Cheng Peng

List of Publications by Year
in descending order

55 papers	1,267 citations	471061 17 h-index	395343 33 g-index
61 all docs	61 docs citations	61 times ranked	1083 citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass-assisted approach for large-scale construction of multi-functional isolated single-atom site catalysts. Nano Research, 2022, 15, 3980-3990.	5.8	20
2	Model-based evaluation of alternative reactive class closure strategies against COVID-19. Nature Communications, 2022, 13, 322.	5.8	17
3	Investigating vaccine-induced immunity and its effect in mitigating SARS-CoV-2 epidemics in China. BMC Medicine, 2022, 20, 37.	2.3	10
4	Global diversity of policy, coverage, and demand of COVID-19 vaccines: a descriptive study. BMC Medicine, 2022, 20, 130.	2.3	26
5	Modeling transmission of SARS-CoV-2 Omicron in China. Nature Medicine, 2022, 28, 1468-1475.	15.2	177
6	Estimation of the dissipation rate of turbulent kinetic energy: A review. Chemical Engineering Science, 2021, 229, 116133.	1.9	66
7	A thermodynamically consistent pseudo-potential lattice Boltzmann model for multi-component, multiphase, partially miscible mixtures. Journal of Computational Physics, 2021, 429, 110018.	1.9	15
8	Metal-free hydroalkoxylation of ynesulfonamides with esters. Organic and Biomolecular Chemistry, 2021, 19, 2182-2185.	1.5	12
9	Effects of Benzene Ring and Polar Group on the Conductivity Characteristics of Polyethylene Matrix Composites. , 2021, , .		0
10	Direct Numerical Simulation of Sediment Transport in Turbulent Open Channel Flow Using the Lattice Boltzmann Method. Fluids, 2021, 6, 217.	0.8	4
11	Influence of particle-fluid density ratio on the dynamics of finite-size particles in homogeneous isotropic turbulent flows. Physical Review E, 2021, 104, 025109.	0.8	6
12	A direct numerical simulation study of flow modulation and turbulent sedimentation in particle-laden downward channel flows. Physics of Fluids, 2021, 33, .	1.6	9
13	Fluid-wall interactions in pseudopotential lattice Boltzmann models. Physical Review E, 2021, 104, 035301.	0.8	3
14	Associations of polycyclic aromatic hydrocarbons exposure and its interaction with XRCC1 genetic polymorphism with lung cancer: A case-control study. Environmental Pollution, 2021, 290, 118077.	3.7	6
15	Flow modulation by a few fixed spherical particles in a turbulent channel flow. Journal of Fluid Mechanics, 2020, 884, .	1.4	12
16	Multifractal characterization of the Coniacianâ€"Santonian OAE3 in lacustrine and marine deposits based on spectral gamma ray logs. Scientific Reports, 2020, 10, 14363.	1.6	5
17	Cut-Edge Detection Method for Rice Harvesting Based on Machine Vision. Agronomy, 2020, 10, 590.	1.3	14
18	Force-amplified, single-sided diffused-interface immersed boundary kernel for correct local velocity gradient computation and accurate no-slip boundary enforcement. Physical Review E, 2020, 101, 053305.	0.8	11

#	ARTICLE	IF	CITATIONS
19	Attainment of rigorous thermodynamic consistency and surface tension in single-component pseudopotential lattice Boltzmann models via a customized equation of state. Physical Review E, 2020, 101, 063309.	0.8	7
20	RB-IGBT Based MMC Topologies with DC Fault Blocking Capability. , 2020, , .		0
21	A direct numerical investigation of two-way interactions in a particle-laden turbulent channelÂflow. Journal of Fluid Mechanics, 2019, 875, 1096-1144.	1.4	47
22	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
23	A comparative study of immersed boundary method and interpolated bounce-back scheme for no-slip boundary treatment in the lattice Boltzmann method: Part II, turbulent flows. Computers and Fluids, 2019, 192, 104251.	1.3	11
24	Isotropy and spurious currents in pseudo-potential multiphase lattice Boltzmann models. Computers and Fluids, 2019, 191, 104257.	1.3	10
25	LBM study of aggregation of monosized spherical particles in homogeneous isotropic turbulence. Chemical Engineering Science, 2019, 201, 201-211.	1.9	22
26	A Deep Learning Method for Change Detection in Synthetic Aperture Radar Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5751-5763.	2.7	126
27	Evaluation of gas hydrate saturation by effective medium theory in shaly sands: a case study from the Qilian Mountain permafrost, China. Journal of Geophysics and Engineering, 2019, 16, 215-228.	0.7	9
28	Assessment of numerical methods for fully resolved simulations of particle-laden turbulent flows. Computers and Fluids, 2019, 179, 1-14.	1.3	31
29	Direct numerical simulations of turbulent pipe flow laden with finite-size neutrally buoyant particles at low flow Reynolds number. Acta Mechanica, 2019, 230, 517-539.	1.1	19
30	A lattice-BGK model for the Navierâ€"Stokes equations based on a rectangular grid. Computers and Mathematics With Applications, 2019, 78, 1076-1094.	1.4	6
31	A lattice-Boltzmann scheme of the Navierâ€"Stokes equation on a three-dimensional cuboid lattice. Computers and Mathematics With Applications, 2019, 78, 1053-1075.	1.4	9
32	An inverse design analysis of mesoscopic implementation of non-uniform forcing in MRT lattice Boltzmann models. Computers and Mathematics With Applications, 2019, 78, 1095-1114.	1.4	4
33	Direct numerical simulation of turbulent pipe flow using the lattice Boltzmann method. Journal of Computational Physics, 2018, 357, 16-42.	1.9	40
34	Metal-free cycloisomerizations of <i>o</i>-alkynylbiaryls. Chemical Communications, 2018, 54, 12455-12458.	2.2	26
35	Spatial Fuzzy Clustering and Deep Auto-encoder for Unsupervised Change Detection in Synthetic Aperture Radar Images. , 2018, , .		1
36	Lewis Acids Catalyzed Annulations of Ynamides with Acyl Chlorides for Constructing 4-Amino-2-naphthol Derivatives and 3-Aminocyclobutenones. Journal of Organic Chemistry, 2018, 83, 9256-9266.	1.7	16

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37	Issues associated with Galilean invariance on a moving solid boundary in the lattice Boltzmann method. Physical Review E, 2017, 95, 013301.	0.8	9
38	A molecular collision operator of adjustable direction for the discrete velocity direction model. Physica A: Statistical Mechanics and Its Applications, 2017, 483, 25-35.	1.2	1
39	A scalable interface-resolved simulation of particle-laden flow using the lattice Boltzmann method. Parallel Computing, 2017, 67, 20-37.	1.3	20
40	Lattice Boltzmann model capable of mesoscopic vorticity computation. Physical Review E, 2017, 96, 053304.	0.8	8
41	A hydrodynamically-consistent MRT lattice Boltzmann model on a 2D rectangular grid. Journal of Computational Physics, 2016, 326, 893-912.	1.9	18
42	Improving lattice Boltzmann simulation of moving particles in a viscous flow using local grid refinement. Computers and Fluids, 2016, 136, 228-246.	1.3	6
43	Research and development of industrial real-time Ethernet performance testing system used for CNC system. International Journal of Advanced Manufacturing Technology, 2016, 83, 1199-1207.	1.5	3
44	Flow Modulation by Finite-Size Neutrally Buoyant Particles in a Turbulent Channel Flow. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	35
45	Study of Local Turbulence Profiles Relative to the Particle Surface in Particle-Laden Turbulent Flows. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	3
46	Implementation issues and benchmarking of lattice Boltzmann method for moving rigid particle simulations in a viscous flow. Computers and Mathematics With Applications, 2016, 72, 349-374.	1.4	70
47	Designing correct fluid hydrodynamics on a rectangular grid using MRT lattice Boltzmann approach. Computers and Mathematics With Applications, 2016, 72, 288-310.	1.4	15
48	Lattice Boltzmann simulation of particle-laden turbulent channel flow. Computers and Fluids, 2016, 124, 226-236.	1.3	65
49	Lyophilization as a novel approach for preparation of water resistant HA fiber membranes by crosslinked with EDC. Carbohydrate Polymers, 2014, 102, 8-11.	5.1	17
50	Gastrodin protects against MPP+-induced oxidative stress by up regulates heme oxygenase-1 expression through p38 MAPK/Nrf2 pathway in human dopaminergic cells. Neurochemistry International, 2014, 75, 79-88.	1.9	97
51	Nitrogen-doped Ge3Te2 materials with self-restricted active region for low power phase-change memory. Journal of Applied Physics, 2013, 113, 034310.	1.1	14
52	H THEOREM AND SUFFICIENT CONDITIONS FOR THE DISCRETE VELOCITY DIRECTION MODEL. Modern Physics Letters B, 2013, 27, 1350007.	1.0	4
53	W-Sb-Te phase-change material: A candidate for the trade-off between programming speed and data retention. Applied Physics Letters, 2012, 101, .	1.5	56
54	Fabrication of Superfine Leuciteâ€Reinforced Dental Material by Hydrothermal Precursor and Lowâ€Temperature Frit. Journal of the American Ceramic Society, 2011, 94, 3694-3697.	1.9	3

#	Article	IF	Citations
55	Fabrication of a Photocatalytic Ceramic by Doping Si–, P–, and Zr–Modified TiO$_2$ Nanopowders in Glaze. Journal of the American Ceramic Society, 2010, 93, 2948-2951.	1.9	7