List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Numerical investigation of non-uniform sand retention behavior in sand screens. Powder Technology, 2022, 395, 604-617.	4.2	5
2	Experimental investigation of the leak-off effect on proppant transportation and distribution in a vertical fracture. Journal of Natural Gas Science and Engineering, 2022, 97, 104358.	4.4	10
3	Particle shape effect on hydrodynamics and heat transfer in spouted bed: A CFD–DEM study. Particuology, 2022, 69, 10-21.	3.6	16
4	Investigation of mini-hydrocyclone performance in removing small-size microplastics. Particuology, 2022, 71, 1-10.	3.6	22
5	Optimization of pulverized coal injection (PCI) rate in an ironmaking blast furnace by an integrated process model. Fuel, 2022, 315, 122832.	6.4	10
6	Experimental and numerical analysis of Chinese hamster ovary cell viability loss in mini-hydrocyclones. Separation and Purification Technology, 2022, 295, 121203.	7.9	13
7	Numerical modeling and analysis of hydrogen blast furnace ironmaking process. Fuel, 2022, 323, 124368.	6.4	28
8	CFD-DEM evaluation of screen types for sand control applications. Powder Technology, 2022, 404, 117496.	4.2	13
9	Numerical Investigation of Shaft Gas Injection Operation in Oxygen-Enriched Ironmaking Blast Furnace. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 2712-2734.	2.1	7
10	Multi-objective optimization of hydrocyclone by combining mechanistic and data-driven models. Powder Technology, 2022, 407, 117674.	4.2	14
11	CFD Modeling and Analysis of Particle Size Reduction and Its Effect on Blast Furnace Ironmaking. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 138-155.	2.1	18
12	Visual lab tests: Proppant transportation in a 3D printed vertical hydraulic fracture with two-sided rough surfaces. Journal of Petroleum Science and Engineering, 2021, 196, 107738.	4.2	27
13	CFD-DEM study of particle-fluid flow and retention performance of sand screen. Powder Technology, 2021, 378, 410-420.	4.2	33
14	On a modified pseudopotential lattice Boltzmann model for multicomponent flows. Applied Mathematics Letters, 2021, 114, 106926.	2.7	14
15	Numerical Simulation of the Pilot-Scale High-Density Circulating Fluidized Bed Riser. Industrial & Engineering Chemistry Research, 2021, 60, 3184-3197.	3.7	10
16	Numerical Simulation of 3D Asymmetric Inner States of an Ironmaking Blast Furnace Resulting from Tuyere Closure. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 2642-2658.	2.1	11
17	Numerical investigation of oxygen-enriched operations in blast furnace ironmaking. Fuel, 2021, 296, 120662.	6.4	25
18	Turbulent coarse-particle non-Newtonian suspension flow in a pipe. International Journal of Multiphase Flow, 2021, 142, 103698.	3.4	16

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19	CFD-DEM analysis of hydraulic conveying bends: Interaction between pipe orientation and flow regime. Powder Technology, 2021, 392, 619-631.	4.2	35
20	Numerical investigation of elbow erosion in the conveying of dry and wet particles. Powder Technology, 2021, 393, 265-279.	4.2	16
21	How Particles with Sizes Close to Cut Size Affect the Multiphase Flows and Performance of Hydrocyclones. Industrial & Engineering Chemistry Research, 2021, 60, 18477-18489.	3.7	3
22	CFD-DEM modelling and simulation of pneumatic conveying: A review. Powder Technology, 2020, 365, 186-207.	4.2	166
23	Numerical simulation of dense-phase pneumatic transport of powder in horizontal pipes. Powder Technology, 2020, 361, 62-73.	4.2	21
24	Orientation of spheroidal particles in single jet bubbling fluidized beds. Powder Technology, 2020, 361, 363-373.	4.2	14
25	CFD-DEM Simulation of Large-Scale Dilute-Phase Pneumatic Conveying System. Industrial & Engineering Chemistry Research, 2020, 59, 4150-4160.	3.7	34
26	Capillary forces on wet particles with a liquid bridge transition from convex to concave. Powder Technology, 2020, 363, 59-73.	4.2	31
27	Effect of van der Waals force on bubble dynamics in bubbling fluidized beds of ellipsoidal particles. Chemical Engineering Science, 2020, 212, 115343.	3.8	19
28	Three-Dimensional Modeling of an Ironmaking Blast Furnace with a Layered Cohesive Zone. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 258-275.	2.1	33
29	Experimental and numerical study of coarse particle conveying in the small absorber sphere system: Overview and some recent CFD-DEM simulations. Nuclear Engineering and Design, 2020, 357, 110420.	1.7	7
30	Turbulent coarse-particle suspension flow: Measurement and modelling. Powder Technology, 2020, 373, 647-659.	4.2	24
31	Modeling and analysis of flow regimes in hydraulic conveying of coarse particles. Powder Technology, 2020, 373, 543-554.	4.2	48
32	An Integrated Mathematical Model for Ironmaking Blast Furnace. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2211-2229.	2.1	8
33	Discrete particle simulation of heterogeneous gas-solid flows in riser and downer reactors. Powder Technology, 2020, 375, 221-232.	4.2	19
34	A generalized lattice Boltzmann model for solid–liquid phase change with variable density and thermophysical properties. Applied Mathematics Letters, 2020, 104, 106250.	2.7	11
35	Lattice Boltzmann investigation on fluid flows through packed beds: Interaction between fluid rheology and bed properties. Powder Technology, 2020, 369, 248-260.	4.2	21
36	A Transient Discrete Element Methodâ€Based Virtual Experimental Blast Furnace Model. Steel Research International, 2020, 91, 2000071.	1.8	20

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37	A process scaling approach for CFD-DEM modelling of thermochemical behaviours in moving bed reactors. Fuel Processing Technology, 2020, 202, 106369.	7.2	24
38	Numerical Investigation of Hydrocyclone Feed Inlet Configurations for Mitigating Particle Misplacement. Industrial & Engineering Chemistry Research, 2019, 58, 16823-16833.	3.7	31
39	Bubble dynamics in bubbling fluidized beds of ellipsoidal particles. AICHE Journal, 2019, 65, e16736.	3.6	25
40	CFD-DEM modelling of hydraulic conveying of solid particles in a vertical pipe. Powder Technology, 2019, 354, 893-905.	4.2	97
41	Numerical investigation of burden distribution in ironmaking blast furnace. Powder Technology, 2019, 353, 385-397.	4.2	40
42	Particle shape effect on bubble dynamics in central air jet pseudo-2D fluidized beds: A CFD-DEM study. Chemical Engineering Science, 2019, 201, 448-466.	3.8	44
43	CFD simulation of dilute-phase pneumatic conveying of powders. Powder Technology, 2019, 349, 70-83.	4.2	38
44	Direct numerical simulation of turbulent non-Newtonian flow using OpenFOAM. Applied Mathematical Modelling, 2019, 72, 50-67.	4.2	26
45	Lattice Boltzmann investigation of non-Newtonian fluid flow through a packed bed of uniform spheres. Powder Technology, 2019, 343, 225-236.	4.2	26
46	Modeling of the variations of permeate flux, concentration polarization, and solute rejection in nanofiltration system. AICHE Journal, 2019, 65, 1076-1087.	3.6	15
47	Prediction of separation performance of hydrocyclones by a PC-based model. Separation and Purification Technology, 2019, 211, 141-150.	7.9	31
48	Numerical Investigation of Novel Oxygen Blast Furnace Ironmaking Processes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1995-2010.	2.1	31
49	Model A vs. Model B in the modelling of particle-fluid flow. Powder Technology, 2018, 329, 47-54.	4.2	24
50	Lattice Boltzmann investigation of the wake effect on the interaction between particle and power-law fluid flow. Powder Technology, 2018, 326, 208-221.	4.2	32
51	Numerical Investigation of Gas–Liquid Flow in a Newly Developed Carbonation Reactor. Industrial & Engineering Chemistry Research, 2018, 57, 380-391.	3.7	10
52	The computation of strain rate tensor in multiple-relaxation-time lattice Boltzmann model. Computers and Mathematics With Applications, 2018, 75, 2888-2902.	2.7	1
53	Investigation on vertical plug formation of coarse particles in a non-mechanical feeder by CFD-DEM coupling method. Powder Technology, 2018, 332, 79-89.	4.2	45
54	Review on Modeling and Simulation of Blast Furnace. Steel Research International, 2018, 89, 1700071.	1.8	133

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55	Modeling the Multiphase Flow in Hydrocyclones Using the Coarse-Grained Volume of Fluid—Discrete Element Method and Mixture-Discrete Element Method Approaches. Industrial & Engineering Chemistry Research, 2018, 57, 9641-9655.	3.7	41
56	Particle scale modelling of bubble properties in central air jet gas-solid fluidized beds. Powder Technology, 2018, 339, 70-80.	4.2	20
57	Characteristics of red mud slurry flow in carbonation reactor. Powder Technology, 2017, 311, 66-76.	4.2	17
58	A DEM-based approach for analyzing energy transitions in granular and particle-fluid flows. Chemical Engineering Science, 2017, 161, 67-79.	3.8	23
59	Mathematical Modeling of Liquid Slag Layer Fluctuation and Slag Droplets Entrainment in a Continuous Casting Mold Based on VOF-LES Method. High Temperature Materials and Processes, 2017, 36, 551-565.	1.4	14
60	A Reaction Method for Estimating Gibbs Energy and Enthalpy of Formation of Complex Minerals. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1123-1133.	2.1	8
61	DEM-based virtual experimental blast furnace: A quasi-steady state model. Powder Technology, 2017, 314, 557-566.	4.2	74
62	Numerical Investigation of the Inner Profiles of Ironmaking Blast Furnaces: Effect of Throat-to-Belly Diameter Ratio. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 602-618.	2.1	19
63	LBM-LES Simulation of the Transient Asymmetric Flow and Free Surface Fluctuations under Steady Operating Conditions of Slab Continuous Casting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 456-470.	2.1	20
64	Computational analysis and optimization of hydrocyclone size to mitigate adverse effect of particle density. Separation and Purification Technology, 2017, 174, 251-263.	7.9	59
65	Dissection Investigation of Ti(C,N) Behavior in Blast Furnace Hearth during Vanadium Titano-magnetite Smelting. ISIJ International, 2017, 57, 48-54.	1.4	47
66	Transferring Characteristics of Momentum/Energy during Oxygen Jetting into the Molten Bath in BOFs: A Computational Exploration. Steel Research International, 2016, 87, 288-300.	1.8	19
67	Microstructure and Wear Resistance of a Novel Mo-Ni-Si System Intermetallic Composite with Ductile Mo Phase. Materials Transactions, 2016, 57, 721-725.	1.2	4
68	Computational investigation of the effect of particle density on the multiphase flows and performance of hydrocyclone. Minerals Engineering, 2016, 90, 55-69.	4.3	90
69	Computational Investigation of the Splashing Phenomenon Induced by the Impingement of Multiple Supersonic Jets onto a Molten Slag–Metal Bath. Industrial & Engineering Chemistry Research, 2016, 55, 3630-3640.	3.7	34
70	Understanding Characteristic of Abrasion of Refractory Lining Caused by Bath Oscillation in BOF Steelmaking. Jom, 2016, 68, 3126-3133.	1.9	14
71	Determination of Cavity Dimensions Induced by Impingement of Gas Jets onto a Liquid Bath. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 116-126.	2.1	36
72	Coalescence Characteristics of Supersonic Jets From Multi-Nozzle Oxygen Lance in Steelmaking BOF. Steel Research International, 2015, 86, 1517-1529.	1.8	31

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73	Numerical Simulation of the Interaction Between Supersonic Oxygen Jets and Molten Slag–Metal Bath in Steelmaking BOF Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1494-1509.	2.1	85
74	Numerical investigation of the separation behaviours of fine particles in large dense medium cyclones. International Journal of Mineral Processing, 2015, 142, 35-45.	2.6	34
75	CFD modeling and analysis of the multiphase flow and performance of dense medium cyclones. Minerals Engineering, 2014, 62, 43-54.	4.3	48
76	Numerical analysis of hydrocyclones with different conical section designs. Minerals Engineering, 2014, 62, 74-84.	4.3	92
77	Prediction of wear and its effect on the multiphase flow and separation performance of dense medium cyclone. Minerals Engineering, 2014, 56, 91-101.	4.3	53
78	Numerical study of hot charge operation in ironmaking blast furnace. Minerals Engineering, 2014, 63, 45-56.	4.3	63
79	Computational study on the behaviours of supersonic jets and their impingement onto molten liquid free surface in BOF steelmaking. Canadian Metallurgical Quarterly, 2014, 53, 340-351.	1.2	30
80	Numerical study of horizontal pneumatic conveying: Effect of material properties. Powder Technology, 2014, 251, 15-24.	4.2	69
81	Numerical analysis of hydrocyclones with different vortex finder configurations. Minerals Engineering, 2014, 63, 125-138.	4.3	83
82	Pump and Pumping System. Advances in Mechanical Engineering, 2014, 6, 827456.	1.6	0
83	Application of periodic boundary conditions to CFD-DEM simulation of gas–solid flow in pneumatic conveying. Chemical Engineering Science, 2013, 93, 214-228.	3.8	78
84	Computational Study of the Multiphase Flow and Performance of Hydrocyclones: Effects of Cyclone Size and Spigot Diameter. Industrial & Engineering Chemistry Research, 2013, 52, 16019-16031.	3.7	61
85	Discrete particle simulation of jet-induced cratering of a granular bed. Powder Technology, 2013, 239, 319-336.	4.2	42
86	Numerical study of the influence of particle friction on horizontal pneumatic conveying. , 2013, , .		2
87	Numerical study of jet-induced cratering of a granular bed: Effect of gravity. , 2013, , .		0
88	Numerical study of vertical pneumatic conveying: Effect of friction coefficient. , 2013, , .		2
89	Particle scale modelling of the multiphase flow in a dense medium cyclone: Effect of fluctuation of solids flowrate. Minerals Engineering, 2012, 33, 34-45.	4.3	39
90	Gas–Solid Flow and Energy Dissipation in Inclined Pneumatic Conveying. Industrial & Engineering Chemistry Research, 2012, 51, 14289-14302.	3.7	53

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91	Numerical study of liquid–gas–solid flow in classifying hydrocyclones: Effect of feed solids concentration. Minerals Engineering, 2012, 31, 17-31.	4.3	112
92	Micromechanic modeling and analysis of the flow regimes in horizontal pneumatic conveying. AICHE Journal, 2011, 57, 2708-2725.	3.6	68
93	Numerical simulation of the in-line pressure jig unit in coal preparation. Minerals Engineering, 2010, 23, 301-312.	4.3	22
94	Discrete particle simulation of particle–fluid flow: model formulations and their applicability. Journal of Fluid Mechanics, 2010, 661, 482-510.	3.4	605
95	Flow Regimes in Vertical Pneumatic Conveying. , 2009, , .		2
96	Computational Study of Flow Regimes in Vertical Pneumatic Conveying. Industrial & Engineering Chemistry Research, 2009, 48, 6846-6858.	3.7	72
97	A new point-locating algorithm under three-dimensional hybrid meshes. International Journal of Multiphase Flow, 2008, 34, 1023-1030.	3.4	33
98	Computational Investigation of Horizontal Slug Flow in Pneumatic Conveying. Industrial & Engineering Chemistry Research, 2008, 47, 470-480.	3.7	109
99	Dense <scp>nonâ€Newtonian</scp> suspension flow: Effect of solids properties and pipe size. AICHE Journal, 0, , .	3.6	3