Chi Zhang

List of Publications by Year
in descending order

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 weakly compressible SPH method based on a low-dissipation Riemann solver. Journal of Computational Physics, 2017, 335, 605-620.	3.8	119
2	A multi-resolution SPH method for fluid-structure interactions. Journal of Computational Physics, 2021, 429, 110028.	3.8	81
3	A generalized transport-velocity formulation for smoothed particle hydrodynamics. Journal of Computational Physics, 2017, 337, 216-232.	3.8	68
4	A weakly compressible SPH method for violent multi-phase flows with high density ratio. Journal of Computational Physics, 2020, 402, 109092.	3.8	65
5	SPHinXsys: An open-source multi-physics and multi-resolution library based on smoothed particle hydrodynamics. Computer Physics Communications, 2021, 267, 108066.	7.5	61
6	A weakly compressible SPH method with WENO reconstruction. Journal of Computational Physics, 2019, 392, 1-18.	3.8	43
7	Dual-criteria time stepping for weakly compressible smoothed particle hydrodynamics. Journal of Computational Physics, 2020, 404, 109135.	3.8	30
8	SPHinXsys: An open-source meshless, multi-resolution and multi-physics library. Software Impacts, 2020, 6, 100033.	1.4	29
9	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
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	An efficient fully Lagrangian solver for modeling wave interaction with oscillating wave surge converter. Ocean Engineering, 2021, 236, 109540.	4.3	18
12	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
13	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
14	Particle-based simulation of cold spray: Influence of oxide layer on impact process. Additive Manufacturing, 2021, 37, 101517.	3.0	13
15	A consistency-driven particle-advection formulation for weakly-compressible smoothed particle hydrodynamics. Computers and Fluids, 2021, 230, 105140.	2.5	7
16	A dynamic relaxation method with operator splitting and random-choice strategy for SPH. Journal of Computational Physics, 2022, 458, 111105.	3.8	5
17	Generative adversarial networks with physical evaluators for spray simulation of pintle injector. AIP Advances, 2021, 11, 075007.	1.3	2
18	Modeling of Cavitation Bubble Cloud with Discrete Lagrangian Tracking. Water (Switzerland), 2021, 13, 2684.	2.7	2

#	Article	IF	Citations
19	Numerical Investigation of Pollutant Transport in a Realistic Terrain with the SPH-SWE Method. Frontiers in Environmental Science, 2022, 10, .	3.3	1
20	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.	2.8	0