

Chi Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

630
citations

687335

13
h-index

794568

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. <i>Journal of Computational Physics</i> , 2017, 335, 605-620.	3.8	119
2	A multi-resolution SPH method for fluid-structure interactions. <i>Journal of Computational Physics</i> , 2021, 429, 110028.	3.8	81
3	A generalized transport-velocity formulation for smoothed particle hydrodynamics. <i>Journal of Computational Physics</i> , 2017, 337, 216-232.	3.8	68
4	A weakly compressible SPH method for violent multi-phase flows with high density ratio. <i>Journal of Computational Physics</i> , 2020, 402, 109092.	3.8	65
5	SPHinXsys: An open-source multi-physics and multi-resolution library based on smoothed particle hydrodynamics. <i>Computer Physics Communications</i> , 2021, 267, 108066.	7.5	61
6	A weakly compressible SPH method with WENO reconstruction. <i>Journal of Computational Physics</i> , 2019, 392, 1-18.	3.8	43
7	Dual-criteria time stepping for weakly compressible smoothed particle hydrodynamics. <i>Journal of Computational Physics</i> , 2020, 404, 109135.	3.8	30
8	SPHinXsys: An open-source meshless, multi-resolution and multi-physics library. <i>Software Impacts</i> , 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. <i>Journal of Hydrodynamics</i> , 2021, 33, 195-206.	3.2	27
10	An integrative smoothed particle hydrodynamics method for modeling cardiac function. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 381, 113847.	6.6	27
11	An efficient fully Lagrangian solver for modeling wave interaction with oscillating wave surge converter. <i>Ocean Engineering</i> , 2021, 236, 109540.	4.3	18
12	An efficient and generalized solid boundary condition for SPH: Applications to multi-phase flow and fluid-structure interaction. <i>European Journal of Mechanics, B/Fluids</i> , 2022, 94, 276-292.	2.5	16
13	An artificial damping method for total Lagrangian SPH method with application in biomechanics. <i>Engineering Analysis With Boundary Elements</i> , 2022, 143, 1-13.	3.7	16
14	Particle-based simulation of cold spray: Influence of oxide layer on impact process. <i>Additive Manufacturing</i> , 2021, 37, 101517.	3.0	13
15	A consistency-driven particle-advection formulation for weakly-compressible smoothed particle hydrodynamics. <i>Computers and Fluids</i> , 2021, 230, 105140.	2.5	7
16	A dynamic relaxation method with operator splitting and random-choice strategy for SPH. <i>Journal of Computational Physics</i> , 2022, 458, 111105.	3.8	5
17	Generative adversarial networks with physical evaluators for spray simulation of pintle injector. <i>AIP Advances</i> , 2021, 11, 075007.	1.3	2
18	Modeling of Cavitation Bubble Cloud with Discrete Lagrangian Tracking. <i>Water (Switzerland)</i> , 2021, 13, 2684.	2.7	2

#	ARTICLE	IF	CITATIONS
19	Numerical Investigation of Pollutant Transport in a Realistic Terrain with the SPH-SWE Method. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	1
20	The variable-extended immersed boundary method for compressible gaseous reactive flows past solid bodies. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 2221-2238.	2.8	0