List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Comparison of the performance of high-order schemes based on the gas-kinetic and HLLC fluxes. Journal of Computational Physics, 2022, 448, 110706. | 3.8 | 8 |
| 2 | A compact high-order gas-kinetic scheme on unstructured mesh for acoustic and shock wave computations. Journal of Computational Physics, 2022, 449, 110812. | 3.8 | 13 |
| 3 | Unified gas-kinetic wave–particle method for gas–particle two-phase flow from dilute to dense solid particle limit. Physics of Fluids, 2022, 34, . | 4.0 | 8 |
| 4 | A p-multigrid compact gas-kinetic scheme for steady-state acceleration. Computers and Fluids, 2022, , 105489. | 2.5 | 1 |
| 5 | Implications of dragonfly's muscle control on flapping kinematics and aerodynamics. Physics of Fluids, 2022, 34, . | 4.0 | 3 |
| 6 | Implications of wing pitching and wing shape on the aerodynamics of a dragonfly. Journal of Fluids and Structures, 2021, 101, 103208. | 3.4 | 10 |
| 7 | The Importance of Flapping Kinematic Parameters in the Facilitation of the Different Flight Modes of Dragonflies. Journal of Bionic Engineering, 2021, 18, 419-427. | 5.0 | 11 |
| 8 | Effects of gradual flexibility and trailing edge shape on propulsive performance of pitching fins. Physics of Fluids, 2021, 33, . | 4.0 | 5 |
| 9 | A Gradient Compression-Based Compact High-Order Gas-Kinetic Scheme on 3D Hybrid Unstructured Meshes. International Journal of Computational Fluid Dynamics, 2021, 35, 485-509. | 1.2 | 4 |
| 10 | An Acoustic and Shock Wave Capturing Compact High-Order Gas-Kinetic Scheme with Spectral-Like Resolution. International Journal of Computational Fluid Dynamics, 2020, 34, 731-756. | 1.2 | 11 |
| 11 | Aerodynamic performance of a free-flying dragonfly—A span-resolved investigation. Physics of Fluids, 2020, 32, 041903. | 4.0 | 22 |
| 12 | A HWENO reconstruction based high-order compact gas-kinetic scheme on unstructured mesh. Journal of Computational Physics, 2020, 410, 109367. | 3.8 | 24 |
| 13 | 10.1063/1.5145199.1., 2020, , . | | 0 |
| 14 | Compact higher-order gas-kinetic schemes with spectral-like resolution for compressible flow simulations. Advances in Aerodynamics, 2019, 1, . | 2.5 | 29 |
| 15 | Limitation principle for computational fluid dynamics. Shock Waves, 2019, 29, 1083-1102. | 1.9 | 7 |
| 16 | Flow Over the Tip Region of a Flexible Cantilever Wing With the Effect of Angle of Attack. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, . | 1.5 | 1 |
| 17 | Effects of flexibility and aspect ratio on the aerodynamic performance of flapping wings. Bioinspiration and Biomimetics, 2018, 13, 036001. | 2.9 | 34 |
| 18 | Borophene and defective borophene as potential anchoring materials for lithium–sulfur batteries: a first-principles study. Journal of Materials Chemistry A, 2018, 6, 2107-2114. | 10.3 | 127 |

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| 19 | A family of high-order gas-kinetic schemes and its comparison with Riemann solver based high-order methods. Journal of Computational Physics, 2018, 356, 150-173. | 3.8 | 39 |
| 20 | Analysis of passive flexion in propelling a plunging plate using a torsion spring model. Journal of Fluid Mechanics, 2018, 857, 562-604. | 3.4 | 17 |
| 21 | Aerodynamic characteristics along the wing span of a dragonfly <i>Pantala Flavescens</i> . Journal of Experimental Biology, 2018, 221, . | 1.7 | 17 |
| 22 | Highly efficient and ultra-stable boron-doped graphite felt electrodes for vanadium redox flow batteries. Journal of Materials Chemistry A, 2018, 6, 13244-13253. | 10.3 | 97 |
| 23 | A compact fourth-order gas-kinetic scheme for the Euler and Navier–Stokes equations. Journal of Computational Physics, 2018, 372, 446-472. | 3.8 | 41 |
| 24 | Unsteady Vortex Interactions for Performance Enhancement of a Free Flying Dragonfly. , 2017, , . | | 1 |
| 25 | A gas-kinetic theory based multidimensional high-order method for the compressible Navier–Stokes solutions. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 733-741. | 3.4 | 1 |
| 26 | Effects of Aspect Ratio on Vortex Dynamics of a Rotating Wing. AIAA Journal, 2017, 55, 4074-4082. | 2.6 | 12 |
| 27 | Boron phosphide monolayer as a potential anode material for alkali metal-based batteries. Journal of Materials Chemistry A, 2017, 5, 672-679. | 10.3 | 217 |
| 28 | Lattice Boltzmann modeling of transport phenomena in fuel cells and flow batteries. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 555-574. | 3.4 | 146 |
| 29 | Morphology of the Discharge Product in Nonâ€aqueous Lithium–Oxygen Batteries: Furrowed Toroid Particles Correspond to a Lower Charge Voltage. Energy Technology, 2016, 4, 393-400. | 3.8 | 18 |
| 30 | A multi-dimensional high-order DG-ALE method based on gas-kinetic theory with application to oscillating bodies. Journal of Computational Physics, 2016, 316, 700-720. | 3.8 | 23 |
| 31 | Aerodynamics, sensing and control of insect-scale flapping-wing flight. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150712. | 2.1 | 104 |
| 32 | A nano-structured RuO ₂ /NiO cathode enables the operation of non-aqueous lithium–air batteries in ambient air. Energy and Environmental Science, 2016, 9, 1783-1793. | 30.8 | 142 |
| 33 | A multi-dimensional high-order discontinuous Galerkin method based on gas kinetic theory for viscous flow computations. Journal of Computational Physics, 2015, 292, 176-193. | 3.8 | 45 |
| 34 | Fixed-Wing Unmanned Aircraft In-Flight Pitch and Yaw Control Moment Sensing. Journal of Aircraft, 2015, 52, 403-420. | 2.4 | 10 |
| 35 | A RuO ₂ nanoparticle-decorated buckypaper cathode for non-aqueous lithium–oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 19042-19049 | 10.3 | 40 |
| 36 | Effects of aspect ratio on flapping wing aerodynamics in animal flight. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 776-786. | 3.4 | 27 |

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|----|---|------|-----------|
| 37 | Lift-drag and flow structures associated with the "clap and fling―motion. Physics of Fluids, 2014, 26, . | 4.0 | 34 |
| 38 | Study on high-Weber-number droplet collision by a parallel, adaptive interface-tracking method. Journal of Fluid Mechanics, 2014, 759, 104-133. | 3.4 | 37 |
| 39 | Analytical model for instantaneous lift and shape deformation of an insect-scale flapping wing in hover. Journal of the Royal Society Interface, 2014, 11, 20140933. | 3.4 | 39 |
| 40 | Optimization of LiMn2O4 electrode properties in a gradient- and surrogate-based framework. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 335-347. | 3.4 | 17 |
| 41 | Combined Experimental and Computational Investigation of Unsteady Structure of Sheet/Cloud Cavitation. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, . | 1.5 | 193 |
| 42 | Supersonic jet and crossflow interaction: Computational modeling. Progress in Aerospace Sciences, 2013, 57, 1-24. | 12.1 | 69 |
| 43 | Fluid Dynamics of Pitching and Plunging Flat Plate at Intermediate Reynolds Numbers. AIAA Journal, 2013, 51, 315-329. | 2.6 | 32 |
| 44 | Approximate Aeroelastic Modeling of Flapping Wings in Hover. AIAA Journal, 2013, 51, 567-583. | 2.6 | 35 |
| 45 | Adaptive control of low-Reynolds number aerodynamics in uncertain environments: Part 1. Disturbance regimes and flow characteristics. Computers and Fluids, 2013, 86, 582-596. | 2.5 | 7 |
| 46 | Adaptive thermo-fluid moving boundary computations for interfacial dynamics. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 999-1021. | 3.4 | 4 |
| 47 | Interfacial flow computations using adaptive Eulerian–Lagrangian method for spacecraft applications. International Journal for Numerical Methods in Fluids, 2012, 68, 1438-1456. | 1.6 | 12 |
| 48 | Flow-Induced Acoustics in Corrugated Pipes. Communications in Computational Physics, 2011, 10, 120-139. | 1.7 | 9 |
| 49 | Effects of flexibility on the aerodynamic performance of flapping wings. Journal of Fluid Mechanics, 2011, 689, 32-74. | 3.4 | 240 |
| 50 | Flow structures of gaseous jets injected into water for underwater propulsion. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 461-472. | 3.4 | 37 |
| 51 | Surrogate-based modeling and dimension reduction techniques for multi-scale mechanics problems. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 845-865. | 3.4 | 27 |
| 52 | A filterâ€based, mass onserving lattice Boltzmann method for immiscible multiphase flows. International Journal for Numerical Methods in Fluids, 2011, 66, 622-647. | 1.6 | 36 |
| 53 | Adaptive Lagrangian–Eulerian computation of propagation and rupture of a liquid plug in a tube. International Journal for Numerical Methods in Fluids, 2011, 67, 1373-1392. | 1.6 | 22 |
| 54 | Modeling of turbulent, isothermal and cryogenic cavitation under attached conditions. Acta Mechanica Sinica/Lixue Xuebao, 2010, 26, 325-353. | 3.4 | 17 |

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| 55 | Micro air vehicle-motivated computational biomechanics in bio-flights: aerodynamics, flight dynamics and maneuvering stability. Acta Mechanica Sinica/Lixue Xuebao, 2010, 26, 863-879. | 3.4 | 41 |
| 56 | Recent progress in flapping wing aerodynamics and aeroelasticity. Progress in Aerospace Sciences, 2010, 46, 284-327. | 12.1 | 802 |
| 57 | Surrogate modelling for characterising the performance of a dielectric barrier discharge plasma actuator. International Journal of Computational Fluid Dynamics, 2010, 24, 281-301. | 1.2 | 5 |
| 58 | Simulations of dynamics of plunge and pitch of a three-dimensional flexible wing in a low Reynolds number flow. Physics of Fluids, 2010, 22, . | 4.0 | 29 |
| 59 | Open loop pitch control of a flapping wing micro-air vehicle using a tail and control mass. , 2010, , . | | 21 |
| 60 | K0202 Aerodynamics and Aeroelasticity of Bio-inspired Micro Air Vehicles. The Reference Collection of Annual Meeting, 2010, 2010.9, 55-56. | 0.0 | 0 |
| 61 | Multiphase fluid dynamics and transport processes of low capillary number cavitating flows. Acta Mechanica Sinica/Lixue Xuebao, 2009, 25, 161-172. | 3.4 | 16 |
| 62 | Near wake vortex dynamics of a hovering hawkmoth. Acta Mechanica Sinica/Lixue Xuebao, 2009, 25, 23-36. | 3.4 | 32 |
| 63 | Shallow and deep dynamic stall for flapping low Reynolds number airfoils. Experiments in Fluids, 2009, 46, 883-901. | 2.4 | 175 |
| 64 | Cryogenic Boiling and Two-Phase Flow during Pipe Chilldown in Earth and Reduced Gravity. Journal of Low Temperature Physics, 2008, 150, 101-122. | 1.4 | 35 |
| 65 | Computational aerodynamics of low Reynolds number plunging, pitching and flexible wings for MAV applications. Acta Mechanica Sinica/Lixue Xuebao, 2008, 24, 351-373. | 3.4 | 122 |
| 66 | Pitfalls of using a single criterion for selecting experimental designs. International Journal for Numerical Methods in Engineering, 2008, 75, 127-155. | 2.8 | 43 |
| 67 | A finite volumeâ€based highâ€order, Cartesian cutâ€cell method for wave propagation. International Journal for Numerical Methods in Fluids, 2008, 56, 1787-1818. | 1.6 | 10 |
| 68 | Surrogate modelâ€based strategy for cryogenic cavitation model validation and sensitivity evaluation. International Journal for Numerical Methods in Fluids, 2008, 58, 969-1007. | 1.6 | 46 |
| 69 | Modeling of dielectric barrier discharge plasma actuator. Journal of Applied Physics, 2008, 103, . | 2.5 | 37 |
| 70 | Computational Aerodynamics of Low Reynolds Number Plunging, Pitching and Flexible Wings for MAV Applications. , 2008, , . | | 32 |
| 71 | Modeling of Fluid Dynamics and Heat Transfer Induced by Dielectric Barrier Plasma Actuator. Journal of Heat Transfer, 2007, 129, 517-525. | 2.1 | 46 |
| 72 | On Optimized Extrapolation Method for Elliptic Problems with Large Coefficient Variation. Journal of Algorithms and Computational Technology, 2007, 1, 495-524. | 0.7 | 2 |

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|----|---|-----|-----------|
| 73 | Flapping Wings and Aerodynamic Lift: The Role of Leading-Edge Vortices. AIAA Journal, 2007, 45, 2817-2819. | 2.6 | 200 |
| 74 | Error assessment of lattice Boltzmann equation method for variable viscosity flows. International Journal for Numerical Methods in Fluids, 2007, 53, 1457-1471. | 1.6 | 1 |
| 75 | Flexible-wing-based micro air vehicles. WIT Transactions on State-of-the-art in Science and Engineering, 2006, , 377-392. | 0.0 | 11 |
| 76 | Time-dependent turbulent cavitating flow computations with interfacial transport and filter-based models. International Journal for Numerical Methods in Fluids, 2005, 49, 739-761. | 1.6 | 112 |
| 77 | Multigrid Computations and Conservation Law Treatment of a Sharp Interface Method. Numerical Heat Transfer, Part B: Fundamentals, 2005, 48, 405-424. | 0.9 | 11 |