

Yong Shi

List of Publications by Year in descending order

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36
papers

1,515
citations

489802

18
h-index

466096

32
g-index

36
all docs

36
docs citations

36
times ranked

1654
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermophoretic collection of virus-laden (SARS-CoV-2) aerosols. <i>Biomicrofluidics</i> , 2021, 15, 024101.	1.2	3
2	Data-Driven Approaches for Prediction and Classification of Building Energy Consumption. <i>Sustainable Development Goals Series</i> , 2021, , 11-45.	0.2	0
3	A lithium-ion battery-thermal-management design based on phase-change-material thermal storage and spray cooling. <i>Applied Thermal Engineering</i> , 2020, 168, 114792.	3.0	98
4	Heat-pipe based spray-cooling thermal management system for lithium-ion battery: Experimental study and optimization. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120494.	2.5	52
5	Linearized lattice Boltzmann Method for time periodic electro-osmotic flows in micro- and nanochannels. <i>Physics of Fluids</i> , 2020, 32, 082006.	1.6	6
6	Synergetic treatment of dye contaminated wastewater using microparticles functionalized with carbon nanotubes/titanium dioxide nanocomposites. <i>RSC Advances</i> , 2020, 10, 9210-9225.	1.7	20
7	Newtonian flow inside carbon nanotube with permeable boundary taking into account van der Waals forces. <i>Scientific Reports</i> , 2019, 9, 12121.	1.6	5
8	Numerical study on inertial effects on liquid-vapor flow using lattice Boltzmann method. <i>Energy Procedia</i> , 2019, 160, 428-435.	1.8	0
9	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
10	Origin of spurious oscillations in lattice Boltzmann simulations of oscillatory noncontinuum gas flows. <i>Physical Review E</i> , 2019, 100, 053317.	0.8	6
11	Block iterative frequency-based lattice Boltzmann algorithm for microscale oscillatory flow. <i>Computers and Fluids</i> , 2018, 167, 196-205.	1.3	4
12	A review of data-driven approaches for prediction and classification of building energy consumption. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1027-1047.	8.2	488
13	LATTICE BOLTZMANN MIXTURE MODEL FOR LIQUID-VAPOR FLOW WITH PHASE CHANGE IN POROUS MEDIA. , 2018, , .		1
14	Cluster analysis for occupant-behavior based electricity load patterns in buildings: A case study in Shanghai residences. <i>Building Simulation</i> , 2017, 10, 889-898.	3.0	52
15	Lattice Boltzmann simulation of flow and heat transfer in random porous media constructed by simulated annealing algorithm. <i>Applied Thermal Engineering</i> , 2017, 115, 1348-1356.	3.0	20
16	Analysis of Liquidâ€“Liquid Droplets Fission and Encapsulation in Single/Two Layer Microfluidic Devices Fabricated by Xurographic Method. <i>Micromachines</i> , 2017, 8, 49.	1.4	24
17	Bipolarly stacked electrolyser for energy and space efficient fabrication of supercapacitor electrodes. <i>Journal of Power Sources</i> , 2016, 307, 208-213.	4.0	9
18	Linearized lattice Boltzmann method for micro- and nanoscale flow and heat transfer. <i>Physical Review E</i> , 2015, 92, 013307.	0.8	16

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19	Lattice Boltzmann method for linear oscillatory noncontinuum flows. <i>Physical Review E</i> , 2014, 89, 033305.	0.8	12
20	Accuracy of the lattice Boltzmann method for low-speed noncontinuum flows. <i>Physical Review E</i> , 2011, 83, 045701.	0.8	30
21	Lattice Boltzmann method for oscillatory Stokes flow with applications to micro- and nanodevices. <i>Physical Review E</i> , 2010, 81, 036706.	0.8	21
22	Advances in the Study on the Micro/Nanoscale Transport of DNA Molecule Fluids by Using Multi-scale Algorithm. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2010, 46, 143.	0.7	0
23	Numerical simulations of the equilibrium shape of liquid droplets on gradient surfaces. <i>Applied Thermal Engineering</i> , 2009, 29, 372-379.	3.0	10
24	Simplified model and lattice Boltzmann algorithm for microscale electro-osmotic flows and heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 586-596.	2.5	13
25	Lattice Boltzmann Simulation of Thermal Electro-Osmotic Flows in Micro/Nanochannels. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008, 5, 236-246.	0.4	10
26	Lattice Boltzmann simulation of dense gas flows in microchannels. <i>Physical Review E</i> , 2007, 76, 016707.	0.8	18
27	Generalized hydrodynamic model for fluid flows: From nanoscale to macroscale. <i>Physics of Fluids</i> , 2006, 18, 067107.	1.6	32
28	Finite difference-based lattice Boltzmann simulation of natural convection heat transfer in a horizontal concentric annulus. <i>Computers and Fluids</i> , 2006, 35, 1-15.	1.3	58
29	Simulation of fluid flows in the nanometer: kinetic approach and molecular dynamic simulation. <i>International Journal of Computational Fluid Dynamics</i> , 2006, 20, 361-367.	0.5	15
30	Physical symmetry, spatial accuracy, and relaxation time of the lattice Boltzmann equation for microgas flows. <i>Journal of Applied Physics</i> , 2006, 99, 074903.	1.1	165
31	Lattice Boltzmann method for incompressible flows with large pressure gradients. <i>Physical Review E</i> , 2006, 73, 026704.	0.8	24
32	Simple kinetic model for fluid flows in the nanometer scale. <i>Physical Review E</i> , 2005, 71, 035301.	0.8	35
33	Temperature dependence of the velocity boundary condition for nanoscale fluid flows. <i>Physical Review E</i> , 2005, 72, 036301.	0.8	22
34	A lattice Boltzmann algorithm for electro-osmotic flows in microfluidic devices. <i>Journal of Chemical Physics</i> , 2005, 122, 144907.	1.2	72
35	Thermal lattice Bhatnagar-Gross-Krook model for flows with viscous heat dissipation in the incompressible limit. <i>Physical Review E</i> , 2004, 70, 066310.	0.8	111
36	Preconditioned lattice-Boltzmann method for steady flows. <i>Physical Review E</i> , 2004, 70, 066706.	0.8	60