# Liming Yang

List of Publications by Year
in descending order

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|---|---|---|---|
| 90<br>papers | 1,634<br>citations | 257450<br>24<br>h-index | 361022<br>35<br>g-index |
| 91<br>all docs | 91<br>docs citations | 91<br>times ranked | 735<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An implicit lattice Boltzmann flux solver for simulation of compressible flows. Computers and Mathematics With Applications, 2022, 107, 82-94. | 2.7 | 6 |
| 2 | Analyses and reconstruction of the lattice Boltzmann flux solver. Journal of Computational Physics, 2022, 453, 110923. | 3.8 | 19 |
| 3 | A coupled high-order implicit-explicit flux reconstruction lattice Boltzmann method for nearly incompressible thermal flows. International Journal of Heat and Mass Transfer, 2022, 187, 122575. | 4.8 | 4 |
| 4 | An efficient discrete velocity method with inner iteration for steady flows in all flow regimes. Physics of Fluids, 2022, 34, . | 4.0 | 10 |
| 5 | Development of explicit formulations of G45-based gas kinetic scheme for simulation of continuum and rarefied flows. Physical Review E, 2022, 105, 045302. | 2.1 | 5 |
| 6 | Two-dimensional hydrodynamic schooling of two flapping swimmers initially in tandem formation. Journal of Fluid Mechanics, 2022, 941, . | 3.4 | 5 |
| 7 | An implicit high-order radial basis function-based differential quadrature-finite volume method on unstructured grids to simulate incompressible flows with heat transfer. Journal of Computational Physics, 2022, 467, 111461. | 3.8 | 8 |
| 8 | Parametric reduced order modeling-based discrete velocity method for simulation of steady rarefied flows. Journal of Computational Physics, 2021, 430, 110037. | 3.8 | 4 |
| 9 | High-order gas kinetic flux solver for simulation of two dimensional incompressible flows. Physics of Fluids, 2021, 33, 017107. | 4.0 | 8 |
| 10 | Flow-mediated organization of two freely flapping swimmers. Journal of Fluid Mechanics, 2021, 912, . | 3.4 | 12 |
| 11 | Phase-field-simplified lattice Boltzmann method for modeling solid-liquid phase change. Physical Review E, 2021, 103, 023308. | 2.1 | 7 |
| 12 | Explicit formulations of G13-based gas kinetic flux solver (G13-GKFS) for simulation of continuum and rarefied flows. Physics of Fluids, 2021, 33, . | 4.0 | 10 |
| 13 | Investigation on flow structure and aerodynamic characteristics over an airfoil at low Reynolds numberâ€”A review. AIP Advances, 2021, 11, . | 1.3 | 8 |
| 14 | A high-order implicit least square-based finite difference-finite volume method for incompressible flows on unstructured grids. Physics of Fluids, 2021, 33, . | 4.0 | 6 |
| 15 | An efficient high-order least square-based finite difference-finite volume method for solution of compressible Navier-Stokes equations on unstructured grids. Computers and Fluids, 2021, 222, 104926. | 2.5 | 5 |
| 16 | A novel gas kinetic flux solver for simulation of continuum and slip flows. International Journal for Numerical Methods in Fluids, 2021, 93, 2863-2888. | 1.6 | 12 |
| 17 | Gas kinetic flux solver based high-order finite-volume method for simulation of two-dimensional compressible flows. Physical Review E, 2021, 104, 015305. | 2.1 | 6 |
| 18 | Coupling improved discrete velocity method and G13-based gas kinetic flux solver: A hybrid method and its application for non-equilibrium flows. Physics of Fluids, 2021, 33, . | 4.0 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Efficient boundary condition-enforced immersed boundary method for incompressible flows with moving boundaries. Journal of Computational Physics, 2021, 441, 110425. | 3.8 | 24 |
| 20 | Mixed convection between rotating sphere and concentric cubical enclosure. Physics of Fluids, 2021, 33, . | 4.0 | 10 |
| 21 | Efficient high-order radial basis-function-based differential quadratureâ€“finite volume method for incompressible flows on unstructured grids. Physical Review E, 2021, 104, 045312. | 2.1 | 8 |
| 22 | Variant of gas kinetic flux solver for flows beyond Navier-Stokes level. Physical Review E, 2021, 104, 055305. | 2.1 | 6 |
| 23 | Modelling internal combustion engines with dynamic staggered mesh refinement. Combustion Theory and Modelling, 2020, 24, 142-175. | 1.9 | 0 |
| 24 | A diffuseâ€interface immersed boundary method for simulation of compressible viscous flows with stationary and moving boundaries. International Journal for Numerical Methods in Fluids, 2020, 92, 149-168. | 1.6 | 4 |
| 25 | A high order least square-based finite difference-finite volume method with lattice Boltzmann flux solver for simulation of incompressible flows on unstructured grids. Journal of Computational Physics, 2020, 401, 109019. | 3.8 | 24 |
| 26 | Self-organization of multiple self-propelling flapping foils: energy saving and increased speed. Journal of Fluid Mechanics, 2020, 884, . | 3.4 | 21 |
| 27 | Development of multi-component generalized sphere function based gas-kinetic flux solver for simulation of compressible viscous reacting flows. Computers and Fluids, 2020, 197, 104382. | 2.5 | 5 |
| 28 | Three-dimensional high-order least square-based finite difference-finite volume method on unstructured grids. Physics of Fluids, 2020, 32, . | 4.0 | 22 |
| 29 | Three-dimensional lattice Boltzmann flux solver for simulation of fluid-solid conjugate heat transfer problems with curved boundary. Physical Review E, 2020, 101, 053309. | 2.1 | 6 |
| 30 | Reduced order modeling-based discrete unified gas kinetic scheme for rarefied gas flows. Physics of Fluids, 2020, 32, 067108. | 4.0 | 19 |
| 31 | A hybrid lattice Boltzmann flux solver for integrated hypersonic fluid-thermal-structural analysis. Chinese Journal of Aeronautics, 2020, 33, 2295-2312. | 5.3 | 6 |
| 32 | Analysis and assessment of the no-slip and slip boundary conditions for the discrete unified gas kinetic scheme. Physical Review E, 2020, 101, 023312. | 2.1 | 15 |
| 33 | Immersed boundaryâ€“simplified thermal lattice Boltzmann method for incompressible thermal flows. Physics of Fluids, 2020, 32, . | 4.0 | 45 |
| 34 | Double distribution function-based discrete gas kinetic scheme for viscous incompressible and compressible flows. Journal of Computational Physics, 2020, 412, 109428. | 3.8 | 5 |
| 35 | Oblique drop impact on thin film: Splashing dynamics at moderate impingement angles. Physics of Fluids, 2020, 32, . | 4.0 | 21 |
| 36 | A novel solver for simulation of flows from continuum regime to rarefied regime at moderate Knudsen number. Journal of Computational Physics, 2020, 415, 109548. | 3.8 | 14 |

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| 37 | A three-dimensional gas-kinetic flux solver for simulation of viscous flows with explicit formulations of conservative variables and numerical flux. Advances in Aerodynamics, 2020, 2, . | 2.5 | 1 |
| 38 | An improved three-dimensional implicit discrete velocity method on unstructured meshes for all Knudsen number flows. Journal of Computational Physics, 2019, 396, 738-760. | 3.8 | 32 |
| 39 | An improved discrete gas-kinetic scheme for two-dimensional viscous incompressible and compressible flows. Physics of Fluids, 2019, 31, . | 4.0 | 10 |
| 40 | Development of multicomponent lattice Boltzmann flux solver for simulation of compressible viscous reacting flows. Physical Review E, 2019, 100, 033315. | 2.1 | 7 |
| 41 | Numerical and experimental investigation into hypersonic boundary layer transition induced by roughness elements. Chinese Journal of Aeronautics, 2019, 32, 559-567. | 5.3 | 8 |
| 42 | An improved axisymmetric lattice Boltzmann flux solver for axisymmetric isothermal/thermal flows. International Journal for Numerical Methods in Fluids, 2019, 90, 632-650. | 1.6 | 2 |
| 43 | Numerical investigation on performance of three solution reconstructions at cell interface in DVM simulation of flows in all Knudsen number regimes. International Journal for Numerical Methods in Fluids, 2019, 90, 545-563. | 1.6 | 6 |
| 44 | Simulation of conjugate heat transfer problems by lattice Boltzmann flux solver. International Journal of Heat and Mass Transfer, 2019, 137, 895-907. | 4.8 | 20 |
| 45 | High-order least-square-based finite-differenceâ€“finite-volume method for simulation of incompressible thermal flows on arbitrary grids. Physical Review E, 2019, 100, 063308. | 2.1 | 11 |
| 46 | Phase difference effect on collective locomotion of two tandem autopropelled flapping foils. Physical Review Fluids, 2019, 4, . | 2.5 | 33 |
| 47 | On the re-initialization of fluid interfaces in diffuse interface method. Computers and Fluids, 2018, 166, 209-217. | 2.5 | 11 |
| 48 | Development of an efficient gas kinetic scheme for simulation of two-dimensional incompressible thermal flows. Physical Review E, 2018, 97, 013305. | 2.1 | 15 |
| 49 | An implicit scheme with memory reduction technique for steady state solutions of DVBE in all flow regimes. Physics of Fluids, 2018, 30, . | 4.0 | 18 |
| 50 | 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 |
| 51 | Optical Fiber Displacement Sensor Based on Microwave Photonics Interferometry. Sensors, 2018, 18, 3702. | 3.8 | 9 |
| 52 | Improved fully implicit discrete-velocity method for efficient simulation of flows in all flow regimes. Physical Review E, 2018, 98, . | 2.1 | 24 |
| 53 | Development of lattice Boltzmann flux solver for simulation of hypersonic flow past flight vehicles. Journal of Physics: Conference Series, 2018, 1053, 012073. | 0.4 | 0 |
| 54 | An improved discrete velocity method (DVM) for efficient simulation of flows in all flow regimes. Physics of Fluids, 2018, 30, . | 4.0 | 38 |

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|---|---|---|---|
| 55 | Circular Function-Based Gas-Kinetic Scheme for Simulation of Viscous Compressible Flows. Lecture Notes in Computer Science, 2018, , 37-47. | 1.3 | 0 |
| 56 | 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 |
| 57 | 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 |
| 58 | Development of circular functionâ€based gasâ€kinetic scheme (CGKS) on moving grids for unsteady flows through oscillating cascades. International Journal for Numerical Methods in Fluids, 2017, 84, 715-736. | 1.6 | 4 |
| 59 | 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 |
| 60 | 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 |
| 61 | A Simplified Lattice Boltzmann Method without Evolution of Distribution Function. Advances in Applied Mathematics and Mechanics, 2017, 9, 1-22. | 1.2 | 68 |
| 62 | An immersed boundary-simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible flows. Physics of Fluids, 2017, 29, . | 4.0 | 39 |
| 63 | A simple gas kinetic scheme for simulation of 3D incompressible thermal flows. Numerical Heat Transfer, Part B: Fundamentals, 2017, 72, 450-468. | 0.9 | 9 |
| 64 | 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 |
| 65 | Numerical Simulation of Microflows by a DOM With Streaming and Collision Processes. , 2016, , . | | 1 |
| 66 | Numerical study on the freely falling plate: Effects of density ratio and thickness-to-length ratio. Physics of Fluids, 2016, 28, . | 4.0 | 15 |
| 67 | A Hybrid Lattice Boltzmann Flux Solver for Simulation of Viscous Compressible Flows. Advances in Applied Mathematics and Mechanics, 2016, 8, 887-910. | 1.2 | 34 |
| 68 | A Switch Function-Based Gas-Kinetic Scheme for Simulation of Inviscid and Viscous Compressible Flows. Advances in Applied Mathematics and Mechanics, 2016, 8, 703-721. | 1.2 | 7 |
| 69 | 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 |
| 70 | 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 |
| 71 | Extension of lattice Boltzmann flux solver for simulation of 3D viscous compressible flows. Computers and Mathematics With Applications, 2016, 71, 2069-2081. | 2.7 | 23 |
| 72 | 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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| 73 | A boundary condition-enforced immersed boundary method for compressible viscous flows. Computers and Fluids, 2016, 136, 104-113. | 2.5 | 29 |
| 74 | 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 |
| 75 | A fractional-step lattice Boltzmann flux solver for axisymmetric thermal flows. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 111-129. | 0.9 | 13 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | From Lattice Boltzmann Method to Lattice Boltzmann Flux Solver. Entropy, 2015, 17, 7713-7735. | 2.2 | 41 |
| 80 | 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 |
| 81 | A three-dimensional explicit sphere function-based gas-kinetic flux solver for simulation of inviscid compressible flows. Journal of Computational Physics, 2015, 295, 322-339. | 3.8 | 34 |
| 82 | 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 |
| 83 | A simple distribution function-based gas-kinetic scheme for simulation of viscous incompressible and compressible flows. Journal of Computational Physics, 2014, 274, 611-632. | 3.8 | 47 |
| 84 | An efficient boundary condition-implemented immersed boundary-lattice Boltzmann method for simulation of 3D incompressible viscous flows. Computers and Fluids, 2014, 100, 165-175. | 2.5 | 10 |
| 85 | A Boundary Condition-Implemented Immersed Boundary-Lattice Boltzmann Method and Its Application for Simulation of Flows Around a Circular Cylinder. Advances in Applied Mathematics and Mechanics, 2014, 6, 811-829. | 1.2 | 6 |
| 86 | A moment conservation-based non-free parameter compressible lattice Boltzmann model and its application for flux evaluation at cell interface. Computers and Fluids, 2013, 79, 190-199. | 2.5 | 40 |
| 87 | Circular function-based gas-kinetic scheme for simulation of inviscid compressible flows. Journal of Computational Physics, 2013, 255, 540-557. | 3.8 | 45 |
| 88 | Development and Comparative Studies of Three Non-free Parameter Lattice Boltzmann Models for Simulation of Compressible Flows. Advances in Applied Mathematics and Mechanics, 2012, 4, 454-472. | 1.2 | 24 |
| 89 | A visco-hyperelastic constitutive model to characterize both tensile and compressive behavior of rubber. Journal of Applied Polymer Science, 2004, 92, 523-531. | 2.6 | 79 |
| 90 | Wall Modelâ€Based Diffuseâ€Interface Immersed Boundary Method for Simulation of Incompressible Turbulent Flows. International Journal for Numerical Methods in Fluids, 0, , . | 1.6 | 0 |