Huilin Lu

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160 papers	4,371 citations	31 h-index	61 g-index
168 ext. papers	4,782 ext. citations	5.1 avg, IF	5.39 L-index

#	Paper	IF	Citations
160	Heat transfer and flow behaviour of aqueous suspensions of TiO2 nanoparticles (nanofluids) flowing upward through a vertical pipe. *International Journal of Heat and Mass Transfer*, **2007**, 50, 2272-2281	4.9	707
159	Hydrodynamics of binary fluidization in a riser: CFD simulation using two granular temperatures. *Chemical Engineering Science*, **2003**, 58, 3777-3792	4.4	266
158	Numerical investigation into the convective heat transfer of TiO2 nanofluids flowing through a straight tube under the laminar flow conditions. *Applied Thermal Engineering*, **2009**, 29, 1965-1972	5.8	199
157	Hydrodynamic simulation of gas–solid flow in a riser using kinetic theory of granular flow. *Chemical Engineering Journal*, **2003**, 95, 1-13	14.7	187
156	Size segregation of binary mixture of solids in bubbling fluidized beds. *Powder Technology*, **2003**, 134, 86-97	5.2	143
155	Computer simulations of gas–solid flow in spouted beds using kinetic–frictional stress model of granular flow. *Chemical Engineering Science*, **2004**, 59, 865-878	4.4	141
154	Equation of state and radial distribution functions of FCC particles in a CFB. *AICHE Journal*, **1998**, 44, 279-293	3.6	125
153	Hydrodynamic modelling of binary mixture in a gas bubbling fluidized bed using the kinetic theory of granular flow. *Chemical Engineering Science*, **2003**, 58, 1197-1205	4.4	117
152	Investigation of mixing/segregation of mixture particles in gas–solid fluidized beds. *Chemical Engineering Science*, **2007**, 62, 301-317	4.4	98
151	Collisional viscosity of FCC particles in a CFB. *AICHE Journal*, **1996**, 42, 2503-2510	3.6	92
150	CFD studies of dual circulating fluidized bed reactors for chemical looping combustion processes. *Chemical Engineering Journal*, **2014**, 236, 121-130	14.7	86
149	Kinetic theory of fluidized binary granular mixtures. *Physical Review E*, **2001**, 64, 061301	2.4	74
148	A coal combustion model for circulating fluidized bed boilers. *Fuel*, **2000**, 79, 165-172	7.1	72
147	Hydrodynamics of gas–solid flow around immersed tubes in bubbling fluidized beds. *Powder Technology*, **2004**, 145, 88-105	5.2	58
146	Numerical simulations of flow behavior of gas and particles in spouted beds using frictional-kinetic stresses model. *Powder Technology*, **2009**, 196, 184-193	5.2	56
145	Simulation and experiment of segregating/mixing of rice husk–sand mixture in a bubbling fluidized bed. *Fuel*, **2005**, 84, 1739-1748	7.1	55
144	Prediction of particle motion in a two-dimensional bubbling fluidized bed using discrete hard-sphere model. *Chemical Engineering Science*, **2005**, 60, 3217-3231	4.4	54

143	Modeling of cluster structure-dependent drag with Eulerian approach for circulating fluidized beds. *Powder Technology*, **2011**, 208, 98-110	5.2	50
142	Numerical simulation of particle motion in vibrated fluidized beds. *Powder Technology*, **2010**, 197, 25-35	5.2	47
141	Numerical study of particle cluster flow in risers with cluster-based approach. *Chemical Engineering Science*, **2005**, 60, 6757-6767	4.4	47
140	Kinetic theory of fluidized binary granular mixtures with unequal granular temperature. *Physica A: Statistical Mechanics and Its Applications*, **2000**, 284, 265-276	3.3	47
139	Hydrodynamic Simulations of Gas□olid Flow in a Riser. *Industrial & Engineering Chemistry Research*, **2003**, 42, 2390-2398	3.9	46
138	Fluid dynamic simulation in a chemical looping combustion with two interconnected fluidized beds. *Fuel Processing Technology*, **2011**, 92, 385-393	7.2	41
137	Numerical prediction of flow behavior of cuttings carried by Herschel-Bulkley fluids in horizontal well using kinetic theory of granular flow. *Powder Technology*, **2018**, 329, 386-398	5.2	38
136	Flow behavior of clusters in a riser simulated by direct simulation Monte Carlo method. *Chemical Engineering Journal*, **2005**, 106, 197-211	14.7	38
135	Multiphase CFD Simulation of Solid Propellant Combustion in a Small Gun Chamber. *International Journal of Chemical Engineering*, **2014**, 2014, 1-10	2.2	34
134	Hydrodynamics of gas□olid risers using cluster structure-dependent drag model. *Powder Technology*, **2014**, 254, 214-227	5.2	33
133	A cluster structure-dependent drag coefficient model applied to risers. *Powder Technology*, **2012**, 225, 176-189	5.2	33
132	Numerical predictions of flow behavior and cluster size of particles in riser with particle rotation model and cluster-based approach. *Chemical Engineering Science*, **2008**, 63, 4116-4125	4.4	33
131	Numerical simulation of flow behavior of particles and clusters in riser using two granular temperatures. *Powder Technology*, **2008**, 182, 282-293	5.2	33
130	Numerical prediction of combustion of carbon particle clusters in a circulating fluidized bed riser. *Chemical Engineering Journal*, **2006**, 118, 1-10	14.7	33
129	Study on forced convective heat transfer of non-newtonian nanofluids. *Journal of Thermal Science*, **2009**, 18, 20-26	1.9	30
128	Simulation of effect of catalyst particle cluster on dry methane reforming in circulating fluidized beds. *Chemical Engineering Journal*, **2007**, 131, 123-134	14.7	28
127	Numerical Simulations of Hydrodynamic Behaviour in Spouted Beds. *Chemical Engineering Research and Design*, **2001**, 79, 593-599	5.5	27
126	Hydrodynamic simulation of fuel-reactor in chemical looping combustion process. *Chemical Engineering Research and Design*, **2011**, 89, 1501-1510	5.5	26

125	Numerical simulation of particle motion in a gradient magnetically assisted fluidized bed. *Powder Technology*, **2010**, 203, 555-564	5.2	26
124	Numerical study on the cluster flow behavior in the riser of circulating fluidized beds. *Chemical Engineering Journal*, **2009**, 150, 374-384	14.7	25
123	Numerical simulation of bubble and particles motions in a bubbling fluidized bed using direct simulation Monte-Carlo method. *Powder Technology*, **2006**, 169, 159-171	5.2	25
122	DSMC prediction of granular temperatures of clusters and dispersed particles in a riser. *Powder Technology*, **2009**, 192, 225-233	5.2	24
121	Effect of orbital motion of drill pipe on the transport of non-Newtonian fluid-cuttings mixture in horizontal drilling annulus. *Journal of Petroleum Science and Engineering*, **2019**, 174, 201-215	4.4	24
120	Numerical simulations of gas□olid flow in tapered risers. *Powder Technology*, **2006**, 169, 89-98	5.2	23
119	Simulation of the Chemical Looping Reforming Process in the Fuel Reactor with a Bubble-Based Energy Minimization Multiscale Model. *Energy & Fuels*, **2013**, 27, 5008-5015	4.1	22
118	Dimension measurements of hydrodynamic attractors in circulating fluidized beds. *Powder Technology*, **1997**, 90, 179-185	5.2	22
117	Modeling of Chemical Looping Combustion of Methane Using a Ni-Based Oxygen Carrier. *Energy & Fuels*, **2014**, 28, 3420-3429	4.1	21
116	Simulation of cohesive particle motion in a sound-assisted fluidized bed. *Powder Technology*, **2011**, 207, 65-77	5.2	21
115	Numerical simulation of flow behavior of agglomerates in gas□ohesive particles fluidized beds using agglomerates-based approach. *Chemical Engineering Science*, **2010**, 65, 1462-1473	4.4	21
114	Numerical investigation of solid circulation flux in an internally circulating fluidized bed with different gas distributor designs. *Powder Technology*, **2016**, 301, 1103-1111	5.2	20
113	Predictions of coal combustion and desulfurization in a CFB riser reactor by kinetic theory of granular mixture with unequal granular temperature. *Fuel Processing Technology*, **2014**, 126, 163-172	7.2	20
112	Prediction on immersed tubes erosion using two-fluid model in a bubbling fluidized bed. *Chemical Engineering Science*, **2009**, 64, 3072-3082	4.4	20
111	Multi-scale simulation of chemical looping combustion in dual circulating fluidized bed. *Applied Energy*, **2015**, 155, 719-727	10.7	19
110	Numerical simulation of different flow regimes in a horizontal rotating ellipsoidal drum. *Powder Technology*, **2016**, 291, 86-96	5.2	19
109	CFD studies on mass transfer of gas-to-particle cluster in a circulating fluidized bed. *Computers and Chemical Engineering*, **2009**, 33, 393-401	4	19
108	Numerical study of gas□olid flow in a precalciner using kinetic theory of granular flow. *Chemical Engineering Journal*, **2004**, 102, 151-160	14.7	19

107	Experimental and numerical investigation on heat transfer of Therminol heat transfer fluid in an internally four-head ribbed tube. *International Journal of Thermal Sciences*, **2017**, 116, 32-44	4.1	18
106	Investigation of cuttings transport in directional and horizontal drilling wellbores injected with pulsed drilling fluid using CFD approach. *Tunnelling and Underground Space Technology*, **2019**, 90, 183-193	5.7	18
105	CFD simulations of bubbling beds of rough spheres. *Chemical Engineering Science*, **2008**, 63, 5653-5662	4.4	18
104	A second-order moment method of dense gas–solid flow for bubbling fluidization. *Chemical Engineering Science*, **2009**, 64, 5013-5027	4.4	17
103	Flow of gas and particles in a bubbling fluidized bed with a filtered two-fluid model. *Chemical Engineering Science*, **2010**, 65, 2664-2679	4.4	17
102	Numerical Predication of Cracking Reaction of Particle Clusters in Fluid Catalytic Cracking Riser Reactors. *Chinese Journal of Chemical Engineering*, **2008**, 16, 670-678	3.2	17
101	Experimental and numerical studies of heat transfer and friction factor of therminol liquid phase heat transfer fluid in a ribbed tube. *Applied Thermal Engineering*, **2016**, 95, 165-177	5.8	16
100	Numerical study of coal particle cluster combustion under quiescent conditions. *Chemical Engineering Science*, **2007**, 62, 4336-4347	4.4	16
99	Eulerian simulations of bubble behaviour in a two-dimensional gas–solid bubbling fluidized bed. *International Journal of Energy Research*, **2002**, 26, 1285-1293	4.5	16
98	A coupled Eulerian fluid phase-Eulerian solids phase-Lagrangian discrete particles hybrid model applied to gas-solids bubbling fluidized beds. *Powder Technology*, **2017**, 315, 385-397	5.2	15
97	A bubbling fluidization model using kinetic theory of rough spheres. *AICHE Journal*, **2012**, 58, 440-455	3.6	15
96	Computational Fluid Dynamic Simulation Based Cluster Structures-Dependent Drag Coefficient Model in Dual Circulating Fluidized Beds of Chemical Looping Combustion. *Industrial & Engineering Chemistry Research*, **2012**, 51, 1396-1412	3.9	15
95	A second-order moment method applied to gas–solid risers. *AICHE Journal*, **2012**, 58, 3653-3675	3.6	15
94	Numerical analysis of interphase heat and mass transfer of cluster in a circulating fluidized bed. *Powder Technology*, **2009**, 189, 87-96	5.2	15
93	Numerical simulation of gas-particle flow with a second-order moment method in bubbling fluidized beds. *Powder Technology*, **2010**, 199, 213-225	5.2	15
92	Numerical analysis of particle clustering effects on desulphurization and NO emission in a circulating fluidized bed combustor. *Fuel*, **2008**, 87, 870-877	7.1	15
91	Simulation of flow behavior of particles by cluster structure-dependent drag coefficient model for chemical looping combustion process: Air reactor modeling. *Fuel Processing Technology*, **2012**, 104, 219-233	7.2	14
90	Assessment of CO2 capture using potassium-based sorbents in circulating fluidized bed reactor by multiscale modeling. *Fuel*, **2016**, 164, 66-72	7.1	13

89	Multi-scale heat transfer in fluidized bed reactors by Eulerian CFD modeling. *Fuel*, **2015**, 139, 646-651	7.1	13
88	Numerical Simulation of Hydrogen Production via Chemical Looping Reforming in Interconnected Fluidized Bed Reactor. *Industrial & Engineering Chemistry Research*, **2014**, 53, 4182-4191	3.9	13
87	Analysis of SO2 and NOx Emissions Using Two-Fluid Method Coupled with Eddy Dissipation Concept Reaction Submodel in Circulating Fluidized Bed Combustors. *Energy & Fuels*, **2014**, 28, 2227-2235	4.1	13
86	Modeling of Bubble-Structure-Dependent Drag for Bubbling Fluidized Beds. *Industrial & Engineering Chemistry Research*, **2014**, 53, 15776-15785	3.9	13
85	Hydrodynamic modeling of particle rotation in bubbling gas-fluidized beds. *International Journal of Multiphase Flow*, **2012**, 39, 159-178	3.6	13
84	Numerical Simulation of Particle Segregation in Vibration Fluidized Beds. *Chemical Engineering and Technology*, **2014**, 37, 2109-2115	2	13
83	Prediction of flow behavior of particles in a tapered bubbling fluidized bed using a second-order moment-frictional stresses model. *Chemical Engineering Science*, **2012**, 84, 170-181	4.4	13
82	Simulations and experiments of laminar heat transfer for Therminol heat transfer fluids in a rifled tube. *Applied Thermal Engineering*, **2016**, 102, 861-872	5.8	13
81	Simulated configurational temperature of particles and a model of constitutive relations of rapid-intermediate-dense granular flow based on generalized granular temperature. *International Journal of Multiphase Flow*, **2015**, 77, 1-18	3.6	12
80	CFD simulation of gas–solid flow with a cluster structure-dependent drag coefficient model in circulating fluidized beds. *Applied Mathematical Modelling*, **2013**, 37, 8179-8202	4.5	12
79	Discrete particle simulations for flow of binary particle mixture in a bubbling fluidized bed with a transport energy weighted averaging scheme. *Chemical Engineering Science*, **2009**, 64, 1707-1718	4.4	12
78	Simulations of dynamic properties of particles in horizontal rotating ellipsoidal drums. *Applied Mathematical Modelling*, **2016**, 40, 7708-7723	4.5	12
77	Effects of flow behavior index and consistency coefficient on hydrodynamics of power-law fluids and particles in fluidized beds. *Powder Technology*, **2020**, 366, 249-260	5.2	11
76	Numerical modeling of a bubbling fluidized bed coal gasifier by kinetic theory of rough spheres. *Fuel*, **2014**, 130, 197-202	7.1	11
75	Modeling of reactive gas–solid flows in riser reactors using a multi-scale chemical reaction model. *Chemical Engineering Science*, **2014**, 116, 773-780	4.4	11
74	Prediction of flow behavior of micro-particles in risers in the presence of van der Waals forces. *Chemical Engineering Journal*, **2007**, 132, 137-149	14.7	11
73	Chaotic behavior of local temperature fluctuations in a laboratory-scale circulating fluidized bed. *Powder Technology*, **2002**, 123, 59-68	5.2	11
72	Cluster structure-dependent drag model for liquid–solid circulating fluidized bed. *Advanced Powder Technology*, **2015**, 26, 14-23	4.6	10

71	A comprehensive stress model for gas-particle flows in dense and dilute regimes. *Chemical Engineering Science*, **2020**, 226, 115833	4.4	10
70	A dynamic cluster structure-dependent drag coefficient model applied to gas-solid risers. *Powder Technology*, **2018**, 325, 381-395	5.2	10
69	Simulated second-order moments of clusters and dispersed particles in riser. *Chemical Engineering Science*, **2013**, 101, 800-812	4.4	10
68	Computations of Fluid Dynamics of a 50 MWe Circulating Fluidized Bed Combustor. *Industrial & Engineering Chemistry Research*, **2010**, 49, 5132-5140	3.9	10
67	Numerical computation of a circulating fluidized bed combustor. *International Journal of Energy Research*, **1998**, 22, 1351-1364	4.5	10
66	Simulation of effect of catalytic particle clustering on methane steam reforming in a circulating fluidized bed reformer. *Chemical Engineering Journal*, **2008**, 139, 136-146	14.7	10
65	Prediction of configurational and granular temperatures of particles using DEM in reciprocating grates. *Powder Technology*, **2015**, 269, 495-504	5.2	9
64	Prediction of Radial Distribution Function of Particles in a Gas−Solid Fluidized Bed Using Discrete Hard-Sphere Model. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1343-1352	3.9	9
63	Insights in Steam Reforming of Glycerol in a Fluidized Bed by Computational Fluid Dynamics Modeling. *Energy & Fuels*, **2016**, 30, 8335-8342	4.1	8
62	Simulations of configurational and granular temperatures of particles using DEM in roller conveyor. *Powder Technology*, **2014**, 268, 436-445	5.2	8
61	Computational fluid dynamics of riser using kinetic theory of rough spheres. *Powder Technology*, **2012**, 228, 56-68	5.2	8
60	Simulation of motion of particles in reciprocating grates using DEM. *Powder Technology*, **2013**, 246, 218-228	5.2	8
59	Numerical Simulation of Fluid Dynamics of a Riser: Influence of Particle Rotation. *Industrial & Engineering Chemistry Research*, **2010**, 49, 3585-3596	3.9	8
58	Simulated pulsed flow of gas and particles in a horizontal oppose-pulsed gas jets of bubbling fluidized bed. *Advanced Powder Technology*, **2018**, 29, 3507-3519	4.6	8
57	Extension of cluster-structure dependent drag model to simulation of riser with Geldart B particles. *Advanced Powder Technology*, **2016**, 27, 57-63	4.6	7
56	Investigation of interstitial fluid effect on the hydrodynamics of granular in liquid-solid fluidized beds with CFD-DEM. *Powder Technology*, **2017**, 322, 353-368	5.2	7
55	Numerical Simulations of Flow Behaviour of Agglomerates of Nano-Size Particles in Bubbling and Spouted Beds with an Agglomerate-Based Approach. *Food and Bioproducts Processing*, **2007**, 85, 231-240	4.9	7
54	Thermo-hydraulic performance of liquid phase heat transfer fluid (Therminol) in a ribbed tube. *Experimental Thermal and Fluid Science*, **2016**, 72, 149-160	3	6

53	Evaluation of a bubble-structure dependent drag model for the simulation of bubbling fluidization with Geldart A particles. *Powder Technology*, **2016**, 289, 44-51	5.2	6
52	Numerical study of melted PCM inside a horizontal annulus with threads in a three-dimensional model. *RSC Advances*, **2015**, 5, 12178-12185	3.7	6
51	Simulation of particles and gas flow behavior in a riser using a filtered two-fluid model. *Chemical Engineering Science*, **2011**, 66, 593-603	4.4	6
50	Simulations of flow behavior of fuel particles in a conceptual helium-cooled spout fluidized bed nuclear reactor. *Nuclear Engineering and Design*, **2009**, 239, 106-115	1.8	6
49	Numerical Modeling of Gas Tubular Distributors in Bubbling Fluidized-Bed Incinerators. *Industrial & Engineering Chemistry Research*, **2006**, 45, 6818-6827	3.9	6
48	Impact velocity-dependent restitution coefficient using a coupled Eulerian fluid phase-Eulerian solid phase-Lagrangian discrete particles phase model in gas-monodisperse particles internally circulating fluidized bed. *International Journal of Multiphase Flow*, **2018**, 105, 142-158	3.6	5
47	Determination of Pressure Profile During Closed-Vessel Test Through Computational Fluid Dynamics Simulation. *Journal of Thermal Science and Engineering Applications*, **2016**, 8,	1.9	5
46	CFD simulation of bubbling fluidized beds using kinetic theory of rough sphere. *Chemical Engineering Science*, **2012**, 71, 185-201	4.4	5
45	Simulation of Performance of Cracking Reactions of Particle Clusters in FCC Risers. *Industrial & Engineering Chemistry Research*, **2008**, 47, 4632-4640	3.9	5
44	A numerical study on the gas fluidisation of secondary agglomerates of nanoparticles. *Progress in Natural Science: Materials International*, **2005**, 15, 111-116	3.6	5
43	Computations of a Circulating Fluidized-Bed Boiler with Wide Particle Size Distributions. *Industrial & Engineering Chemistry Research*, **2000**, 39, 3212-3220	3.9	5
42	CFD-DEM study of the effects of direct current electric field on gas-solid fluidization. *Powder Technology*, **2020**, 362, 416-427	5.2	5
41	Numerical simulation of flow behavior of topped gas-particles jet in a bubbling fluidized bed. *Powder Technology*, **2019**, 348, 51-64	5.2	4
40	Computational fluid dynamics analysis of the circulation characteristics of a binary mixture of particles in an internally circulating fluidized bed. *Applied Mathematical Modelling*, **2019**, 72, 1-16	4.5	4
39	Numerical prediction of flow hydrodynamics of wet molecular sieve particles in a liquid-fluidized bed. *Particuology*, **2016**, 25, 42-50	2.8	4
38	Thermo-hydraulic performance of Therminol liquid phase heat transfer fluid in a ribbed tube of solar heater. *Renewable Energy*, **2017**, 101, 919-929	8.1	4
37	Comparative analysis of heterogeneous gas-solid flow using dynamic cluster structure-dependent drag model in risers. *International Journal of Multiphase Flow*, **2020**, 122, 103126	3.6	4
36	Modified MFIX code to simulate hydrodynamics of gas-solids bubbling fluidized beds: A model of coupled kinetic theory of granular flow and discrete element method. *Powder Technology*, **2019**, 357, 417-427	5.2	3

35	Multi-scale study of hydrodynamics in an interconnected fluidized bed for the chemical looping combustion process. *RSC Advances*, **2015**, 5, 53404-53411	3.7	3
34	Modeling of a Chemical Looping Combustion Process in Interconnected Fluidized Beds with a Cu-Based Oxygen Carrier. *Chemical Engineering and Technology*, **2013**, 36, 1503-1510	2	3
33	Numerical simulation of gas and particle flow in cyclone separators **2013**,		3
32	Numerical Simulation of Particle Flow Motion in a Two-Dimensional Modular Pebble-Bed Reactor with Discrete Element Method. *Science and Technology of Nuclear Installations*, **2013**, 2013, 1-12	0.6	3
31	Numerical Simulations of the Effect of Conical Dimension on the Hydrodynamic Behaviour in Spouted Beds. *Canadian Journal of Chemical Engineering*, **2008**, 82, 20-29	2.3	3
30	Hydrodynamic Modeling of Gas□Particle Flows in D□ Calciners. *Industrial & Engineering Chemistry Research*, **2005**, 44, 3033-3041	3.9	3
29	Investigation of Aggregation Kernel and Simulation of Cohesive Particle Flow. *Chemical Engineering and Technology*, **2016**, 39, 1858-1866	2	3
28	Computations of mixing/segregation of binary mixtures in supercritical water fluidized bed. *Chemical Engineering Science*, **2021**, 229, 116027	4.4	3
27	Numerical Simulations of Solid Circulation Characteristics in an Internally Circulating Elevated Fluidized Bed. *Chemical Engineering and Technology*, **2017**, 40, 769-777	2	2
26	Numerical simulations of gas-particle flow behavior created by low-level rotary-winged aircraft flight over particle bed. *Applied Mathematics and Mechanics (English Edition)*, **2019**, 40, 397-406	3.2	2
25	Interior Ballistics Two-Phase Reactive Flow Model Applied to Small Caliber Projectile-Gun System. *Propellants, Explosives, Pyrotechnics*, **2015**, 40, 720-728	1.7	2
24	Predicted configurational and translational granular temperatures of particles for low-velocity intruder impacting on granular bed using DEM. *Powder Technology*, **2016**, 297, 283-293	5.2	2
23	Numerical simulation of flow behavior of top-gas jet in a gas-particles bubbling fluidized bed. *Powder Technology*, **2018**, 338, 664-676	5.2	2
22	Heat transfer and friction factor of Therminol liquid phase heat transfer fluid in a ribbed tube. *Chinese Journal of Chemical Engineering*, **2017**, 25, 1343-1351	3.2	2
21	Modeling of coal combustion in a 25-MW FBC power plant. *Energy*, **1999**, 24, 199-208	7.9	2
20	The imaginary plane mothod of radiation heat transfer in the freeboard of atmospheric bubbling fluidized bed boiler. *Journal of Thermal Science*, **1993**, 2, 18-24	1.9	1
19	Computational simulations using a low density ratio-based kinetic theory of granular flow in subcritical water fluidized beds. *Advanced Powder Technology*, **2022**, 33, 103424	4.6	1
18	Analysis of SO Physisorption by Edge-Functionalized Nanoporous Carbons Using Grand Canonical Monte Carlo Methods and Density Functional Theory: Implications for SO Removal.. *ACS Omega*, **2021**, 6, 33735-33746	3.9	1

17	Entrainment of particles and gas induced by draft fan over the particles bed. *Advanced Powder Technology*, **2020**, 31, 198-210	4.6	1
16	Clusters intermittent simulations using dynamic cluster structure-dependent drag model in gas-particles risers. *Chemical Engineering Science*, **2020**, 221, 115643	4.4	1
15	Analysis of dissipative mechanisms of cluster heterogeneous structures in gas□olid riser. *Chemical Engineering Science*, **2021**, 246, 116878	4.4	1
14	Study of Flow Characteristics of Ultrafine CaCO3 Powders in a Spouted Bed. *Chemical Engineering and Technology*, **2017**, 40, 622-630	2	0
13	CFD study of binary mixture mixing/segregation of supercritical carbon dioxide fluidized bed. *Powder Technology*, **2022**, 397, 117029	5.2	0
12	Pulsation active method-based particle cluster regulation using dynamic cluster structure-dependent drag model in a fluidized bed riser. *Chemical Engineering Science*, **2022**, 249, 117370	4.4	0
11	Passive method-based clusters regulation of two-stage fluidized bed riser using dynamic cluster structure-dependent drag model. *Chemical Engineering Journal*, **2022**, 431, 134111	14.7	0
10	Two-Fluid Simulation of a Three-Dimensional Spout-Fluid Bed: Flow Structures, Regimes, and Insight into the Mechanism of Particle□Particle Momentum Transfer. *Industrial & Engineering Chemistry Research*, **2021**, 60, 7950-7965	3.9	0
9	Computational simulations of hydrodynamics of supercritical methanol fluid fluidized beds using a low density ratio-based kinetic theory of granular flow. *Journal of Supercritical Fluids*, **2022**, 186, 105598	4.2	0
8	Answer to □comment on two-dimensional discrete particle model by Berrouk and Wu□*Chemical Engineering Journal*, **2010**, 160, 812	14.7	
7	Computer simulations and measurements of radial solid flow distribution in a riser. *Journal of Thermal Science*, **1998**, 7, 71-77	1.9	
6	Modeling of air and particles flow with revolving rotor hovering over the particles layer. *Powder Technology*, **2020**, 376, 272-284	5.2	
5	Experimental Foundation **2021**, 89-119		
4	Homogeneous and Nonhomogeneous Interfacial Momentum Closure **2021**, 53-88		
3	Constitutive Equations with Kinetic Theory of Granular Flow **2021**, 11-51		
2	Cases for Numerical Simulations of Fluidized Bed Systems **2021**, 151-198		
1	IBM-LBM-DEM Study of Two-Particle Sedimentation: Drafting-Kissing-Tumbling and Effects of Particle Reynolds Number and Initial Positions of Particles. *Energies*, **2022**, 15, 3297	3.1	