Chi Zhang

List of Publications by Citations

18 papers	245 citations	9 h-index	15 g-index
20 ext. papers	448 ext. citations	3.6 avg, IF	4.4 L-index

#	Paper	IF	Citations
18	A weakly compressible SPH method based on a low-dissipation Riemann solver. *Journal of Computational Physics*, **2017**, 335, 605-620	4.1	65
17	A generalized transport-velocity formulation for smoothed particle hydrodynamics. *Journal of Computational Physics*, **2017**, 337, 216-232	4.1	38
16	A weakly compressible SPH method for violent multi-phase flows with high density ratio. *Journal of Computational Physics*, **2020**, 402, 109092	4.1	34
15	A multi-resolution SPH method for fluid-structure interactions. *Journal of Computational Physics*, **2021**, 429, 110028	4.1	22
14	A weakly compressible SPH method with WENO reconstruction. *Journal of Computational Physics*, **2019**, 392, 1-18	4.1	21
13	SPHinXsys: An open-source meshless, multi-resolution and multi-physics library. *Software Impacts*, **2020**, 6, 100033	1.8	13
12	SPHinXsys: An open-source multi-physics and multi-resolution library based on smoothed particle hydrodynamics. *Computer Physics Communications*, **2021**, 267, 108066	4.2	11
11	Dual-criteria time stepping for weakly compressible smoothed particle hydrodynamics. *Journal of Computational Physics*, **2020**, 404, 109135	4.1	10
10	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	3.3	10
9	An integrative smoothed particle hydrodynamics method for modeling cardiac function. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 381, 113847	5.7	9
8	Particle-based simulation of cold spray: Influence of oxide layer on impact process. *Additive Manufacturing*, **2021**, 37, 101517	6.1	6
7	An efficient fully Lagrangian solver for modeling wave interaction with oscillating wave surge converter. *Ocean Engineering*, **2021**, 236, 109540	3.9	4
6	Modeling of Cavitation Bubble Cloud with Discrete Lagrangian Tracking. *Water (Switzerland)*, **2021**, 13, 2684	3	1
5	A dynamic relaxation method with operator splitting and random-choice strategy for SPH. *Journal of Computational Physics*, **2022**, 458, 111105	4.1	1
4	Generative adversarial networks with physical evaluators for spray simulation of pintle injector. *AIP Advances*, **2021**, 11, 075007	1.5	0
3	A consistency-driven particle-advection formulation for weakly-compressible smoothed particle hydrodynamics. *Computers and Fluids*, **2021**, 230, 105140	2.8	0
2	An efficient and generalized solid boundary condition for SPH: Applications to multi-phase flow and fluid–structure interaction. *European Journal of Mechanics, B/Fluids*, **2022**, 94, 276-292	2.4	0

List of Publications

1. The variable-extended immersed boundary method for compressible gaseous reactive flows past solid bodies. *International Journal for Numerical Methods in Engineering*, **2021**, 122, 2221-2238   2.4