

Peng

List of Publications by Year in descending order

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29
papers

760
citations

516215

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h-index

500791

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29
all docs

29
docs citations

29
times ranked

358
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of three-dimensional natural convection in a cubical cavity at high Rayleigh numbers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 217-228.	2.5	78
2	A comparative study of discrete velocity methods for low-speed rarefied gas flows. <i>Computers and Fluids</i> , 2018, 161, 33-46.	1.3	70
3	A Comparative Study of LBE and DUGKS Methods for Nearly Incompressible Flows. <i>Communications in Computational Physics</i> , 2015, 17, 657-681.	0.7	67
4	DUGKS simulations of three-dimensional Taylor-Green vortex flow and turbulent channel flow. <i>Computers and Fluids</i> , 2017, 155, 9-21.	1.3	51
5	Can we find steady-state solutions to multiscale rarefied gas flows within dozens of iterations?. <i>Journal of Computational Physics</i> , 2020, 407, 109245.	1.9	50
6	Performance evaluation of the general characteristics based off-lattice Boltzmann scheme and DUGKS for low speed continuum flows. <i>Journal of Computational Physics</i> , 2017, 333, 227-246.	1.9	42
7	Comparison of the lattice Boltzmann equation and discrete unified gas-kinetic scheme methods for direct numerical simulation of decaying turbulent flows. <i>Physical Review E</i> , 2016, 94, 043304.	0.8	41
8	A multi-level parallel solver for rarefied gas flows in porous media. <i>Computer Physics Communications</i> , 2019, 234, 14-25.	3.0	37
9	A coupled discrete unified gas-kinetic scheme for Boussinesq flows. <i>Computers and Fluids</i> , 2015, 120, 70-81.	1.3	36
10	Discrete unified gas kinetic scheme with a force term for incompressible fluid flows. <i>Computers and Mathematics With Applications</i> , 2016, 71, 2608-2629.	1.4	36
11	Discrete unified gas kinetic scheme for flows of binary gas mixture based on the McCormack model. <i>Physics of Fluids</i> , 2019, 31, .	1.6	34
12	Accurate and efficient computation of the Boltzmann equation for Couette flow: Influence of intermolecular potentials on Knudsen layer function and viscous slip coefficient. <i>Journal of Computational Physics</i> , 2019, 378, 573-590.	1.9	27
13	Pore-scale simulations of rarefied gas flows in ultra-tight porous media. <i>Fuel</i> , 2019, 249, 341-351.	3.4	24
14	Thermal transpiration in molecular gas. <i>Physics of Fluids</i> , 2020, 32, .	1.6	20
15	Oscillatory rarefied gas flow inside a three dimensional rectangular cavity. <i>Physics of Fluids</i> , 2018, 30, .	1.6	18
16	Implicit Discontinuous Galerkin Method for the Boltzmann Equation. <i>Journal of Scientific Computing</i> , 2020, 82, 1.	1.1	17
17	Heat and mass transfer of oscillatory lid-driven cavity flow in the continuum, transition and free molecular flow regimes. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 291-300.	2.5	16
18	Nonlinear oscillatory rarefied gas flow inside a rectangular cavity. <i>Physical Review E</i> , 2018, 97, 043103.	0.8	15

#	ARTICLE	IF	CITATIONS
19	A high-order hybridizable discontinuous Galerkin method with fast convergence to steady-state solutions of the gas kinetic equation. <i>Journal of Computational Physics</i> , 2019, 376, 973-991.	1.9	13
20	Oscillatory Couette flow of rarefied binary gas mixtures. <i>Physics of Fluids</i> , 2021, 33, .	1.6	11
21	The kinetic Shakhovâ€™Enskog model for non-equilibrium flow of dense gases. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	1.4	10
22	Discrete unified gas kinetic scheme for all Knudsen number flows. IV. Strongly inhomogeneous fluids. <i>Physical Review E</i> , 2020, 101, 043303.	0.8	10
23	GPU acceleration of an iterative scheme for gas-kinetic model equations with memory reduction techniques. <i>Computer Physics Communications</i> , 2019, 245, 106861.	3.0	8
24	Pore-scale study of non-ideal gas dynamics under tight confinement considering rarefaction, denseness and molecular interactions. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 90, 103916.	2.1	8
25	Molecular kinetic modelling of nanoscale slip flow using a continuum approach. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	1.4	8
26	Oscillatory square cavity flows of binary gas mixtures. <i>Physics of Fluids</i> , 2021, 33, 067121.	1.6	6
27	A semi-implicit gas-kinetic scheme for smooth flows. <i>Computer Physics Communications</i> , 2016, 205, 22-31.	3.0	5
28	High-order hybridizable discontinuous Galerkin method for the gas kinetic equation. <i>International Journal of Computational Fluid Dynamics</i> , 2019, 33, 335-342.	0.5	2
29	A high order off-lattice kinetic method for high speed flows with a moderate Knudsen number. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0