Yan Wang

List of Publications by Year in descending order

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55 papers	1,819 citations	257450 24 h-index	265206 42 g-index
56 all docs	56 docs citations	56 times ranked	903 citing authors

#	Article	IF	Citations
1	Hydrodynamic performance of an unconstrained flapping swimmer with flexible fin: A numerical study. Physics of Fluids, 2022, 34, .	4.0	17
2	10.1063/5.0077312.1. , 2022, , .		0
3	Recent advances in theory, simulations, and experiments on multiphase flows. Physics of Fluids, 2022, 34, .	4.0	5
4	High-order gas kinetic flux solver for simulation of two dimensional incompressible flows. Physics of Fluids, 2021, 33, 017107.	4.0	8
5	A simplified lattice Boltzmann flux solver for multiphase flows with large density ratio. International Journal for Numerical Methods in Fluids, 2021, 93, 1895-1912.	1.6	8
6	An improved multiphase lattice Boltzmann flux solver for the simulation of incompressible flow with large density ratio and complex interface. Physics of Fluids, 2021, 33, 033306.	4.0	26
7	Development of an immersed boundary-multiphase lattice Boltzmann flux solver with high density ratio for contact line dynamics. Physics of Fluids, 2021, 33, 057101.	4.0	10
8	A mass-conserved fractional step axisymmetric lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. Physics of Fluids, 2020, 32, .	4.0	20
9	Robust active flow control over a range of Reynolds numbers using an artificial neural network trained through deep reinforcement learning. Physics of Fluids, 2020, 32, .	4.0	114
10	A diffuse interface IBM for compressible flows with Neumann boundary condition. International Journal of Modern Physics B, 2020, 34, 2040070.	2.0	0
11	Oblique drop impact on thin film: Splashing dynamics at moderate impingement angles. Physics of Fluids, 2020, 32, .	4.0	21
12	A generalized minimal residual method-based immersed boundary-lattice Boltzmann flux solver coupled with finite element method for non-linear fluid-structure interaction problems. Physics of Fluids, 2019, 31, .	4.0	13
13	An interfacial lattice Boltzmann flux solver for simulation of multiphase flows at large density ratio. International Journal of Multiphase Flow, 2019, 116, 100-112.	3.4	18
14	Implicit heat flux correction-based immersed boundary-finite volume method for thermal flows with Neumann boundary conditions. Journal of Computational Physics, 2019, 386, 64-83.	3.8	12
15	On the re-initialization of fluid interfaces in diffuse interface method. Computers and Fluids, 2018, 166, 209-217.	2.5	11
16	Development of axisymmetric lattice Boltzmann flux solver for complex multiphase flows. Modern Physics Letters B, 2018, 32, 1840005.	1.9	3
17	A simple mass-conserved level set method for simulation of multiphase flows. Physics of Fluids, 2018, 30, .	4.0	24
18	An implicit simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible isothermal flows. Computers and Fluids, 2018, 160, 204-218.	2.5	7

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19	An effective lattice Boltzmann flux solver on arbitrarily unstructured meshes. Modern Physics Letters B, 2018, 32, 1840012.	1.9	3
20	Extension of lattice Boltzmann flux solver for simulation of compressible multi-component flows. Modern Physics Letters B, 2018, 32, 1840001.	1.9	2
21	Nonlinear flutter analysis of composite panels. Modern Physics Letters B, 2018, 32, 1840043.	1.9	0
22	An immersed boundary-gas kinetic flux solver for simulation of incompressible flows. Computers and Fluids, 2017, 142, 45-56.	2.5	12
23	On the immersed boundaryâ€lattice Boltzmann simulations of incompressible flows with freely moving objects. International Journal for Numerical Methods in Fluids, 2017, 83, 331-350.	1.6	10
24	Comparative study of discrete velocity method and high-order lattice Boltzmann method for simulation of rarefied flows. Computers and Fluids, 2017, 146, 125-142.	2.5	26
25	A free energy-based surface tension force model for simulation of multiphase flows by level-set method. Journal of Computational Physics, 2017, 345, 404-426.	3.8	30
26	A simplified circular functionâ€“based gas kinetic scheme for simulation of incompressible flows. International Journal for Numerical Methods in Fluids, 2017, 85, 583-598.	1.6	18
27	An immersed boundary-lattice boltzmann flux solver in a moving frame to study three-dimensional freely falling rigid bodies. Journal of Fluids and Structures, 2017, 68, 444-465.	3.4	14
28	A Simplified Lattice Boltzmann Method without Evolution of Distribution Function. Advances in Applied Mathematics and Mechanics, 2017, 9, 1-22.	1.2	68
29	An immersed boundary-simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible flows. Physics of Fluids, 2017, 29, .	4.0	39
30	Comparative study of 1D, 2D and 3D simplified gas kinetic schemes for simulation of inviscid compressible flows. Applied Mathematical Modelling, 2017, 43, 85-109.	4.2	8
31	An adaptive mesh refinement-multiphase lattice Boltzmann flux solver for simulation of complex binary fluid flows. Physics of Fluids, 2017, 29, .	4.0	28
32	Numerical Investigation on Head-On Collisions of Binary Micro-Droplets by an Improved Multiphase Lattice Boltzmann Flux Solver. , 2016, , .		0
33	Numerical study on the freely falling plate: Effects of density ratio and thickness-to-length ratio. Physics of Fluids, 2016, 28, .	4.0	15
34	Development of discrete gas kinetic scheme for simulation of 3D viscous incompressible and compressible flows. Journal of Computational Physics, 2016, 319, 129-144.	3.8	24
35	A decoupling multiple-relaxation-time lattice Boltzmann flux solver for non-Newtonian power-law fluid flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 235, 20-28.	2.4	24
36	Development of a discrete gas-kinetic scheme for simulation of two-dimensional viscous incompressible and compressible flows. Physical Review E, 2016, 93, 033311.	2.1	27

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37	Numerical simulation of flows from free molecular regime to continuum regime by a DVM with streaming and collision processes. Journal of Computational Physics, 2016, 306, 291-310.	3.8	42
38	A fractional-step lattice Boltzmann flux solver for axisymmetric thermal flows. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 111-129.	0.9	13
39	Boundary condition-enforced immersed boundary-lattice Boltzmann flux solver for thermal flows with Neumann boundary conditions. Journal of Computational Physics, 2016, 306, 237-252.	3.8	38
40	Simulation of three-component fluid flows using the multiphase lattice Boltzmann flux solver. Journal of Computational Physics, 2016, 314, 228-243.	3.8	43
41	An efficient immersed boundary-lattice Boltzmann flux solver for simulation of 3D incompressible flows with complex geometry. Computers and Fluids, 2016, 124, 54-66.	2.5	29
42	Three-Dimensional Lattice Boltzmann Flux Solver and Its Applications to Incompressible Isothermal and Thermal Flows. Communications in Computational Physics, 2015, 18, 593-620.	1.7	33
43	From Lattice Boltzmann Method to Lattice Boltzmann Flux Solver. Entropy, 2015, 17, 7713-7735.	2.2	41
44	A mass-conserved diffuse interface method and its application for incompressible multiphase flows with large density ratio. Journal of Computational Physics, 2015, 290, 336-351.	3.8	77
45	An immersed boundary-lattice Boltzmann flux solver and its applications to fluidâ€“structure interaction problems. Journal of Fluids and Structures, 2015, 54, 440-465.	3.4	108
46	Explicit formulations of gas-kinetic flux solver for simulation of incompressible and compressible viscous flows. Journal of Computational Physics, 2015, 300, 492-519.	3.8	31
47	An improved multiphase lattice Boltzmann flux solver for three-dimensional flows with large density ratio and high Reynolds number. Journal of Computational Physics, 2015, 302, 41-58.	3.8	82
48	Multiphase lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. Journal of Computational Physics, 2015, 280, 404-423.	3.8	174
49	Thermal lattice Boltzmann flux solver and its application for simulation of incompressible thermal flows. Computers and Fluids, 2014, 94, 98-111.	2.5	77
50	A fractional step axisymmetric lattice Boltzmann flux solver for incompressible swirling and rotating flows. Computers and Fluids, 2014, 96, 204-214.	2.5	29
51	Development of LBGK and incompressible LBGKâ€based lattice Boltzmann flux solvers for simulation of incompressible flows. International Journal for Numerical Methods in Fluids, 2014, 75, 344-364.	1.6	39
52	Development of Lattice Boltzmann Flux Solver for Simulation of Incompressible Flows. Advances in Applied Mathematics and Mechanics, 2014, 6, 436-460.	1.2	120
53	Numerical simulations of gas resonant oscillations in a closed tube using lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2008, 51, 3082-3090.	4.8	22
54	AN IMPROVED THERMAL LATTICE BOLTZMANN MODEL FOR FLOWS WITHOUT VISCOUS HEAT DISSIPATION AND COMPRESSION WORK. International Journal of Modern Physics C, 2008, 19, 125-150.	1.7	44

#	Article	IF	Citations
55	Coupled double-distribution-function lattice Boltzmann method for the compressible Navier-Stokes equations. Physical Review E, 2007, 76, 056705.	2.1	103