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List of Publications by Year
in descending order

29 papers	760 citations	516215 16 h-index	500791 28 g-index
29 all docs	29 docs citations	29 times ranked	358 citing authors

#	Article	IF	Citations
1	Molecular kinetic modelling of nanoscale slip flow using a continuum approach. Journal of Fluid Mechanics, 2022, 939, .	1.4	8
2	Oscillatory Couette flow of rarefied binary gas mixtures. Physics of Fluids, 2021, 33, .	1.6	11
3	Pore-scale study of non-ideal gas dynamics under tight confinement considering rarefaction, denseness and molecular interactions. Journal of Natural Gas Science and Engineering, 2021, 90, 103916.	2.1	8
4	Oscillatory square cavity flows of binary gas mixtures. Physics of Fluids, 2021, 33, 067121.	1.6	6
5	Can we find steady-state solutions to multiscale rarefied gas flows within dozens of iterations?. Journal of Computational Physics, 2020, 407, 109245.	1.9	50
6	The kinetic Shakhovâ€“Enskog model for non-equilibrium flow of dense gases. Journal of Fluid Mechanics, 2020, 883, .	1.4	10
7	Thermal transpiration in molecular gas. Physics of Fluids, 2020, 32, .	1.6	20
8	Implicit Discontinuous Galerkin Method for the Boltzmann Equation. Journal of Scientific Computing, 2020, 82, 1.	1.1	17
9	Discrete unified gas kinetic scheme for all Knudsen number flows. IV. Strongly inhomogeneous fluids. Physical Review E, 2020, 101, 043303.	0.8	10
10	A high order off-lattice kinetic method for high speed flows with a moderate Knudsen number. AIP Conference Proceedings, 2019, , .	0.3	0
11	Heat and mass transfer of oscillatory lid-driven cavity flow in the continuum, transition and free molecular flow regimes. International Journal of Heat and Mass Transfer, 2019, 131, 291-300.	2.5	16
12	A high-order hybridizable discontinuous Galerkin method with fast convergence to steady-state solutions of the gas kinetic equation. Journal of Computational Physics, 2019, 376, 973-991.	1.9	13
13	Pore-scale simulations of rarefied gas flows in ultra-tight porous media. Fuel, 2019, 249, 341-351.	3.4	24
14	GPU acceleration of an iterative scheme for gas-kinetic model equations with memory reduction techniques. Computer Physics Communications, 2019, 245, 106861.	3.0	8
15	High-order hybridisable discontinuous Galerkin method for the gas kinetic equation. International Journal of Computational Fluid Dynamics, 2019, 33, 335-342.	0.5	2
16	A multi-level parallel solver for rarefied gas flows in porous media. Computer Physics Communications, 2019, 234, 14-25.	3.0	37
17	Accurate and efficient computation of the Boltzmann equation for Couette flow: Influence of intermolecular potentials on Knudsen layer function and viscous slip coefficient. Journal of Computational Physics, 2019, 378, 573-590.	1.9	27
18	Discrete unified gas kinetic scheme for flows of binary gas mixture based on the McCormack model. Physics of Fluids, 2019, 31, .	1.6	34

#	Article	IF	Citations
19	Nonlinear oscillatory rarefied gas flow inside a rectangular cavity. Physical Review E, 2018, 97, 043103.	0.8	15
20	A comparative study of discrete velocity methods for low-speed rarefied gas flows. Computers and Fluids, 2018, 161, 33-46.	1.3	70
21	Oscillatory rarefied gas flow inside a three dimensional rectangular cavity. Physics of Fluids, 2018, 30, .	1.6	18
22	DUGKS simulations of three-dimensional Taylorâ€“Green vortex flow and turbulent channel flow. Computers and Fluids, 2017, 155, 9-21.	1.3	51
23	Numerical study of three-dimensional natural convection in a cubical cavity at high Rayleigh numbers. International Journal of Heat and Mass Transfer, 2017, 113, 217-228.	2.5	78
24	Performance evaluation of the general characteristics based off-lattice Boltzmann scheme and DUGKS for low speed continuum flows. Journal of Computational Physics, 2017, 333, 227-246.	1.9	42
25	A semi-implicit gas-kinetic scheme for smooth flows. Computer Physics Communications, 2016, 205, 22-31.	3.0	5
26	Comparison of the lattice Boltzmann equation and discrete unified gas-kinetic scheme methods for direct numerical simulation of decaying turbulent flows. Physical Review E, 2016, 94, 043304.	0.8	41
27	Discrete unified gas kinetic scheme with a force term for incompressible fluid flows. Computers and Mathematics With Applications, 2016, 71, 2608-2629.	1.4	36
28	A coupled discrete unified gas-kinetic scheme for Boussinesq flows. Computers and Fluids, 2015, 120, 70-81.	1.3	36
29	A Comparative Study of LBE and DUGKS Methods for Nearly Incompressible Flows. Communications in Computational Physics, 2015, 17, 657-681.	0.7	67