# Zhen Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/562921/publications.pdf

Version: 2024-02-01

| 46 | 1,133 | 411340 | 466096 |
|---|---|---|---|
| papers | citations | 20 h-index | 32 g-index |

| 48 | 48 | 48 | 755 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Isotherm-evolution-based interface tracking algorithm for modelling temperature-driven solid-liquid phase-change in multiphase flows. International Journal of Thermal Sciences, 2022, 177, 107541. | 2.6 | 5 |
| 2 | Multiphase smoothed particle hydrodynamics modeling of forced liquid sloshing. International Journal for Numerical Methods in Fluids, 2021, 93, 411-428. | 0.9 | 6 |
| 3 | High-order gas kinetic flux solver for simulation of two dimensional incompressible flows. Physics of Fluids, 2021, 33, 017107. | 1.6 | 8 |
| 4 | A simplified lattice Boltzmann flux solver for multiphase flows with large density ratio. International Journal for Numerical Methods in Fluids, 2021, 93, 1895-1912. | 0.9 | 8 |
| 5 | Phase-field-simplified lattice Boltzmann method for modeling solid-liquid phase change. Physical Review E, 2021, 103, 023308. | 0.8 | 7 |
| 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. | 1.6 | 26 |
| 7 | Gas kinetic flux solver based high-order finite-volume method for simulation of two-dimensional compressible flows. Physical Review E, 2021, 104, 015305. | 0.8 | 6 |
| 8 | Ternary phase-field simplified multiphase lattice Boltzmann method and its application to compound droplet dynamics on solid surface in shear flow. Physical Review Fluids, 2021, 6, . | 1.0 | 8 |
| 9 | Efficient boundary condition-enforced immersed boundary method for incompressible flows with moving boundaries. Journal of Computational Physics, 2021, 441, 110425. | 1.9 | 24 |
| 10 | Mixed convection between rotating sphere and concentric cubical enclosure. Physics of Fluids, 2021, 33, . | 1.6 | 10 |
| 11 | Simplified lattice Boltzmann method for nonâ€Newtonian powerâ€law fluid flows. International Journal for Numerical Methods in Fluids, 2020, 92, 38-54. | 0.9 | 31 |
| 12 | Reduced order modeling-based discrete unified gas kinetic scheme for rarefied gas flows. Physics of Fluids, 2020, 32, 067108. | 1.6 | 19 |
| 13 | On numerical diffusion of simplified lattice Boltzmann method. International Journal for Numerical Methods in Fluids, 2020, 92, 1198-1211. | 0.9 | 7 |
| 14 | Immersed boundaryâ€“simplified thermal lattice Boltzmann method for incompressible thermal flows. Physics of Fluids, 2020, 32, . | 1.6 | 45 |
| 15 | Double distribution function-based discrete gas kinetic scheme for viscous incompressible and compressible flows. Journal of Computational Physics, 2020, 412, 109428. | 1.9 | 5 |
| 16 | Oblique drop impact on thin film: Splashing dynamics at moderate impingement angles. Physics of Fluids, 2020, 32, . | 1.6 | 21 |
| 17 | An improved discrete gas-kinetic scheme for two-dimensional viscous incompressible and compressible flows. Physics of Fluids, 2019, 31, . | 1.6 | 10 |
| 18 | A multiphase smoothed particle hydrodynamics model with lower numerical diffusion. Journal of Computational Physics, 2019, 382, 177-201. | 1.9 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | An improved axisymmetric lattice Boltzmann flux solver for axisymmetric isothermal/thermal flows. International Journal for Numerical Methods in Fluids, 2019, 90, 632-650. | 0.9 | 2 |
| 20 | Study on one-dimensional softening with localization via integrated MPM and SPH. Computational Particle Mechanics, 2019, 6, 629-636. | 1.5 | 3 |
| 21 | A kinetic theory-based axisymmetric lattice Boltzmann flux solver for isothermal and thermal swirling flows. Journal of Computational Physics, 2019, 392, 141-160. | 1.9 | 9 |
| 22 | A simplified axisymmetric lattice Boltzmann method for incompressible swirling and rotating flows. Physics of Fluids, 2019, 31, 023605. | 1.6 | 14 |
| 23 | Multiphase Godunov-Type Smoothed Particle Hydrodynamics Method with Approximate Riemann Solvers. International Journal of Computational Methods, 2019, 16, 1846010. | 0.8 | 4 |
| 24 | Third-order discrete unified gas kinetic scheme for continuum and rarefied flows: Low-speed isothermal case. Physical Review E, 2018, 97, 023306. | 0.8 | 17 |
| 25 | On improvements of simplified and highly stable lattice Boltzmann method: Formulations, boundary treatment, and stability analysis. International Journal for Numerical Methods in Fluids, 2018, 87, 161-179. | 0.9 | 43 |
| 26 | An improved <scp>SPH</scp> model for multiphase flows with large density ratios. International Journal for Numerical Methods in Fluids, 2018, 86, 167-184. | 0.9 | 14 |
| 27 | Numerical Investigation on the Water Entry of Convex Objects Using a Multiphase Smoothed Particle Hydrodynamics Model. International Journal of Computational Methods, 2018, 15, 1850008. | 0.8 | 9 |
| 28 | Improved fully implicit discrete-velocity method for efficient simulation of flows in all flow regimes. Physical Review E, 2018, 98, . | 0.8 | 24 |
| 29 | Simplified multiphase lattice Boltzmann method for simulating multiphase flows with large density ratios and complex interfaces. Physical Review E, 2018, 98, . | 0.8 | 54 |
| 30 | Highly accurate simplified lattice Boltzmann method. Physics of Fluids, 2018, 30, . | 1.6 | 40 |
| 31 | An improved discrete velocity method (DVM) for efficient simulation of flows in all flow regimes. Physics of Fluids, 2018, 30, . | 1.6 | 38 |
| 32 | High-order simplified thermal lattice Boltzmann method for incompressible thermal flows. International Journal of Heat and Mass Transfer, 2018, 127, 1-16. | 2.5 | 31 |
| 33 | Immersed boundary-simplified lattice Boltzmann method for incompressible viscous flows. Physics of Fluids, 2018, 30, . | 1.6 | 45 |
| 34 | The Simplified Lattice Boltzmann Method on Non-Uniform Meshes. Communications in Computational Physics, 2018, 23, . | 0.7 | 18 |
| 35 | An immersed boundary-gas kinetic flux solver for simulation of incompressible flows. Computers and Fluids, 2017, 142, 45-56. | 1.3 | 12 |
| 36 | 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. | 1.9 | 30 |

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|---|---|---|---|
| 37 | Three-dimensional simplified and unconditionally stable lattice Boltzmann method for incompressible isothermal and thermal flows. Physics of Fluids, 2017, 29, 053601. | 1.6 | 27 |
| 38 | A Simplified Lattice Boltzmann Method without Evolution of Distribution Function. Advances in Applied Mathematics and Mechanics, 2017, 9, 1-22. | 0.7 | 68 |
| 39 | A simplified thermal lattice Boltzmann method without evolution of distribution functions. International Journal of Heat and Mass Transfer, 2017, 105, 741-757. | 2.5 | 40 |
| 40 | A Truly Second-Order and Unconditionally Stable Thermal Lattice Boltzmann Method. Applied Sciences (Switzerland), 2017, 7, 277. | 1.3 | 18 |
| 41 | An SPH pressure correction algorithm for multiphase flows with large density ratio. International Journal for Numerical Methods in Fluids, 2016, 81, 765-788. | 0.9 | 12 |
| 42 | An SPH model for multiphase flows with complex interfaces and large density differences. Journal of Computational Physics, 2015, 283, 169-188. | 1.9 | 154 |
| 43 | Numerical studies on sloshing in rectangular tanks using a tree-based adaptive solver and experimental validation. Ocean Engineering, 2014, 82, 20-31. | 1.9 | 20 |
| 44 | A Numerical Investigation Into the Impact Pressures of Different Base Forms Using SPH Method. , 2014, , . | | 0 |
| 45 | An investigation into the pressure on solid walls in 2D sloshing using SPH method. Ocean Engineering, 2013, 59, 129-141. | 1.9 | 73 |
| 46 | A comparative study of truly incompressible and weakly compressible SPH methods for free surface incompressible flows. International Journal for Numerical Methods in Fluids, 2013, 73, 813-829. | 0.9 | 26 |