Qingdong Cai

List of Publications by Year
in descending order

21	531	687363	794594
papers	**citations**	**13**	**19**
		h-index	**g-index**

21	21	21	393
all docs	**docs citations**	**times ranked**	**citing authors**

#	ARTICLE	IF	CITATIONS
1	A unified gas kinetic scheme with moving mesh and velocity space adaptation. Journal of Computational Physics, 2012, 231, 6643-6664.	3.8	116
2	Momentum-exchange method in lattice Boltzmann simulations of particle-fluid interactions. Physical Review E, 2013, 88, 013303.	2.1	82
3	A unified gas-kinetic scheme for continuum and rarefied flows IV: Full Boltzmann and model equations. Journal of Computational Physics, 2016, 314, 305-340.	3.8	75
4	A Comparison and Unification of Ellipsoidal Statistical and Shakhov BGK Models. Advances in Applied Mathematics and Mechanics, 2015, 7, 245-266.	1.2	31
5	Multiple states in turbulent plane Couette flow with spanwise rotation. Journal of Fluid Mechanics, 2018, 837, 477-490.	3.4	28
6	Constrained large-eddy simulation and detached eddy simulation of flow past a commercial aircraft at 14 degrees angle of attack. Science China: Physics, Mechanics and Astronomy, 2013, 56, 270-276.	5.1	26
7	Neural network as a function approximator and its application in solving differential equations. Applied Mathematics and Mechanics (English Edition), 2019, 40, 237-248.	3.6	25
8	A velocity-space adaptive unified gas kinetic scheme for continuum and rarefied flows. Journal of Computational Physics, 2020, 415, 109535.	3.8	23
9	A well-balanced unified gas-kinetic scheme for multiscale flow transport under gravitational field. Journal of Computational Physics, 2017, 332, 475-491.	3.8	21
10	Turbulent statistics and flow structures in spanwise-rotating turbulent plane Couette flows. Physical Review Fluids, 2016, 1, .	2.5	21
11	Lattice Boltzmann Simulation of Particle Motion in Binary Immiscible Fluids. Communications in Computational Physics, 2015, 18, 757-786.	1.7	20
12	Lattice Boltzmann method on quadtree grids. Physical Review E, 2011, 83, 026707.	2.1	16
13	An investigation of non-equilibrium heat transport in a gas system under external force field. International Journal of Heat and Mass Transfer, 2018, 126, 362-379.	4.8	16
14	Gas-kinetic scheme with discontinuous derivative for low speed flow computation. Journal of Computational Physics, 2011, 230, 2045-2059.	3.8	9
15	Role of the large-scale structures in spanwise rotating plane Couette flow with multiple states. Physical Review Fluids, 2019, 4, .	2.5	8
16	A unified gas-kinetic scheme for multiscale and multicomponent flow transport. Applied Mathematics and Mechanics (English Edition), 2019, 40, 355-372.	3.6	7
17	Quad-Decomposition of Velocity Field in Spanwise-Rotating Turbulent Plane Couette Flows. International Journal of Nonlinear Sciences and Numerical Simulation, 2016, 17, .	1.0	3
18	Dissipation function in turbulent plane Poiseuille and Couette flows subject to spanwise rotations. Applied Mathematics and Mechanics (English Edition), 2019, 40, 185-192.	3.6	3

#	Article	IF	Citations
19	An h-adaptive implicit immersed boundary-lattice Boltzmann flux solver based on JASMIN AMR package. Computers and Fluids, 2018, 161, 14-22.	2.5	1
20	Numerical simulation of h-adaptive immersed boundary method for freely falling disks. Modern Physics Letters B, 2018, 32, 1840002.	1.9	0
21	Cluster formation in granular media due to the Coriolis effect. Modern Physics Letters B, 2022, 36, .	1.9	0