

Xiangwei Dong

List of Publications by Year in descending order

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32
papers

375
citations

949033

11
h-index

939365

18
g-index

32
all docs

32
docs citations

32
times ranked

300
citing authors

#	ARTICLE	IF	CITATIONS
1	A weakly compressible smoothed particle hydrodynamics framework for melting multiphase flow. AIP Advances, 2022, 12, 025329.	0.6	1
2	Two-dimensional smoothed particle hydrodynamics (SPH) simulation of multiphase melting flows and associated interface behavior. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 588-629.	1.5	7
3	Water drops impact on a PVDF cantilever: droplet dynamics and voltage output. Journal of Adhesion Science and Technology, 2021, 35, 485-503.	1.4	2
4	Numerical simulation of particle fracture and surface erosion due to single particle impact. AIP Advances, 2021, 11, .	0.6	4
5	SPH-FEM simulation of concrete breaking process due to impact of high-speed water jet. AIP Advances, 2021, 11, .	0.6	9
6	Experiment and Simulation of Erosion Behavior and Deformation Characteristics in Al6061-T6 Beam Due to Rhomboid Particle Impacts. Tribology Letters, 2021, 69, 1.	1.2	0
7	Experimental study of a piezoelectric cantilever beam under droplet impact. E3S Web of Conferences, 2021, 233, 01006.	0.2	0
8	Angular Particle Impact on Metallic Surfaces with Dynamic Refinement SPH. Tribology Letters, 2020, 68, 1.	1.2	1
9	Modeling of Waterjet Abrasion in Mining Processes Based on the Smoothed Particle Hydrodynamics (SPH) Method. International Journal of Computational Methods, 2020, 17, 1950075.	0.8	4
10	Dynamic Response of PVDF Cantilever Due to Droplet Impact Using an Electromechanical Model. Sensors, 2020, 20, 5764.	2.1	6
11	Numerical investigation of water droplet impact on horizontal beams. International Journal of Modern Physics C, 2020, 31, 2050118.	0.8	0
12	Smoothed particle hydrodynamics simulation of underwater explosions with dynamic particle refinement. AIP Advances, 2020, 10, .	0.6	3
13	Experiment and simulation study of erosion mechanism in float glass due to rhomboid particle impacts. International Journal of Impact Engineering, 2020, 139, 103513.	2.4	10
14	A conservative and consistent Lagrangian gradient smoothing method for simulating free surface flows in hydrodynamics. Computational Particle Mechanics, 2019, 6, 781-801.	1.5	10
15	Droplet impact induced large deflection of a cantilever. Physics of Fluids, 2019, 31, .	1.6	14
16	Single Pyramid-Shaped Particle Impact on Metallic Surfaces: A 3D Numerical Simulation and Experiment. Tribology Letters, 2019, 67, 1.	1.2	13
17	A comparative study of ductile and brittle materials due to single angular particle impact. Wear, 2019, 428-429, 258-271.	1.5	20
18	Smoothed particle hydrodynamics (SPH) simulation of impinging jet flows containing abrasive rigid bodies. Computational Particle Mechanics, 2019, 6, 479-501.	1.5	15

#	ARTICLE	IF	CITATIONS
19	Modeling and simulation of droplet impact on elastic beams based on SPH. <i>European Journal of Mechanics, A/Solids</i> , 2019, 75, 237-257.	2.1	33
20	Study on the effects of abrasive particle shape on the cutting performance of Ti-6Al-4V materials based on the SPH method. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 3167-3182.	1.5	15
21	Quasi-static simulation of droplet morphologies using a smoothed particle hydrodynamics multiphase model. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 32-44.	1.5	12
22	A Development of a SPH Model for Simulating Surface Erosion by Impact(s) of Irregularly Shaped Particles. <i>International Journal of Computational Methods</i> , 2018, 15, 1850074.	0.8	4
23	Modeling of orthogonal cutting process of A2024-T351 with an improved SPH method. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 905-919.	1.5	23
24	Contact-angle implementation in multiphase smoothed particle hydrodynamics simulations. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 2128-2149.	1.4	1
25	Numerical Study of Impact Behaviors of Angular Particles on Metallic Surface Using Smoothed Particle Hydrodynamics. <i>Tribology Transactions</i> , 2017, 60, 693-710.	1.1	14
26	Analysis of surface-erosion mechanism due to impacts of freely rotating angular particles using smoothed particle hydrodynamics erosion model. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2017, 231, 1537-1551.	1.0	4
27	Smoothed particle hydrodynamics (SPH) modeling of shot peening process. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2017, 17, 799-825.	0.1	1
28	A comprehensive study on the parameters setting in smoothed particle hydrodynamics (SPH) method applied to hydrodynamics problems. <i>Computers and Geotechnics</i> , 2017, 92, 77-95.	2.3	58
29	Modeling, simulation, and analysis of the impact(s) of single angular-type particles on ductile surfaces using smoothed particle hydrodynamics. <i>Powder Technology</i> , 2017, 318, 363-382.	2.1	23
30	A smoothed particle hydrodynamics (SPH) model for simulating surface erosion by impacts of foreign particles. <i>Tribology International</i> , 2016, 95, 267-278.	3.0	67
31	Angular particle impact on ductile materials using the Lagrangian gradient smoothing method. <i>Tribology Transactions</i> , 0, , 1-19.	1.1	0
32	Improved Smoothed Particle Hydrodynamics (SPH) Model for Simulation of Abrasive Water-Jet (AWJ). <i>International Journal of Computational Methods</i> , 0, , .	0.8	1