

Qingdong Cai

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

531
citations

687363

13
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794594

19
g-index

21
all docs

21
docs citations

21
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Cluster formation in granular media due to the Coriolis effect. <i>Modern Physics Letters B</i> , 2022, 36, .	1.9	0
2	A velocity-space adaptive unified gas kinetic scheme for continuum and rarefied flows. <i>Journal of Computational Physics</i> , 2020, 415, 109535.	3.8	23
3	Neural network as a function approximator and its application in solving differential equations. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 237-248.	3.6	25
4	Dissipation function in turbulent plane Poiseuille and Couette flows subject to spanwise rotations. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 185-192.	3.6	3
5	A unified gas-kinetic scheme for multiscale and multicomponent flow transport. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 355-372.	3.6	7
6	Role of the large-scale structures in spanwise rotating plane Couette flow with multiple states. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	8
7	Multiple states in turbulent plane Couette flow with spanwise rotation. <i>Journal of Fluid Mechanics</i> , 2018, 837, 477-490.	3.4	28
8	An h-adaptive implicit immersed boundary-lattice Boltzmann flux solver based on JASMIN AMR package. <i>Computers and Fluids</i> , 2018, 161, 14-22.	2.5	1
9	An investigation of non-equilibrium heat transport in a gas system under external force field. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 362-379.	4.8	16
10	Numerical simulation of h-adaptive immersed boundary method for freely falling disks. <i>Modern Physics Letters B</i> , 2018, 32, 1840002.	1.9	0
11	A well-balanced unified gas-kinetic scheme for multiscale flow transport under gravitational field. <i>Journal of Computational Physics</i> , 2017, 332, 475-491.	3.8	21
12	Quad-Decomposition of Velocity Field in Spanwise-Rotating Turbulent Plane Couette Flows. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2016, 17, .	1.0	3
13	A unified gas-kinetic scheme for continuum and rarefied flows IV: Full Boltzmann and model equations. <i>Journal of Computational Physics</i> , 2016, 314, 305-340.	3.8	75
14	Turbulent statistics and flow structures in spanwise-rotating turbulent plane Couette flows. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	21
15	Lattice Boltzmann Simulation of Particle Motion in Binary Immiscible Fluids. <i>Communications in Computational Physics</i> , 2015, 18, 757-786.	1.7	20
16	A Comparison and Unification of Ellipsoidal Statistical and Shakhov BGK Models. <i>Advances in Applied Mathematics and Mechanics</i> , 2015, 7, 245-266.	1.2	31
17	Momentum-exchange method in lattice Boltzmann simulations of particle-fluid interactions. <i>Physical Review E</i> , 2013, 88, 013303.	2.1	82
18	Constrained large-eddy simulation and detached eddy simulation of flow past a commercial aircraft at 14 degrees angle of attack. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 270-276.	5.1	26

#	ARTICLE	IF	CITATIONS
19	A unified gas kinetic scheme with moving mesh and velocity space adaptation. Journal of Computational Physics, 2012, 231, 6643-6664.	3.8	116
20	Gas-kinetic scheme with discontinuous derivative for low speed flow computation. Journal of Computational Physics, 2011, 230, 2045-2059.	3.8	9
21	Lattice Boltzmann method on quadtree grids. Physical Review E, 2011, 83, 026707.	2.1	16