# Chi Zhang

List of Publications by Year
in descending order

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|---|---|---|---|
| 20 papers | 630 citations | 687363 13 h-index | 794594 19 g-index |
| 20 all docs | 20 docs citations | 20 times ranked | 231 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | A dynamic relaxation method with operator splitting and random-choice strategy for SPH. Journal of Computational Physics, 2022, 458, 111105. | 3.8 | 5 |
| 2 | An efficient and generalized solid boundary condition for SPH: Applications to multi-phase flow and fluidâ€"structure interaction. European Journal of Mechanics, B/Fluids, 2022, 94, 276-292. | 2.5 | 16 |
| 3 | Numerical Investigation of Pollutant Transport in a Realistic Terrain with the SPH-SWE Method. Frontiers in Environmental Science, 2022, 10, . | 3.3 | 1 |
| 4 | An artificial damping method for total Lagrangian SPH method with application in biomechanics. Engineering Analysis With Boundary Elements, 2022, 143, 1-13. | 3.7 | 16 |
| 5 | Particle-based simulation of cold spray: Influence of oxide layer on impact process. Additive Manufacturing, 2021, 37, 101517. | 3.0 | 13 |
| 6 | A multi-resolution SPH method for fluid-structure interactions. Journal of Computational Physics, 2021, 429, 110028. | 3.8 | 81 |
| 7 | The variableâ€extended immersed boundary method for compressible gaseous reactive flows past solid bodies. International Journal for Numerical Methods in Engineering, 2021, 122, 2221-2238. | 2.8 | 0 |
| 8 | A CAD-compatible body-fitted particle generator for arbitrarily complex geometry and its application to wave-structure interaction. Journal of Hydrodynamics, 2021, 33, 195-206. | 3.2 | 27 |
| 9 | Generative adversarial networks with physical evaluators for spray simulation of pintle injector. AIP Advances, 2021, 11, 075007. | 1.3 | 2 |
| 10 | An integrative smoothed particle hydrodynamics method for modeling cardiac function. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113847. | 6.6 | 27 |
| 11 | Modeling of Cavitation Bubble Cloud with Discrete Lagrangian Tracking. Water (Switzerland), 2021, 13, 2684. | 2.7 | 2 |
| 12 | An efficient fully Lagrangian solver for modeling wave interaction with oscillating wave surge converter. Ocean Engineering, 2021, 236, 109540. | 4.3 | 18 |
| 13 | SPHinXsys: An open-source multi-physics and multi-resolution library based on smoothed particle hydrodynamics. Computer Physics Communications, 2021, 267, 108066. | 7.5 | 61 |
| 14 | A consistency-driven particle-advection formulation for weakly-compressible smoothed particle hydrodynamics. Computers and Fluids, 2021, 230, 105140. | 2.5 | 7 |
| 15 | A weakly compressible SPH method for violent multi-phase flows with high density ratio. Journal of Computational Physics, 2020, 402, 109092. | 3.8 | 65 |
| 16 | Dual-criteria time stepping for weakly compressible smoothed particle hydrodynamics. Journal of Computational Physics, 2020, 404, 109135. | 3.8 | 30 |
| 17 | SPHinXsys: An open-source meshless, multi-resolution and multi-physics library. Software Impacts, 2020, 6, 100033. | 1.4 | 29 |
| 18 | A weakly compressible SPH method with WENO reconstruction. Journal of Computational Physics, 2019, 392, 1-18. | 3.8 | 43 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | A weakly compressible SPH method based on a low-dissipation Riemann solver. Journal of Computational Physics, 2017, 335, 605-620. | 3.8 | 119 |
| 20 | A generalized transport-velocity formulation for smoothed particle hydrodynamics. Journal of Computational Physics, 2017, 337, 216-232. | 3.8 | 68 |