

# Cheng Peng

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Modeling transmission of SARS-CoV-2 Omicron in China. <i>Nature Medicine</i> , 2022, 28, 1468-1475.	15.2	177
2	A Deep Learning Method for Change Detection in Synthetic Aperture Radar Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 5751-5763.	2.7	126
3	Gastrodin protects against MPP <sup>+</sup> -induced oxidative stress by up regulates heme oxygenase-1 expression through p38 MAPK/Nrf2 pathway in human dopaminergic cells. <i>Neurochemistry International</i> , 2014, 75, 79-88.	1.9	97
4	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
5	Estimation of the dissipation rate of turbulent kinetic energy: A review. <i>Chemical Engineering Science</i> , 2021, 229, 116133.	1.9	66
6	Lattice Boltzmann simulation of particle-laden turbulent channel flow. <i>Computers and Fluids</i> , 2016, 124, 226-236.	1.3	65
7	W-Sb-Te phase-change material: A candidate for the trade-off between programming speed and data retention. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	56
8	A direct numerical investigation of two-way interactions in a particle-laden turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2019, 875, 1096-1144.	1.4	47
9	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
10	Flow Modulation by Finite-Size Neutrally Buoyant Particles in a Turbulent Channel Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	0.8	35
11	Assessment of numerical methods for fully resolved simulations of particle-laden turbulent flows. <i>Computers and Fluids</i> , 2019, 179, 1-14.	1.3	31
12	Metal-free cycloisomerizations of <i>o</i> -alkynylbiaryls. <i>Chemical Communications</i> , 2018, 54, 12455-12458.	2.2	26
13	Global diversity of policy, coverage, and demand of COVID-19 vaccines: a descriptive study. <i>BMC Medicine</i> , 2022, 20, 130.	2.3	26
14	LBM study of aggregation of monosized spherical particles in homogeneous isotropic turbulence. <i>Chemical Engineering Science</i> , 2019, 201, 201-211.	1.9	22
15	A scalable interface-resolved simulation of particle-laden flow using the lattice Boltzmann method. <i>Parallel Computing</i> , 2017, 67, 20-37.	1.3	20
16	Biomass-assisted approach for large-scale construction of multi-functional isolated single-atom site catalysts. <i>Nano Research</i> , 2022, 15, 3980-3990.	5.8	20
17	Direct numerical simulations of turbulent pipe flow laden with finite-size neutrally buoyant particles at low flow Reynolds number. <i>Acta Mechanica</i> , 2019, 230, 517-539.	1.1	19
18	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

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19	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
20	Model-based evaluation of alternative reactive class closure strategies against COVID-19. Nature Communications, 2022, 13, 322.	5.8	17
21	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
22	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
23	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
24	Nitrogen-doped Ge <sub>3</sub> Te <sub>2</sub> materials with self-restricted active region for low power phase-change memory. Journal of Applied Physics, 2013, 113, 034310.	1.1	14
25	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
26	Cut-Edge Detection Method for Rice Harvesting Based on Machine Vision. Agronomy, 2020, 10, 590.	1.3	14
27	Flow modulation by a few fixed spherical particles in a turbulent channel flow. Journal of Fluid Mechanics, 2020, 884, .	1.4	12
28	Metal-free hydroalkoxylation of ynesulfonamides with esters. Organic and Biomolecular Chemistry, 2021, 19, 2182-2185.	1.5	12
29	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
30	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
31	Isotropy and spurious currents in pseudo-potential multiphase lattice Boltzmann models. Computers and Fluids, 2019, 191, 104257.	1.3	10
32	Investigating vaccine-induced immunity and its effect in mitigating SARS-CoV-2 epidemics in China. BMC Medicine, 2022, 20, 37.	2.3	10
33	Issues associated with Galilean invariance on a moving solid boundary in the lattice Boltzmann method. Physical Review E, 2017, 95, 013301.	0.8	9
34	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
35	A lattice-Boltzmann scheme of the Navier–Stokes equation on a three-dimensional cuboid lattice. Computers and Mathematics With Applications, 2019, 78, 1053-1075.	1.4	9
36	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

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37	Lattice Boltzmann model capable of mesoscopic vorticity computation. <i>Physical Review E</i> , 2017, 96, 053304.	0.8	8
38	Fabrication of a Photocatalytic Ceramic by Doping Si <sup>4+</sup> , P <sup>5+</sup> , and Zr <sup>4+</sup> Modified TiO <sub>2</sub> Nanopowders in Glaze. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2948-2951.	1.9	7
39	Attainment of rigorous thermodynamic consistency and surface tension in single-component pseudopotential lattice Boltzmann models via a customized equation of state. <i>Physical Review E</i> , 2020, 101, 063309.	0.8	7
40	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
41	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
42	Influence of particle-fluid density ratio on the dynamics of finite-size particles in homogeneous isotropic turbulent flows. <i>Physical Review E</i> , 2021, 104, 025109.	0.8	6
43	Associations of polycyclic aromatic hydrocarbons exposure and its interaction with XRCC1 genetic polymorphism with lung cancer: A case-control study. <i>Environmental Pollution</i> , 2021, 290, 118077.	3.7	6
44	Multifractal characterization of the Coniacian-Santonian OAE3 in lacustrine and marine deposits based on spectral gamma ray logs. <i>Scientific Reports</i> , 2020, 10, 14363.	1.6	5
45	H THEOREM AND SUFFICIENT CONDITIONS FOR THE DISCRETE VELOCITY DIRECTION MODEL. <i>Modern Physics Letters B</i> , 2013, 27, 1350007.	1.0	4
46	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
47	Direct Numerical Simulation of Sediment Transport in Turbulent Open Channel Flow Using the Lattice Boltzmann Method. <i>Fluids</i> , 2021, 6, 217.	0.8	4
48	Fabrication of Superfine Leucite Reinforced Dental Material by Hydrothermal Precursor and Low Temperature Frit. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3694-3697.	1.9	3
49	Research and development of industrial real-time Ethernet performance testing system used for CNC system. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 1199-1207.	1.5	3
50	Study of Local Turbulence Profiles Relative to the Particle Surface in Particle-Laden Turbulent Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	0.8	3
51	Fluid-wall interactions in pseudopotential lattice Boltzmann models. <i>Physical Review E</i> , 2021, 104, 035301.	0.8	3
52	A molecular collision operator of adjustable direction for the discrete velocity direction model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 483, 25-35.	1.2	1
53	Spatial Fuzzy Clustering and Deep Auto-encoder for Unsupervised Change Detection in Synthetic Aperture Radar Images. , 2018, , .		1
54	Effects of Benzene Ring and Polar Group on the Conductivity Characteristics of Polyethylene Matrix Composites. , 2021, , .		0

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55	RB-IGBT Based MMC Topologies with DC Fault Blocking Capability. , 2020, , .		0