Hao Zhang

List of Publications by Year in descending order

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Ηλο ΖΗΛΝΟ

#	Article	IF	CITATIONS
1	DEM/CFD-DEM Modelling of Non-spherical Particulate Systems: Theoretical Developments and Applications. Powder Technology, 2016, 302, 108-152.	4.2	437
2	CFD simulation of dense particulate reaction system: Approaches, recent advances and applications. Chemical Engineering Science, 2016, 140, 16-43.	3.8	245
3	Numerical investigation of the location of maximum erosive wear damage in elbow: Effect of slurry velocity, bend orientation and angle of elbow. Powder Technology, 2012, 217, 467-476.	4.2	106
4	Numerical investigation on the role of discrete element method in combined LBM–IBM–DEM modeling. Computers and Fluids, 2014, 94, 37-48.	2.5	76
5	CFD-DEM study on heat transfer characteristics and microstructure of the blast furnace raceway with ellipsoidal particles. Powder Technology, 2019, 346, 350-362.	4.2	50
6	Prediction on drag force and heat transfer of spheroids in supercritical water: A PR-DNS study. Powder Technology, 2019, 342, 99-107.	4.2	46
7	Numerical investigation on the effect of the incident angle on momentum and heat transfer of spheroids in supercritical water. Computers and Fluids, 2019, 179, 533-542.	2.5	45
8	On the drag coefficient and averaged Nusselt number of an ellipsoidal particle in a fluid. Powder Technology, 2018, 325, 134-144.	4.2	39
9	A combined TLBM–IBM–DEM scheme for simulating isothermal particulate flow in fluid. International Journal of Heat and Mass Transfer, 2015, 91, 178-189.	4.8	37
10	PIBM: Particulate immersed boundary method for fluid–particle interaction problems. Powder Technology, 2015, 272, 1-13.	4.2	34
11	Influence of particle shape on microstructure and heat transfer characteristics in blast furnace raceway with CFD-DEM approach. Powder Technology, 2020, 361, 283-296.	4.2	32
12	Numerical prediction on the drag force and heat transfer of non-spherical particles in supercritical water. Powder Technology, 2020, 361, 414-423.	4.2	27
13	Numerical prediction on the minimum fluidization velocity of a supercritical water fluidized bed reactor: Effect of particle size distributions. Powder Technology, 2021, 389, 119-130.	4.2	25
14	MPFEM simulation of compaction densification behavior of Fe-Al composite powders with different size ratios. Journal of Alloys and Compounds, 2018, 741, 473-481.	5.5	24
15	Drag coefficient and averaged Nusselt number of a scalene prolate ellipsoid. Applied Mathematical Modelling, 2018, 64, 556-571.	4.2	23
16	Numerical investigation on the mutual interaction between heat transfer and non-spherical particle dynamics in the blast furnace raceway. International Journal of Heat and Mass Transfer, 2020, 153, 119577.	4.8	23
17	Particulate Immersed Boundary Method for complex fluid–particle interaction problems with heat transfer. Computers and Mathematics With Applications, 2016, 71, 391-407.	2.7	18
18	Process simulation on atomization and evaporation of desulfurization wastewater and its application. Powder Technology, 2021, 389, 178-188.	4.2	17

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19	CFD-DEM modeling on air impact densification of equal spheres: Structure evolution, dynamics, and mechanism. Powder Technology, 2017, 322, 177-184.	4.2	15
20	A GPU-based discrete element modeling code and its application in die filling. Computers and Fluids, 2015, 110, 235-244.	2.5	13
21	Multi-particle FEM modelling on hot pressing of TiC-316L composite powders. Powder Technology, 2020, 361, 389-399.	4.2	13
22	PR-DNS on the momentum and heat transfer of a rotating ellipsoidal particle in a fluid. Powder Technology, 2020, 373, 152-163.	4.2	13
23	Numerical prediction on minimum fluidization velocity of a supercritical water fluidized bed reactor: Effect of particle shape. Powder Technology, 2022, 403, 117397.	4.2	12
24	Boundary effects on the drag coefficient and average Nusselt number of a sphere in SCW: A comparative study. Engineering Analysis With Boundary Elements, 2019, 102, 1-10.	3.7	11
25	Macro- and microscopic analyses of piles formed by Platonic solids. Chemical Engineering Science, 2019, 205, 391-400.	3.8	10
26	Numerical study on the erosion process of the low temperature economizer using computational fluid dynamics-discrete particle method. Wear, 2020, 450-451, 203269.	3.1	10
27	Particle scale study on the crystallization of mono-sized cylindrical particles subject to vibration. Powder Technology, 2019, 352, 470-477.	4.2	8
28	Numerical investigation on cold flow dynamics of supercritical water fluidized bed reactor with inclined distributor: Design and scale up. Particuology, 2022, 67, 90-102.	3.6	7
29	CFD-DEM study on fluidization characteristics of gas-solid fluidized bed reactor containing ternary mixture. Powder Technology, 2022, 401, 117354.	4.2	7
30	Numerical investigation on fluidization characteristics of binary particles in supercritical water fluidized bed reactor under pulsed conditions. Powder Technology, 2022, 405, 117536.	4.2	7
31	Effect of particle shape on raceway size and pressure drop in a blast furnace: Experimental, numerical and theoretical analyses. Advanced Powder Technology, 2022, 33, 103455.	4.1	6
32	Numerical simulation on flow and evaporation characteristics of desulfurization wastewater in a bypass flue. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 411-421.	3.1	4
33	Numerical study on the momentum and heat transfer of porous spheroids under laminar flow. Powder Technology, 2022, 395, 14-25.	4.2	4
34	Air impact induced densest amorphous granular materials: Formation, dynamics, and mechanisms. Physical Review B, 2022, 105, .	3.2	4
35	Numerical investigation on the scale-up rules of a supercritical water fluidized bed reactor using the two-fluid model. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1830-1842.	3.1	2
36	Microstructure evolution and densification behavior of TiC/316L composite powders during cold/warm die compaction and solid-state sintering: 3D particulate scale numerical modelling and experimental validation. Advanced Powder Technology, 2022, 33, 103667.	4.1	2

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37	Process simulation and optimization of flow field in wet electrostatic precipitator. Journal of Central South University, 2020, 27, 132-143.	3.0	1
38	CFD-DEM numerical study on air impacted packing densification of equiaxed cylindrical particles. Advanced Powder Technology, 2022, 33, 103641.	4.1	1
39	Multiscale and Multiphase Computational Particle Technology. Mathematical Problems in Engineering, 2020, 2020, 1-1.	1.1	0