

Liming Yang

List of Publications by Year in descending order

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90
papers

1,634
citations

257450

24
h-index

361022

35
g-index

91
all docs

91
docs citations

91
times ranked

735
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved multiphase lattice Boltzmann flux solver for three-dimensional flows with large density ratio and high Reynolds number. <i>Journal of Computational Physics</i> , 2015, 302, 41-58.	3.8	82
2	A visco-hyperelastic constitutive model to characterize both tensile and compressive behavior of rubber. <i>Journal of Applied Polymer Science</i> , 2004, 92, 523-531.	2.6	79
3	A Simplified Lattice Boltzmann Method without Evolution of Distribution Function. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 1-22.	1.2	68
4	A simple distribution function-based gas-kinetic scheme for simulation of viscous incompressible and compressible flows. <i>Journal of Computational Physics</i> , 2014, 274, 611-632.	3.8	47
5	Circular function-based gas-kinetic scheme for simulation of inviscid compressible flows. <i>Journal of Computational Physics</i> , 2013, 255, 540-557.	3.8	45
6	Immersed boundary-simplified thermal lattice Boltzmann method for incompressible thermal flows. <i>Physics of Fluids</i> , 2020, 32, .	4.0	45
7	Numerical simulation of flows from free molecular regime to continuum regime by a DVM with streaming and collision processes. <i>Journal of Computational Physics</i> , 2016, 306, 291-310.	3.8	42
8	From Lattice Boltzmann Method to Lattice Boltzmann Flux Solver. <i>Entropy</i> , 2015, 17, 7713-7735.	2.2	41
9	A moment conservation-based non-free parameter compressible lattice Boltzmann model and its application for flux evaluation at cell interface. <i>Computers and Fluids</i> , 2013, 79, 190-199.	2.5	40
10	An immersed boundary-simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible flows. <i>Physics of Fluids</i> , 2017, 29, .	4.0	39
11	Boundary condition-enforced immersed boundary-lattice Boltzmann flux solver for thermal flows with Neumann boundary conditions. <i>Journal of Computational Physics</i> , 2016, 306, 237-252.	3.8	38
12	An improved discrete velocity method (DVM) for efficient simulation of flows in all flow regimes. <i>Physics of Fluids</i> , 2018, 30, .	4.0	38
13	A three-dimensional explicit sphere function-based gas-kinetic flux solver for simulation of inviscid compressible flows. <i>Journal of Computational Physics</i> , 2015, 295, 322-339.	3.8	34
14	A Hybrid Lattice Boltzmann Flux Solver for Simulation of Viscous Compressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2016, 8, 887-910.	1.2	34
15	Three-Dimensional Lattice Boltzmann Flux Solver and Its Applications to Incompressible Isothermal and Thermal Flows. <i>Communications in Computational Physics</i> , 2015, 18, 593-620.	1.7	33
16	Phase difference effect on collective locomotion of two tandem autopropelled flapping foils. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	33
17	An improved three-dimensional implicit discrete velocity method on unstructured meshes for all Knudsen number flows. <i>Journal of Computational Physics</i> , 2019, 396, 738-760.	3.8	32
18	Explicit formulations of gas-kinetic flux solver for simulation of incompressible and compressible viscous flows. <i>Journal of Computational Physics</i> , 2015, 300, 492-519.	3.8	31

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19	A boundary condition-enforced immersed boundary method for compressible viscous flows. <i>Computers and Fluids</i> , 2016, 136, 104-113.	2.5	29
20	An efficient immersed boundary-lattice Boltzmann flux solver for simulation of 3D incompressible flows with complex geometry. <i>Computers and Fluids</i> , 2016, 124, 54-66.	2.5	29
21	Development of a discrete gas-kinetic scheme for simulation of two-dimensional viscous incompressible and compressible flows. <i>Physical Review E</i> , 2016, 93, 033311.	2.1	27
22	Comparative study of discrete velocity method and high-order lattice Boltzmann method for simulation of rarefied flows. <i>Computers and Fluids</i> , 2017, 146, 125-142.	2.5	26
23	Development of discrete gas kinetic scheme for simulation of 3D viscous incompressible and compressible flows. <i>Journal of Computational Physics</i> , 2016, 319, 129-144.	3.8	24
24	A decoupling multiple-relaxation-time lattice Boltzmann flux solver for non-Newtonian power-law fluid flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 235, 20-28.	2.4	24
25	Improved fully implicit discrete-velocity method for efficient simulation of flows in all flow regimes. <i>Physical Review E</i> , 2018, 98, .	2.1	24
26	A high order least square-based finite difference-finite volume method with lattice Boltzmann flux solver for simulation of incompressible flows on unstructured grids. <i>Journal of Computational Physics</i> , 2020, 401, 109019.	3.8	24
27	Efficient boundary condition-enforced immersed boundary method for incompressible flows with moving boundaries. <i>Journal of Computational Physics</i> , 2021, 441, 110425.	3.8	24
28	Development and Comparative Studies of Three Non-free Parameter Lattice Boltzmann Models for Simulation of Compressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2012, 4, 454-472.	1.2	24
29	Extension of lattice Boltzmann flux solver for simulation of 3D viscous compressible flows. <i>Computers and Mathematics With Applications</i> , 2016, 71, 2069-2081.	2.7	23
30	Three-dimensional high-order least square-based finite difference-finite volume method on unstructured grids. <i>Physics of Fluids</i> , 2020, 32, .	4.0	22
31	Self-organization of multiple self-propelling flapping foils: energy saving and increased speed. <i>Journal of Fluid Mechanics</i> , 2020, 884, .	3.4	21
32	Oblique drop impact on thin film: Splashing dynamics at moderate impingement angles. <i>Physics of Fluids</i> , 2020, 32, .	4.0	21
33	Simulation of conjugate heat transfer problems by lattice Boltzmann flux solver. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 895-907.	4.8	20
34	Reduced order modeling-based discrete unified gas kinetic scheme for rarefied gas flows. <i>Physics of Fluids</i> , 2020, 32, 067108.	4.0	19
35	Analyses and reconstruction of the lattice Boltzmann flux solver. <i>Journal of Computational Physics</i> , 2022, 453, 110923.	3.8	19
36	A simplified circular function-based gas kinetic scheme for simulation of incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 85, 583-598.	1.6	18

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37	An implicit scheme with memory reduction technique for steady state solutions of DVBE in all flow regimes. <i>Physics of Fluids</i> , 2018, 30, .	4.0	18
38	Numerical study on the freely falling plate: Effects of density ratio and thickness-to-length ratio. <i>Physics of Fluids</i> , 2016, 28, .	4.0	15
39	Development of an efficient gas kinetic scheme for simulation of two-dimensional incompressible thermal flows. <i>Physical Review E</i> , 2018, 97, 013305.	2.1	15
40	Analysis and assessment of the no-slip and slip boundary conditions for the discrete unified gas kinetic scheme. <i>Physical Review E</i> , 2020, 101, 023312.	2.1	15
41	An immersed boundary-lattice boltzmann flux solver in a moving frame to study three-dimensional freely falling rigid bodies. <i>Journal of Fluids and Structures</i> , 2017, 68, 444-465.	3.4	14
42	A novel solver for simulation of flows from continuum regime to rarefied regime at moderate Knudsen number. <i>Journal of Computational Physics</i> , 2020, 415, 109548.	3.8	14
43	A fractional-step lattice Boltzmann flux solver for axisymmetric thermal flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2016, 69, 111-129.	0.9	13
44	Flow-mediated organization of two freely flapping swimmers. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	3.4	12
45	A novel gas kinetic flux solver for simulation of continuum and slip flows. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 2863-2888.	1.6	12
46	On the re-initialization of fluid interfaces in diffuse interface method. <i>Computers and Fluids</i> , 2018, 166, 209-217.	2.5	11
47	High-order least-square-based finite-differenceâ€“finite-volume method for simulation of incompressible thermal flows on arbitrary grids. <i>Physical Review E</i> , 2019, 100, 063308.	2.1	11
48	An efficient boundary condition-implemented immersed boundary-lattice Boltzmann method for simulation of 3D incompressible viscous flows. <i>Computers and Fluids</i> , 2014, 100, 165-175.	2.5	10
49	On the immersed boundaryâ€“lattice Boltzmann simulations of incompressible flows with freely moving objects. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 83, 331-350.	1.6	10
50	An improved discrete gas-kinetic scheme for two-dimensional viscous incompressible and compressible flows. <i>Physics of Fluids</i> , 2019, 31, .	4.0	10
51	Explicit formulations of G13-based gas kinetic flux solver (G13-GKFS) for simulation of continuum and rarefied flows. <i>Physics of Fluids</i> , 2021, 33, .	4.0	10
52	Mixed convection between rotating sphere and concentric cubical enclosure. <i>Physics of Fluids</i> , 2021, 33, .	4.0	10
53	An efficient discrete velocity method with inner iteration for steady flows in all flow regimes. <i>Physics of Fluids</i> , 2022, 34, .	4.0	10
54	A simple gas kinetic scheme for simulation of 3D incompressible thermal flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 72, 450-468.	0.9	9

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55	Optical Fiber Displacement Sensor Based on Microwave Photonics Interferometry. <i>Sensors</i> , 2018, 18, 3702.	3.8	9
56	Coupling improved discrete velocity method and G13-based gas kinetic flux solver: A hybrid method and its application for non-equilibrium flows. <i>Physics of Fluids</i> , 2021, 33, .	4.0	9
57	Comparative study of 1D, 2D and 3D simplified gas kinetic schemes for simulation of inviscid compressible flows. <i>Applied Mathematical Modelling</i> , 2017, 43, 85-109.	4.2	8
58	Numerical and experimental investigation into hypersonic boundary layer transition induced by roughness elements. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 559-567.	5.3	8
59	High-order gas kinetic flux solver for simulation of two dimensional incompressible flows. <i>Physics of Fluids</i> , 2021, 33, 017107.	4.0	8
60	Investigation on flow structure and aerodynamic characteristics over an airfoil at low Reynolds numberâ€”A review. <i>AIP Advances</i> , 2021, 11, .	1.3	8
61	Efficient high-order radial basis-function-based differential quadratureâ€”finite volume method for incompressible flows on unstructured grids. <i>Physical Review E</i> , 2021, 104, 045312.	2.1	8
62	An implicit high-order radial basis function-based differential quadrature-finite volume method on unstructured grids to simulate incompressible flows with heat transfer. <i>Journal of Computational Physics</i> , 2022, 467, 111461.	3.8	8
63	A Switch Function-Based Gas-Kinetic Scheme for Simulation of Inviscid and Viscous Compressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2016, 8, 703-721.	1.2	7
64	An implicit simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible isothermal flows. <i>Computers and Fluids</i> , 2018, 160, 204-218.	2.5	7
65	Development of multicomponent lattice Boltzmann flux solver for simulation of compressible viscous reacting flows. <i>Physical Review E</i> , 2019, 100, 033315.	2.1	7
66	Phase-field-simplified lattice Boltzmann method for modeling solid-liquid phase change. <i>Physical Review E</i> , 2021, 103, 023308.	2.1	7
67	Numerical investigation on performance of three solution reconstructions at cell interface in DVM simulation of flows in all Knudsen number regimes. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 90, 545-563.	1.6	6
68	Three-dimensional lattice Boltzmann flux solver for simulation of fluid-solid conjugate heat transfer problems with curved boundary. <i>Physical Review E</i> , 2020, 101, 053309.	2.1	6
69	A hybrid lattice Boltzmann flux solver for integrated hypersonic fluid-thermal-structural analysis. <i>Chinese Journal of Aeronautics</i> , 2020, 33, 2295-2312.	5.3	6
70	A high-order implicit least square-based finite difference-finite volume method for incompressible flows on unstructured grids. <i>Physics of Fluids</i> , 2021, 33, .	4.0	6
71	Gas kinetic flux solver based high-order finite-volume method for simulation of two-dimensional compressible flows. <i>Physical Review E</i> , 2021, 104, 015305.	2.1	6
72	A Boundary Condition-Implemented Immersed Boundary-Lattice Boltzmann Method and Its Application for Simulation of Flows Around a Circular Cylinder. <i>Advances in Applied Mathematics and Mechanics</i> , 2014, 6, 811-829.	1.2	6

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73	Variant of gas kinetic flux solver for flows beyond Navier-Stokes level. <i>Physical Review E</i> , 2021, 104, 055305.	2.1	6
74	An implicit lattice Boltzmann flux solver for simulation of compressible flows. <i>Computers and Mathematics With Applications</i> , 2022, 107, 82-94.	2.7	6
75	Development of multi-component generalized sphere function based gas-kinetic flux solver for simulation of compressible viscous reacting flows. <i>Computers and Fluids</i> , 2020, 197, 104382.	2.5	5
76	Double distribution function-based discrete gas kinetic scheme for viscous incompressible and compressible flows. <i>Journal of Computational Physics</i> , 2020, 412, 109428.	3.8	5
77	An efficient high-order least square-based finite difference-finite volume method for solution of compressible Navier-Stokes equations on unstructured grids. <i>Computers and Fluids</i> , 2021, 222, 104926.	2.5	5
78	Development of explicit formulations of G45-based gas kinetic scheme for simulation of continuum and rarefied flows. <i>Physical Review E</i> , 2022, 105, 045302.	2.1	5
79	Two-dimensional hydrodynamic schooling of two flapping swimmers initially in tandem formation. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	3.4	5
80	Development of circular function-based gas-kinetic scheme (CGKS) on moving grids for unsteady flows through oscillating cascades. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 84, 715-736.	1.6	4
81	A diffuse-interface immersed boundary method for simulation of compressible viscous flows with stationary and moving boundaries. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 149-168.	1.6	4
82	Parametric reduced order modeling-based discrete velocity method for simulation of steady rarefied flows. <i>Journal of Computational Physics</i> , 2021, 430, 110037.	3.8	4
83	A coupled high-order implicit-explicit flux reconstruction lattice Boltzmann method for nearly incompressible thermal flows. <i>International Journal of Heat and Mass Transfer</i> , 2022, 187, 122575.	4.8	4
84	An improved axisymmetric lattice Boltzmann flux solver for axisymmetric isothermal/thermal flows. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 90, 632-650.	1.6	2
85	Numerical Simulation of Microflows by a DOM With Streaming and Collision Processes. , 2016, , .		1
86	A three-dimensional gas-kinetic flux solver for simulation of viscous flows with explicit formulations of conservative variables and numerical flux. <i>Advances in Aerodynamics</i> , 2020, 2, .	2.5	1
87	Development of lattice Boltzmann flux solver for simulation of hypersonic flow past flight vehicles. <i>Journal of Physics: Conference Series</i> , 2018, 1053, 012073.	0.4	0
88	Circular Function-Based Gas-Kinetic Scheme for Simulation of Viscous Compressible Flows. <i>Lecture Notes in Computer Science</i> , 2018, , 37-47.	1.3	0
89	Modelling internal combustion engines with dynamic staggered mesh refinement. <i>Combustion Theory and Modelling</i> , 2020, 24, 142-175.	1.9	0
90	Wall Model-Based Diffuse-Interface Immersed Boundary Method for Simulation of Incompressible Turbulent Flows. <i>International Journal for Numerical Methods in Fluids</i> , 0, , .	1.6	0