics, 2013, 35, 1290-1297.	0.8	7
188	The Z-index: A geometric representation of productivity and impact which accounts for information in the entire rank-citation profile. Journal of Informetrics, 2013, 7, 823-832.	1.4	18
189	Lattice differential operators for computational physics. Europhysics Letters, 2013, 101, 50006.	0.7	24
190	Finite-volume lattice Boltzmann modeling of thermal transport in nanofluids. Computers and Fluids, 2013, 77, 56-65.	1.3	29
191	Hydrodynamic Model for Conductivity in Graphene. Scientific Reports, 2013, 3, 1052.	1.6	51
192	Two- and three-dimensional lattice Boltzmann simulations of particle migration in microchannels. Microfluidics and Nanofluidics, 2013, 15, 785-796.	1.0	19
193	Petaflop hydrokinetic simulations of complex flows on massive GPU clusters. Computer Physics Communications, 2013, 184, 329-341.	3.0	27
194	Isotropic discrete Laplacian operators from lattice hydrodynamics. Journal of Computational Physics, 2013, 234, 1-7.	1.9	62
195	Friction forces in cosmological models. European Physical Journal C, 2013, 73, 1.	1.4	6
196	QUASIEQUILIBRIUM LATTICE BOLTZMANN MODELS WITH TUNABLE PRANDTL NUMBER FOR INCOMPRESSIBLE HYDRODYNAMICS. International Journal of Modern Physics C, 2013, 24, 1340004.	0.8	19
197	Markovian equations of motion for non-Markovian coarse-graining and properties for graphene blobs. New Journal of Physics, 2013, 15, 125015.	1.2	4
198	Lattice Boltzmann Simulation of Cavitating Flows. Communications in Computational Physics, 2013, 13, 685-695.	0.7	33

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199	Lattice Boltzmann model for ultrarelativistic flows. Physical Review D, 2013, 87, .	1.6	24
200	Relativistic lattice Boltzmann model with improved dissipation. Physical Review D, 2013, 87, .	1.6	29
201	Rheological properties of soft-glassy flows from hydro-kinetic simulations. Europhysics Letters, 2013, 104, 48006.	0.7	15
202	MODELING FLUID FLOWS IN DISTENSIBLE TUBES FOR APPLICATIONS IN HEMODYNAMICS. International Journal of Modern Physics C, 2013, 24, 1350030.	0.8	6
203	ONE-DIMENSIONAL QUANTUM LATTICE BOLTZMANN SCHEME FOR THE NONLINEAR DIRAC EQUATION. International Journal of Modern Physics C, 2013, 24, 1340001.	0.8	3
204	Molecular Dynamics Simulations of Nanoparticle Interactions with a Planar Wall: Does Shape Matter?. Communications in Computational Physics, 2013, 13, 900-915.	0.7	2
205	Ultrarelativistic transport coefficients in two dimensions. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P02036.	0.9	16
206	Lattice Boltzmann Analysis of Fluid-Structure Interaction with Moving Boundaries. Communications in Computational Physics, 2013, 13, 823-834.	0.7	39
207	Energy Conserving Lattice Boltzmann Models for Incompressible Flow Simulations. Communications in Computational Physics, 2013, 13, 603-613.	0.7	11
208	Flow Through Randomly Curved Manifolds. Scientific Reports, 2013, 3, 3106.	1.6	16
209	Fluctuation-dissipation relation from a FLB-BGK model. Europhysics Letters, 2012, 99, 64001.	0.7	10
210	Radiation pressure vs. friction effects in the description of the Poynting-Robertson scattering process. Europhysics Letters, 2012, 97, 40007.	0.7	4
211	ANALOGY BETWEEN TURBULENCE AND QUANTUM GRAVITY: BEYOND KOLMOGOROV'S 1941 THEORY. International Journal of Modern Physics C, 2012, 23, 1250001.	0.8	0
212	KLEIN TUNNELING IN THE PRESENCE OF RANDOM IMPURITIES. International Journal of Modern Physics C, 2012, 23, 1250080.	0.8	8
213	Modeling Elastic Walls in Lattice Boltzmann Simulations of Arterial Blood Flow. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 936-941.	0.4	2
214	The Lattice Boltzmann Method and Multiscale Hemodynamics: Recent Advances and Perspectives. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 30-39.	0.4	6
215	Multiscale Hemodynamics Using GPU Clusters. Communications in Computational Physics, 2012, 11, 48-64.	0.7	14
216	Particle motion in a photon gas: friction matters. General Relativity and Gravitation, 2012, 44, 2669-2680.	0.7	7

#	Article	IF	Citations
217	Top-down vs. bottom-up coarse-graining of graphene and CNTs for nanodevice simulation. , 2012, , .		0
218	Interplay between Shape and Roughness in Early-Stage Microcapillary Imbibition. Langmuir, 2012, 28, 2596-2603.	1.6	35
219	A fluctuating lattice Boltzmann scheme for the one-dimensional KPZ equation. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4557-4563.	1.2	3
220	Particle scattering by a test fluid on a Schwarzschild spacetime: the equation of state matters. European Physical Journal C, 2012, 72, 1.	1.4	4
221	The emergence of supramolecular forces from lattice kinetic models of non-ideal fluids: applications to the rheology of soft glassy materials. Soft Matter, 2012, 8, 10773.	1.2	54
222	Mesoscopic simulation of non-ideal fluids with self-tuning of the equation of state. Soft Matter, 2012, 8, 3798.	1.2	69
223	Markovian dissipative coarse grained molecular dynamics for a simple 2D graphene model. Journal of Chemical Physics, 2012, 137, 234103.	1.2	7
224	Transition in the Equilibrium Distribution Function of Relativistic Particles. Scientific Reports, 2012, 2, 611.	1.6	14
225	Comment on â€œNumerics of the lattice Boltzmann method: Effects of collision models on the lattice Boltzmann simulationsâ€• Physical Review E, 2011, 84, 068701.	0.8	24
226	Lattice Boltzmann method for electromagnetic wave propagation. Europhysics Letters, 2011, 96, 14002.	0.7	16
227	Bottom-up coarse-graining of a simple graphene model: The blob picture. Journal of Chemical Physics, 2011, 134, 064106.	1.2	37
228	Lattice Boltzmann Methods for Multiphase Flow Simulations across Scales. Communications in Computational Physics, 2011, 9, 269-296.	0.7	68
229	Statistical regularities in the rank-citation profile of scientists. Scientific Reports, 2011, 1, 181.	1.6	56
230	Discrete simulation of fluid dynamics: methods. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2152-2154.	1.6	1
231	Discrete simulation of fluid dynamics: applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2384-2386.	1.6	3
232	A New Boundary Condition for Three-Dimensional Lattice Boltzmann Simulations of Capillary Filling in Rough Micro-Channels. Communications in Computational Physics, 2011, 9, 1284-1292.	0.7	15
233	Prospective Merger Between Car-Parrinello and Lattice Boltzmann Methods for Quantum Many-Body Simulations. Communications in Computational Physics, 2011, 9, 1137-1151.	0.7	1
234	Matrix lattice Boltzmann reloaded. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2202-2210.	1.6	6

#	Article	IF	Citations
235	Shear banding from lattice kinetic models with competing interactions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2439-2447.	1.6	1
236	Heterogeneous diffuse interfaces: A new mechanism for arrested coarsening in binary mixtures. European Physical Journal E, 2011, 34, 93.	0.7	1
237	Translocation of biomolecules through solidâ€state nanopores: Theory meets experiments. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 985-1011.	2.4	46
238	Three Routes to the Friction Matrix and Their Application to the Coarseâ€Graining of Atomic Lattices. Macromolecular Theory and Simulations, 2011, 20, 526-540.	0.6	24
239	Modelling wall shear stress in small arteries using the Lattice Boltzmann method: influence of the endothelial wall profile. Medical Engineering and Physics, 2011, 33, 832-839.	0.8	14
240	Modern lattice Boltzmann methods for multiphase microflows. IMA Journal of Applied Mathematics, 2011, 76, 712-725.	0.8	30
241	Towards a mesoscopic model of water-like fluids with hydrodynamic interactions. Journal of Chemical Physics, 2011, 135, 124902.	1.2	5
242	Preturbulent Regimes in Graphene Flow. Physical Review Letters, 2011, 106, 156601.	2.9	70
243	Relativistic lattice Boltzmann method for quark-gluon plasma simulations. Physical Review D, 2011, 84, .	1.6	19
244	Fully relativistic lattice Boltzmann algorithm. Physical Review C, 2011, 84, .	1.1	42
245	Isotropy of three-dimensional quantum lattice Boltzmann schemes. Physical Review E, 2011, 83, 046706.	0.8	23
246	Three-band decomposition analysis of wall shear stress in pulsatile flows. Physical Review E, 2011, 83, 031902.	0.8	15
247	Phase-Field Model of Long-Time Glasslike Relaxation in Binary Fluid Mixtures. Physical Review Letters, 2011, 106, 164501.	2.9	16
248	Endothelial shear stress from large-scale blood flow simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2354-2361.	1.6	9
249	MODELING OF BIFURCATION PHENOMENA IN SUDDENLY EXPANDED FLOWS WITH A NEW FINITE VOLUME LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2011, 22, 977-1003.	0.8	14
250	A flexible highâ€performance Lattice Boltzmann GPU code for the simulations of fluid flows in complex geometries. Concurrency Computation Practice and Experience, 2010, 22, 1-14.	1.4	95
251	Hydrokinetic approach to large-scale cardiovascular blood flow. Computer Physics Communications, 2010, 181, 462-472.	3.0	56
252	Three ways to lattice Boltzmann: A unified time-marching picture. Physical Review E, 2010, 81, 016311.	0.8	27

#	Article	IF	Citations
253	Lattice-Boltzmann simulations of repulsive particle-particle and particle-wall interactions: Coughing and choking. Journal of Chemical Physics, 2010, 132, 134111.	1.2	16
254	Magnetically driven droplet break-up and vaporization: a lattice Boltzmann study. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P05010.	0.9	6
255	Multiscale Simulation of Cardiovascular flows on the IBM Bluegene/P: Full Heart-Circulation System at Red-Blood Cell Resolution. , 2010, , .		27
256	Fast Lattice Boltzmann Solver for Relativistic Hydrodynamics. Physical Review Letters, 2010, 105, 014502.	2.9	112
257	A NOTE ON THE ANALOGY BETWEEN KOLMOGOROV TURBULENCE AND QUANTUM GRAVITY. International Journal of Modern Physics C, 2010, 21, 1329-1340.	0.8	1
258	UNSTRUCTURED LATTICE BOLTZMANN METHOD FOR HEMODYNAMIC FLOWS WITH SHEAR-DEPENDENT VISCOSITY. International Journal of Modern Physics C, 2010, 21, 795-811.	0.8	11
259	NUMERICAL SIMULATION OF QUANTUM STATE REDUCTION IN BOSEâ€“EINSTEIN CONDENSATES WITH ATTRACTIVE INTERACTIONS. International Journal of Modern Physics C, 2010, 21, 629-646.	0.8	1
260	Nanoflows through disordered media: A joint lattice Boltzmann and molecular dynamics investigation. Europhysics Letters, 2010, 89, 44001.	0.7	14
261	Herschel-Bulkley rheology from lattice kinetic theory of soft glassy materials. Europhysics Letters, 2010, 91, 14003.	0.7	24
262	Derivation of the lattice Boltzmann model for relativistic hydrodynamics. Physical Review D, 2010, 82, .	1.6	31
263	Lattice Boltzmann simulations of phase-separating flows at large density ratios: the case of doubly-attractive pseudo-potentials. Soft Matter, 2010, 6, 4357.	1.2	84
264	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
265	Improved Lattice Boltzmann Without Parasitic Currents for Rayleigh-Taylor Instability. Communications in Computational Physics, 2010, 7, 423-444.	0.7	50
266	Quantized biopolymer translocation through nanopores: Departure from simple scaling. Physical Review E, 2009, 79, 030901.	0.8	8
267	Corner liquid imbibition during capillary penetration in lithographically made microchannels. Applied Physics Letters, 2009, 94, 171901.	1.5	12
268	Mesoscopic Lattice Boltzmann Modeling of Flowing Soft Systems. Physical Review Letters, 2009, 102, 026002.	2.9	50
269	Lattice Boltzmann method with self-consistent thermo-hydrodynamic equilibria. Journal of Fluid Mechanics, 2009, 628, 299-309.	1.4	86
270	APPLICATIONS OF FINITE-DIFFERENCE LATTICE BOLTZMANN METHOD TO BREAKUP AND COALESCENCE IN MULTIPHASE FLOWS. International Journal of Modern Physics C, 2009, 20, 1803-1816.	0.8	16

#	Article	IF	Citations
271	Capillary filling with randomly coated walls. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, L02001.	0.9	2
272	Mesoscopic lattice Boltzmann modeling of soft-glassy systems: Theory and simulations. Journal of Chemical Physics, 2009, 131, .	1.2	83
273	Sensitivity of the active fracture model parameter to fracture network orientation and injection scenarios. Hydrogeology Journal, 2009, 17, 1347-1358.	0.9	7
274	MUPHY: A parallel MUlti PHYsics/scale code for high performance bio-fluidic simulations. Computer Physics Communications, 2009, 180, 1495-1502.	3.0	109
275	Prediction of coronary artery plaque progression and potential rupture from 320-detector row prospectively ECG-gated single heart beat CT angiography: Lattice Boltzmann evaluation of endothelial shear stress. International Journal of Cardiovascular Imaging, 2009, 25, 289-299.	0.7	54
276	Capillary filling using lattice Boltzmann equations: The case of multi-phase flows. European Physical Journal: Special Topics, 2009, 166, 111-116.	1.2	45
277	A note on equilibrium boundary conditions in lattice Boltzmann fluid dynamic simulations. European Physical Journal: Special Topics, 2009, 171, 213-221.	1.2	12
278	Capillary filling for multicomponent fluid using the pseudo-potential Lattice Boltzmann method. European Physical Journal: Special Topics, 2009, 171, 223-228.	1.2	16
279	Lattice Boltzmann simulations of capillary filling: Finite vapour density effects. European Physical Journal: Special Topics, 2009, 171, 237-243.	1.2	31
280	Capillary Filling in Microchannels with Wall Corrugations: A Comparative Study of the Concusâ"Finn Criterion by Continuum, Kinetic, and Atomistic Approaches. Langmuir, 2009, 25, 12653-12660.	1.6	43
281	Graphics processing unit implementation of lattice Boltzmann models for flowing soft systems. Physical Review E, 2009, 80, 066707.	0.8	29
282	Rupture of a ferrofluid droplet in external magnetic fields using a single-component lattice Boltzmann model for nonideal fluids. Physical Review E, 2009, 79, 056706.	0.8	18
283	Continuum free-energy formulation for a class of lattice Boltzmann multiphase models. Europhysics Letters, 2009, 86, 24005.	0.7	34
284	The unstructured lattice Boltzmann method for non-Newtonian flows. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P06005.	0.9	23
285	Numerical simulation of conformational variability in biopolymer translocation through wide nanopores. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P06009.	0.9	6
286	Hydrokinetic simulations of nanoscopic precursor films in rough channels. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P06007.	0.9	15
287	A LATTICE BOLTZMANN MODEL ON UNSTRUCTURED GRIDS WITH APPLICATION IN HEMODYNAMICS. , 2009, , .		0
288	Lattice Boltzmann across scales: from turbulence to DNA translocation. European Physical Journal B, 2008, 64, 471-479.	0.6	86

#	Article	IF	Citations
289	Multiscale simulations of complex systems: computation meets reality. Scientific Modeling and Simulation SMNS, 2008, 15, 59-65.	0.8	4
290	Multiscale Simulation of Nanobiological Flows. Computing in Science and Engineering, 2008, 10, 10-19.	1.2	19
291	Lattice Boltzmann spray-like fluids. Europhysics Letters, 2008, 82, 24005.	0.7	32
292	Analogy between capillary motion and Friedmann-Robertson-Walker cosmology. Europhysics Letters, 2008, 82, 34003.	0.7	8
293	Quantized Current Blockade and Hydrodynamic Correlations in Biopolymer Translocation through Nanopores: Evidence from Multiscale Simulations. Nano Letters, 2008, 8, 1115-1119.	4.5	30
294	MULTI-RELAXATION TIME LATTICE BOLTZMANN MODEL FOR MULTIPHASE FLOWS. International Journal of Modern Physics C, 2008, 19, 875-902.	0.8	32
295	Mass flux through asymmetric nanopores: Microscopic versus hydrodynamic motion. Journal of Chemical Physics, 2008, 129, 124717.	1.2	13
296	Evidence of thin-film precursors formation in hydrokinetic and atomistic simulations of nano-channel capillary filling. Europhysics Letters, 2008, 84, 44003.	0.7	39
297	MUPHY: A parallel high performance MUlti PHYsics/Scale code. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	2
298	Two-dimensional lattice Boltzmann simulation of colloid migration in rough-walled narrow flow channels. Physical Review E, 2008, 77, 031405.	0.8	19
299	Lattice Boltzmann models for nonideal fluids with arrested phase-separation. Physical Review E, 2008, 77, 036705.	0.8	39
300	Hydrodynamic correlations in the translocation of a biopolymer through a nanopore: Theory and multiscale simulations. Physical Review E, 2008, 78, 036704.	0.8	83
301	Duality in matrix lattice Boltzmann models. Physical Review E, 2008, 78, 066701.	0.8	33
302	Quantum lattice Boltzmann simulation of expanding Bose-Einstein condensates in random potentials. Physical Review E, 2008, 77, 066708.	0.8	47
303	Front pinning in capillary filling of chemically coated channels. Physical Review E, 2008, 78, 036305.	0.8	13
304	Parallel Multiscale Modeling of Biopolymer Dynamics with Hydrodynamic Correlations. International Journal for Multiscale Computational Engineering, 2008, 6, 25-37.	0.8	8
305	Multiscale simulations of complex systems: computation meets reality. Lecture Notes in Computational Science and Engineering, 2008, , 59-65.	0.1	0
306	MESOSCOPIC MODELLING OF FLUID FLOWS IN MICRO AND NANO CHANNEL. International Journal of Modern Physics C, 2007, 18, 758-765.	0.8	2

#	Article	IF	Citations
307	EXPLORING DNA TRANSLOCATION THROUGH A NANOPORE VIA A MULTISCALE LATTICE-BOLTZMANN MOLECULAR-DYNAMICS METHODOLOGY. International Journal of Modern Physics C, 2007, 18, 685-692.	0.8	13
308	LATTICEâ€"BOLTZMANN SIMULATION OF DENSE NANOFLOWS: A COMPARISON WITH MOLECULAR DYNAMICS AND NAVIERâ€"STOKES SOLUTIONS. International Journal of Modern Physics C, 2007, 18, 667-675.	0.8	11
309	Microscopic Simulation in Biology and Medicine. Current Medicinal Chemistry, 2007, 14, 625-637.	1.2	3
310	Lattice Boltzmann method for quantum field theory. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F559-F567.	0.7	7
311	Ground-state computation of Bose-Einstein condensates by an imaginary-time quantum lattice Boltzmann scheme. Physical Review E, 2007, 76, 036712.	0.8	39
312	Lattice gas modeling of nanowhisker growth. Physical Review E, 2007, 76, 031601.	0.8	6
313	Numerical validation of the quantum lattice Boltzmann scheme in two and three dimensions. Physical Review E, 2007, 75, 066704.	0.8	49
314	Generalized lattice Boltzmann method with multirange pseudopotential. Physical Review E, 2007, 75, 026702.	0.8	356
315	Density fluctuations in lattice-Boltzmann simulations of multiphase fluids in a closed system. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 691-698.	1.2	2
316	Wetting/dewetting transition of two-phase flows in nano-corrugated channels. Journal of Computer-Aided Materials Design, 2007, 14, 447-456.	0.7	6
317	Optimization Strategies for the Entropic Lattice Boltzmann Method. Journal of Scientific Computing, 2007, 30, 369-387.	1.1	18
318	Multiscale Modeling of Biopolymer Translocation Through a Nanopore. Lecture Notes in Computer Science, 2007, , 786-793.	1.0	0
319	Surface Roughness-Hydrophobicity Coupling in Microchannel and Nanochannel Flows. Physical Review Letters, 2006, 97, 204503.	2.9	181
320	Solving the Fokker-Planck kinetic equation on a lattice. Physical Review E, 2006, 73, 066707.	0.8	28
321	Multiscale Coupling of Molecular Dynamics and Hydrodynamics: Application to DNA Translocation through a Nanopore. Multiscale Modeling and Simulation, 2006, 5, 1156-1173.	0.6	88
322	Mesoscopic two-phase model for describing apparent slip in micro-channel flows. Europhysics Letters, 2006, 74, 651-657.	0.7	61
323	Mesoscopic modelling of heterogeneous boundary conditions for microchannel flows. Journal of Fluid Mechanics, 2006, 548, 257.	1.4	68
324	Mesoscopic modeling of a two-phase flow in the presence of boundaries: The contact angle. Physical Review E, 2006, 74, 021509.	0.8	243

#	Article	IF	Citations
325	Molecular Dynamics Simulation of Ratchet Motion in an Asymmetric Nanochannel. Physical Review Letters, 2006, 97, 144509.	2.9	31
326	Lattice Boltzmann versus Molecular Dynamics Simulation of Nanoscale Hydrodynamic Flows. Physical Review Letters, 2006, 96, 224503.	2.9	76
327	On the use of lattice Fokker-Planck models for hydrodynamics. Europhysics Letters, 2006, 75, 399-405.	0.7	3
328	Numerical analysis of the averaged flow field in a turbulent lattice Boltzmann simulation. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 6-10.	1.2	20
329	Lattice Boltzmann phase-field modelling of binary-alloy solidification. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 78-83.	1.2	49
330	Unstructured lattice Boltzmann equation with memory. Mathematics and Computers in Simulation, 2006, 72, 237-241.	2.4	19
331	Lattice BBGKY scheme for two-phase flows: One-dimensional case. Mathematics and Computers in Simulation, 2006, 72, 249-252.	2.4	9
332	Relaxation approximations and kinetic models of fluid turbulence. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 1-5.	1.2	8
333	Turbulence Effects on Kinetic Equations. Journal of Scientific Computing, 2006, 28, 459-466.	1.1	7
334	Numerical stability of Entropic versus positivity-enforcing Lattice Boltzmann schemes. Mathematics and Computers in Simulation, 2006, 72, 227-231.	2.4	30
335	Mesoscopic modelling of local phase transitions and apparent-slip phenomena in microflows. Mathematics and Computers in Simulation, 2006, 72, 84-88.	2.4	5
336	Boundary effects on the onset of nonlinear flow in porous domains. Europhysics Letters, 2006, 73, 858-863.	0.7	4
337	Discrete dispersion relations and the breaking of Lorentz invariance. Classical and Quantum Gravity, 2006, 23, 1989-1997.	1.5	4
338	Simulation of single-file ion transport with the lattice Fokker-Planck equation. Physical Review E, 2006, 73, 017701.	0.8	10
339	Lattice Boltzmann scheme for fluids with dynamic heterogeneities. Physical Review E, 2006, 73, 066709.	0.8	0
340	A note on the lattice Boltzmann method beyond the Chapman-Enskog limits. Europhysics Letters, 2006, 73, 370-376.	0.7	35
341	Superradiance from hydrodynamic vortices: A numerical study. Physical Review A, 2006, 73, .	1.0	41
342	LATTICE FOKKERâ€“PLANCK EQUATION. International Journal of Modern Physics C, 2006, 17, 459-470.	0.8	7

#	Article	IF	Citations
343	A COMPARISON OF SINGLE-TIME RELAXATION LATTICE BOLTZMANN SCHEMES WITH ENHANCED STABILITY. International Journal of Modern Physics C, 2006, 17, 1375-1390.	0.8	5
344	Recent advances of Lattice Boltzmann techniques on unstructured grids. Progress in Computational Fluid Dynamics, 2005, 5, 85.	0.1	79
345	Computational modeling of the immune response to tumor antigens. Journal of Theoretical Biology, 2005, 237, 390-400.	0.8	21
346	Simulating the G-protein cAMP pathway with a two-compartment reactive lattice gas. Theory in Biosciences, 2005, 123, 413-429.	0.6	1
347	Lattice Boltzmannâ€“Poisson method for electrorheological nanoflows in ion channels. Computer Physics Communications, 2005, 169, 203-206.	3.0	8
348	Unstructured lattice Boltzmann method in three dimensions. International Journal for Numerical Methods in Fluids, 2005, 49, 619-633.	0.9	48
349	A multi-relaxation lattice kinetic method for passive scalar diffusion. Journal of Computational Physics, 2005, 206, 453-462.	1.9	94
350	Lattice Mesoscopic Model of Dynamically Heterogeneous Fluids. Physical Review Letters, 2005, 95, 224502.	2.9	4
351	Analytical calculation of slip flow in lattice Boltzmann models with kinetic boundary conditions. Physics of Fluids, 2005, 17, 093602.	1.6	156
352	Phase-field lattice kinetic scheme for the numerical simulation of dendritic growth. Physical Review E, 2005, 72, 066705.	0.8	61
353	Energy dissipation measures in three-dimensional disordered porous media. Physical Review E, 2005, 72, 046705.	0.8	6
354	Excised acoustic black holes: The scattering problem in the time domain. Physical Review D, 2005, 72, .	1.6	32
355	Lattice Boltzmann Methods for Multiscale Fluid Problems. , 2005, , 2475-2486.		2
356	Bose-Einstein Condensates and the Numerical Solution of the Gross-Pitaevskii Equation. Computing in Science and Engineering, 2005, 7, 48-57.	1.2	10
357	Lattice Boltzmann method at finite Knudsen numbers. Europhysics Letters, 2005, 69, 549-555.	0.7	127
358	Lattice Boltzmann Methods for Multiscale Fluid Problems. , 2005, , 2475-2486.		0
359	Direct Simulation of Fluid Transport at Solid Interfaces with a Multiscale Lattice-Boltzmann Finite-Volume Method. Applied Rheology, 2004, 14, 12-21.	3.5	0
360	Transition to hydrodynamics in colliding fermion clouds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, S91-S99.	0.6	13

#	Article	IF	Citations
361	Electrorheology in nanopores via lattice Boltzmann simulation. Journal of Chemical Physics, 2004, 120, 4492-4497.	1.2	42
362	Effects of collisions against thermal impurities in the dynamics of a trapped fermion gas. Physical Review A, 2004, 70, .	1.0	4
363	Lattice Boltzmann schemes without coordinates. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1763-1771.	1.6	24
364	Computational modeling of the immune response to tumor antigens: implications for vaccination. , 2004, , .		0
365	A lattice Boltzmann model with random dynamical constraints. European Physical Journal B, 2004, 39, 241-247.	0.6	2
366	Simulating two-dimensional thermal channel flows by means of a lattice Boltzmann method with new boundary conditions. Future Generation Computer Systems, 2004, 20, 935-944.	4.9	92
367	A lattice Boltzmann study of non-hydrodynamic effects in shell models of turbulence. Physica D: Nonlinear Phenomena, 2004, 197, 303-312.	1.3	1
368	Numerical methods for atomic quantum gases with applications to Boseâ€“Einstein condensates and to ultracold fermions. Physics Reports, 2004, 395, 223-355.	10.3	125
369	Kinetic theory of turbulence modeling: smallness parameter, scaling and microscopic derivation of Smagorinsky model. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 379-394.	1.2	46
370	Expanded analogy between Boltzmann kinetic theory of fluids and turbulence. Journal of Fluid Mechanics, 2004, 519, 301-314.	1.4	279
371	A particleâ€“dynamics study of dissipation in colliding clouds of ultracold fermions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1605-1612.	1.6	2
372	Extended Boltzmann Kinetic Equation for Turbulent Flows. Science, 2003, 301, 633-636.	6.0	621
373	Lattice Boltzmann model with hierarchical interactions. Physica A: Statistical Mechanics and Its Applications, 2003, 325, 477-484.	1.2	4
374	Boundary Conditions for Thermal Lattice Boltzmann Simulations. Lecture Notes in Computer Science, 2003, , 977-986.	1.0	29
375	Lattice Boltzmann method on unstructured grids: Further developments. Physical Review E, 2003, 68, 016701.	0.8	95
376	Lattice Boltzmann simulation of open flows with heat transfer. Physics of Fluids, 2003, 15, 2778-2781.	1.6	65
377	Dynamics of trapped two-component Fermi gas: Temperature dependence of the transition from collisionless to collisional regime. Physical Review A, 2003, 67, .	1.0	23
378	Galilean-invariant lattice-Boltzmann models withHtheorem. Physical Review E, 2003, 68, 025103.	0.8	80

#	Article	IF	Citations
379	A LATTICE BOLTZMANN FOR DISORDERED FLUIDS. International Journal of Modern Physics B, 2003, 17, 145-148.	1.0	18
380	ACCELERATED LATTICE BOLTZMANN SCHEME FOR STEADY-STATE FLOWS. International Journal of Modern Physics B, 2003, 17, 1-7.	1.0	20
381	Lattice Boltzmann Simulation of Thermal Microflows with Heterogenuous Catalysis. Lecture Notes in Computer Science, 2003, , 957-966.	1.0	1
382	Intracellular signal propagation in a two-dimensional autocatalytic reaction model. Physical Review E, 2002, 66, 031905.	0.8	6
383	Mesoscopic Modeling of Slip Motion at Fluid-Solid Interfaces with Heterogeneous Catalysis. Physical Review Letters, 2002, 89, 064502.	2.9	303
384	Polymer dynamics in wall turbulent flow. Europhysics Letters, 2002, 58, 616-622.	0.7	30
385	Energy dissipation and permeability in porous media. Europhysics Letters, 2002, 60, 72-78.	0.7	20
386	Lattice Boltzmann equation for relativistic quantum mechanics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 429-436.	1.6	12
387	COMPUTING STEADY STATE FLOWS WITH AN ACCELERATED LATTICE BOLTZMANN TECHNIQUE. International Journal of Modern Physics C, 2002, 13, 675-687.	0.8	13
388	Kinetic Approach to Lattice Quantum Mechanics. Lecture Notes in Computer Science, 2002, , 114-122.	1.0	3
389	Colloquium: Role of theHtheorem in lattice Boltzmann hydrodynamic simulations. Reviews of Modern Physics, 2002, 74, 1203-1220.	16.4	179
390	Dissipative Quantum Dynamics from Wigner Distributions. AIP Conference Proceedings, 2002, , .	0.3	2
391	Explicit Finite-Difference and Particle Method for the Dynamics of Mixed Bose-Condensate and Cold-Atom Clouds. Journal of Computational Physics, 2002, 182, 368-391.	1.9	6
392	A lattice Boltzmann study of reactive microflows. Computer Physics Communications, 2002, 147, 516-521.	3.0	9
393	Lattice Boltzmann schemes for quantum applications. Computer Physics Communications, 2002, 146, 317-323.	3.0	16
394	A Lattice Boltzmann Model for Anisotropic Crystal Growth from Melt. Journal of Statistical Physics, 2002, 107, 173-186.	0.5	85
395	Lattice Boltzmann Simulation of Reactive Microflows over Catalytic Surfaces. Journal of Statistical Physics, 2002, 107, 343-366.	0.5	21
396	Electronic Structure Calculations Using Self-Adaptive Multiscale Voronoi Basis Functions. Journal of Statistical Physics, 2002, 107, 159-171.	0.5	1

#	Article	IF	Citations
397	Towards a Renormalized Lattice Boltzmann Equation for Fluid Turbulence. Journal of Statistical Physics, 2002, 107, 261-278.	0.5	32
398	Go-with-the-Flow Lattice Boltzmann Methods for Tracer Dynamics. Lecture Notes in Physics, 2002, , 267-285.	0.3	1
399	Lattice Boltzmann Model for Anisotropic Liquid-Solid Phase Transition. Physical Review Letters, 2001, 86, 3578-3581.	2.9	147
400	Chemical efficiency of reactive microflows with heterogeneous catalysis: a lattice Boltzmann study. EPJ Applied Physics, 2001, 16, 71-84.	0.3	13
401	Applying the lattice Boltzmann equation to multiscale fluid problems. Computing in Science and Engineering, 2001, 3, 26-37.	1.2	70
402	Multiscale Lattice Boltzmann Schemes with Turbulence Modeling. Journal of Computational Physics, 2001, 170, 812-829.	1.9	75
403	Accelerated Lattice Boltzmann Schemes for Steady-State Flow Simulations. Journal of Scientific Computing, 2001, 16, 135-144.	1.1	28
404	Probing the energy bands of a Bose-Einstein condensate in an optical lattice. Physical Review A, 2001, 63, .	1.0	12
405	Turbomachine flow simulations with a multiscale Lattice Boltzmann Method. , 2001, , 383-390.		0
406	Particle-inspired scheme for the Grossâ€“Pitaevski equation: An application to Boseâ€“Einstein condensation. Computer Physics Communications, 2000, 129, 82-90.	3.0	22
407	Resummation techniques in the kinetic-theoretical approach to subgrid turbulence modeling. Physica A: Statistical Mechanics and Its Applications, 2000, 280, 92-98.	1.2	13
408	Multi-Representation Techniques for Multi-Scale Simulation: Reactive Microflows in a Catalytic Converter. Molecular Simulation, 2000, 25, 13-26.	0.9	4
409	Large-scale cellular automata simulations of the immune system response. Physical Review E, 2000, 61, 1851-1854.	0.8	18
410	Ground state of trapped interacting Bose-Einstein condensates by an explicit imaginary-time algorithm. Physical Review E, 2000, 62, 7438-7444.	0.8	270
411	Numerical solution of the Gross-Pitaevskii equation using an explicit finite-difference scheme:â€ƒAn application to trapped Bose-Einstein condensates. Physical Review E, 2000, 62, 1382-1389.	0.8	115
412	Supersymmetry solution for finitely extensible dumbbell model. Europhysics Letters, 2000, 51, 355-360.	0.7	8
413	MULTISCALE LATTICE BOLTZMANN SCHEMES: A PRELIMINARY APPLICATION TO AXIAL TURBOMACHINE FLOW SIMULATIONS. International Journal of Modern Physics C, 2000, 11, 233-245.	0.8	7
414	Intermittency and Structure Functions in Channel Flow Turbulence. Physical Review Letters, 1999, 82, 5044-5047.	2.9	84

#	Article	IF	Citations
415	Analysis of subgrid scale turbulence using the Boltzmann Bhatnagar-Gross-Krook kinetic equation. Physical Review E, 1999, 59, R2527-R2530.	0.8	42
416	Lattice Boltzmann Method for Irregular Grids. Physical Review Letters, 1999, 82, 5245-5248.	2.9	23
417	Output coupling of Bose condensates from atomic tunnel arrays: a numerical study. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 260, 86-93.	0.9	16
418	A high performance simulator of the immune response. Future Generation Computer Systems, 1999, 15, 333-342.	4.9	13
419	Preliminary analysis of the scaling exponents in channel flow turbulence. Fluid Dynamics Research, 1999, 24, 201-209.	0.6	11
420	Learning cascade in the immune system dynamics: a numerical simulation. Computer Physics Communications, 1999, 121-122, 122-125.	3.0	0
421	Digital Physics Simulations of Reactive Flow in a Catalytic Converter. Journal of Scientific Computing, 1999, 14, 211-222.	1.1	0
422	An Integer Lattice Realization of a Lax Scheme for Transport Processes in Multiple Component Fluid Flows. Journal of Computational Physics, 1999, 152, 493-516.	1.9	34
423	Nonlinear Stability of Compressible Thermal Lattice BGK Models. SIAM Journal of Scientific Computing, 1999, 21, 366-377.	1.3	24
424	Intermittency and eddy viscosities in dynamical models of turbulence. Physics of Fluids, 1999, 11, 1221-1228.	1.6	7
425	Intermittency in channel-flow turbulence. , 1999, , 313-318.		1
426	Lattice Quantum Mechanics: An Application to Boseâ€“Einstein Condensation. International Journal of Modern Physics C, 1998, 09, 1577-1585.	0.8	32
427	Maximum Entropy Principle for Lattice Kinetic Equations. Physical Review Letters, 1998, 81, 6-9.	2.9	145
428	Equilibria for discrete kinetic equations. Physical Review E, 1998, 58, R4053-R4056.	0.8	28
429	Thermohydrodynamic lattice BGK schemes with non-perturbative equilibria. Europhysics Letters, 1998, 41, 279-284.	0.7	34
430	Mesoscopic Models of Liquid/Solid Phase Transitions. International Journal of Modern Physics C, 1998, 09, 1405-1415.	0.8	57
431	A parallel simulator of the immune response. Lecture Notes in Computer Science, 1998, , 161-172.	1.0	2
432	A Lattice Boltzmann Scheme for Semiconductor Dynamics. VLSI Design, 1998, 6, 137-140.	0.5	1

#	Article	IF	Citations
433	Scaling Exponents in Turbulent Channel Flow. Fluid Mechanics and Its Applications, 1998, , 159-162.	0.1	2
434	International symmetries of lattice hydrodynamics. European Physical Journal Special Topics, 1998, 08, Pr6-271-Pr6-275.	0.2	0
435	Simulating the Immune Response on a Distributed Parallel Computer. International Journal of Modern Physics C, 1997, 08, 527-545.	0.8	43
436	Collective Dynamics in the Immune System Response. Physical Review Letters, 1997, 79, 4493-4496.	2.9	10
437	Extended self-similarity in boundary layer turbulence. Physical Review E, 1997, 55, 6985-6988.	0.8	16
438	Massively Parallel Lattice-Boltzmann Simulation of Turbulent Channel Flow. International Journal of Modern Physics C, 1997, 08, 869-877.	0.8	78
439	Clustering Instability in Granular Gases: A Mesoscopic Investigation. International Journal of Modern Physics C, 1997, 08, 999-1008.	0.8	2
440	Lattice Boltzmann equation: Failure or success?. Physica A: Statistical Mechanics and Its Applications, 1997, 240, 221-228.	1.2	17
441	Lattice Kinetic Theory for Numerical Combustion. Journal of Scientific Computing, 1997, 12, 395-408.	1.1	49
442	Turbulent channel flow simulations using a coarse-grained extension of the lattice Boltzmann method. Fluid Dynamics Research, 1997, 19, 289-302.	0.6	32
443	Numerical solution of the SchrÃ¶dinger equation using discrete kinetic theory. Physical Review E, 1996, 53, 1969-1975.	0.8	82
444	Case report: Fibroma of tendon sheath in the distal forearm with associated median nerve neuropathy: US, CT and MR appearances. Clinical Radiology, 1996, 51, 370-372.	0.5	35
445	Challenges in lattice Boltzmann computing. Journal of Statistical Physics, 1995, 81, 5-16.	0.5	87
446	Reply to â€˜â€˜Comment on â€˜Extended self-similarity in turbulent flowsâ€™ â€™â€™. Physical Review E, 1995, 51, 2672-2673.	0.8	1
447	RECENT ADVANCES IN LATTICE BOLTZMANN COMPUTING. , 1995, , 195-242.		185
448	Two-Dimensional Navier-Stokes Simulation of Deformation and Breakup of Liquid Patches. Physical Review Letters, 1995, 75, 244-247.	2.9	63
449	Extended Self Similarity and Convective Turbulence. Fluid Mechanics and Its Applications, 1995, , 26-30.	0.1	0
450	The finite volume formulation of the Lattice Boltzmann equation. Transport Theory and Statistical Physics, 1994, 23, 163-171.	0.4	7

#	Article	IF	Citations
451	Scaling Behaviour of the Velocity and Temperature Correlation Functions in 3D Convective Turbulence. Europhysics Letters, 1994, 28, 231-236.	0.7	14
452	On the Scaling of the Velocity and Temperature Structure Functions in Rayleigh-BÃ©nard Convection. Europhysics Letters, 1994, 25, 341-346.	0.7	53
453	Extended self-similarity in the numerical simulation of three-dimensional homogeneous flows. Physical Review E, 1994, 50, R1745-R1747.	0.8	47
454	Lattice Boltzmann method on a cluster of IBM RISC system/6000 workstations. Concurrency and Computation: Practice and Experience, 1993, 5, 359-366.	0.6	3
455	Lattice Boltzmann equation for quantum mechanics. Physica D: Nonlinear Phenomena, 1993, 69, 327-332.	1.3	174
456	On the small-scale dynamical behavior of lattice BGK and lattice Boltzmann schemes. Journal of Scientific Computing, 1993, 8, 219-230.	1.1	14
457	Exponential Tails in Two-Dimensional Rayleigh-BÃ©nard Convection. Europhysics Letters, 1993, 21, 305-310.	0.7	81
458	A REVIEW OF THE LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 1993, 04, 409-415.	0.8	12
459	Extended self-similarity in turbulent flows. Physical Review E, 1993, 48, R29-R32.	0.8	846
460	Fluctuation Correlations in Reaction-Diffusion Systems: Reactive Lattice Gas Automata Approach. Europhysics Letters, 1992, 20, 627-632.	0.7	16
461	The Lattice Boltzmann Equation: Theory and Application. NATO ASI Series Series B: Physics, 1992, , 187-203.	0.2	7
462	Internal combustion engine design on IBM platforms. IBM Systems Journal, 1992, 31, 774-787.	3.1	1
463	Diffusion and hydrodynamic dispersion with the lattice Boltzmann method. Physical Review A, 1992, 45, 5771-5774.	1.0	74
464	The lattice Boltzmann equation: theory and applications. Physics Reports, 1992, 222, 145-197.	10.3	1,789
465	The lattice Boltzmann equation on irregular lattices. Journal of Statistical Physics, 1992, 68, 401-407.	0.5	175
466	Lattice Boltzmann scheme for two-dimensional magnetohydrodynamics. Physical Review A, 1991, 43, 4521-4524.	1.0	47
467	The lattice Boltzmann equation: A new tool for computational fluid-dynamics. Physica D: Nonlinear Phenomena, 1991, 47, 219-230.	1.3	206
468	Three-dimensional visualization of many-body system dynamics. IBM Journal of Research and Development, 1991, 35, 254-269.	3.2	1

#	Article	IF	Citations
469	Microscopic and Mesoscopic Simulations of Complex Flows with Cellular Automata and Related Techniques. , 1991, , 1031-1054.		1
470	RECENT ADVANCES IN THE THEORY OF THE LATTICE BOLTZMANN EQUATION. , 1991, , .		0
471	Numerical simulations of ion temperature gradientâ€driven turbulence. Physics of Fluids B, 1990, 2, 67-74.	1.7	55
472	The lattice Boltzmann equation for turbulence. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 708-711.	0.5	1
473	Flow through geometrically irregular media with lattice gas automata. Meccanica, 1990, 25, 253-257.	1.2	7
474	On the Hydrodynamic Behaviour of the Lattice Boltzmann Equation. Europhysics Letters, 1990, 13, 411-416.	0.7	27
475	Turbulence Modelling by Nonhydrodynamic Variables. Europhysics Letters, 1990, 13, 727-732.	0.7	25
476	Two-dimensional turbulence with the lattice Boltzmann equation. Journal of Physics A, 1990, 23, L1-L5.	1.6	40
477	The permeability of a random medium: Comparison of simulation with theory. Physics of Fluids A, Fluid Dynamics, 1990, 2, 2085-2088.	1.6	168
478	Hydrodynamic behaviour of the Lattice Boltzmann Equation. , 1990, , 39-48.		2
479	A four-color parallel algorithm for the solution of a two-dimensional advection-diffusion equation with the finite element method. Journal of Scientific Computing, 1989, 4, 61-70.	1.1	3
480	Finite element modelling of weak plasma turbulence. Computer Methods in Applied Mechanics and Engineering, 1989, 75, 543-556.	3.4	0
481	Iterative algorithms for the solution of nonsymmetric systems in the modelling of weak plasma turbulence. Journal of Computational Physics, 1989, 80, 489-497.	1.9	11
482	Bifurcations of a lattice gas flow under external forcing. Journal of Statistical Physics, 1989, 56, 69-81.	0.5	9
483	Three-Dimensional Flows in Complex Geometries with the Lattice Boltzmann Method. Europhysics Letters, 1989, 10, 433-438.	0.7	355
484	Lattice Gas Dynamics with Enhanced Collisions. Europhysics Letters, 1989, 9, 345-349.	0.7	800
485	Simulating the Flow Around a Circular Cylinder with a Lattice Boltzmann Equation. Europhysics Letters, 1989, 8, 517-521.	0.7	116
486	Lattice-gas hydrodynamics on the IBM 3090 Vector Facility. IBM Journal of Research and Development, 1989, 33, 136-148.	3.2	1

#	Article	IF	Citations
487	High-Resolution Lattice-Gas Simulation of Two-Dimensional Turbulence. Physical Review Letters, 1988, 60, 2738-2740.	2.9	32
488	Triangular versus square lattice gas automata for the analysis of two-dimensional vortex fields. Journal of Physics A, 1988, 21, L43-L49.	1.6	1
489	An investigation of fractal dimensions in two-dimensional lattice gas turbulence. Journal of Physics A, 1988, 21, L771-L776.	1.6	0
490	Self-similar evolution of one-dimensional Fokker-Planck systems. Physical Review A, 1987, 36, 5020-5024.	1.0	3
491	Cellular automata modeling on IBM 3090/VF. Computer Physics Communications, 1987, 47, 173-180.	3.0	8
492	Finite elements applied to plasma waves. Computer Physics Reports, 1987, 6, 335-349.	2.3	1
493	Current generation in fusion plasmas by injection of radiofrequency waves: Finite-element models on IBM 3090/VF. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1987, 9, 517-539.	0.4	0
494	Computing of RF heating and current drive in Tokamaks. Computer Physics Communications, 1986, 43, 125-141.	3.0	15
495	Computational models for wave-particle interactions. Computer Physics Communications, 1986, 40, 137-151.	3.0	17
496	Similarity solutions of the one-dimensional Fokker-Planck equation. Physical Review A, 1986, 33, 4419-4422.	1.0	7
497	Effects of anisotropic scattering on the distribution of charged particles in an electric field. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1985, 85, 208-216.	0.2	1
498	Generation of superthermal electrons interacting with waves in lower-hybrid range of frequency revisited. Plasma Physics and Controlled Fusion, 1985, 27, 863-871.	0.9	14
499	MHD-Limits to Plasma Confinement. Plasma Physics and Controlled Fusion, 1984, 26, 209-215.	0.9	557
500	On the generation of superthermal electrons in lower-hybrid current-drive experiments. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 106, 137-139.	0.9	9
501	Integral form of the Boltzmann equation for the forced diffusion of charged particles in anisotropically scattering media. Meccanica, 1981, 16, 67-74.	1.2	1
502	Levy-flight cellular automata on the IBM RISC-6000 workstation. , 0, , .		1
503	Mass Transfer Improvements in Catalytic Converter Channels: An Hybrid BGK-Finite Volume Numerical Simulation Method. , 0, , .		3
504	Three-stage multiscale modelling of the NMDA neuroreceptor. Molecular Physics, 0, , e1928312.	0.8	0