

Huilin Lu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	CFD study of binary mixture mixing/segregation of supercritical carbon dioxide fluidized bed. <i>Powder Technology</i> , 2022 , 397, 117029	5.2	0
159	Computational simulations using a low density ratio-based kinetic theory of granular flow in subcritical water fluidized beds. <i>Advanced Powder Technology</i> , 2022 , 33, 103424	4.6	1
158	Pulsation active method-based particle cluster regulation using dynamic cluster structure-dependent drag model in a fluidized bed riser. <i>Chemical Engineering Science</i> , 2022 , 249, 117370	4.4	0
157	Passive method-based clusters regulation of two-stage fluidized bed riser using dynamic cluster structure-dependent drag model. <i>Chemical Engineering Journal</i> , 2022 , 431, 134111	14.7	0
156	Computational simulations of hydrodynamics of supercritical methanol fluid fluidized beds using a low density ratio-based kinetic theory of granular flow. <i>Journal of Supercritical Fluids</i> , 2022 , 186, 105598	4.2	0
155	IBM-LBM-DEM Study of Two-Particle Sedimentation: Drafting-Kissing-Tumbling and Effects of Particle Reynolds Number and Initial Positions of Particles. <i>Energies</i> , 2022 , 15, 3297	3.1	
154	Analysis of SO Physisorption by Edge-Functionalized Nanoporous Carbons Using Grand Canonical Monte Carlo Methods and Density Functional Theory: Implications for SO Removal.. <i>ACS Omega</i> , 2021 , 6, 33735-33746	3.9	1
153	Two-Fluid Simulation of a Three-Dimensional Spout-Fluid Bed: Flow Structures, Regimes, and Insight into the Mechanism of Particle Particle Momentum Transfer. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 7950-7965	3.9	0
152	Computations of mixing/segregation of binary mixtures in supercritical water fluidized bed. <i>Chemical Engineering Science</i> , 2021 , 229, 116027	4.4	3
151	Experimental Foundation 2021 , 89-119		
150	Homogeneous and Nonhomogeneous Interfacial Momentum Closure 2021 , 53-88		
149	Constitutive Equations with Kinetic Theory of Granular Flow 2021 , 11-51		
148	Analysis of dissipative mechanisms of cluster heterogeneous structures in gas-solid riser. <i>Chemical Engineering Science</i> , 2021 , 246, 116878	4.4	1
147	Cases for Numerical Simulations of Fluidized Bed Systems 2021 , 151-198		
146	A comprehensive stress model for gas-particle flows in dense and dilute regimes. <i>Chemical Engineering Science</i> , 2020 , 226, 115833	4.4	10
145	Effects of flow behavior index and consistency coefficient on hydrodynamics of power-law fluids and particles in fluidized beds. <i>Powder Technology</i> , 2020 , 366, 249-260	5.2	11
144	CFD-DEM study of the effects of direct current electric field on gas-solid fluidization. <i>Powder Technology</i> , 2020 , 362, 416-427	5.2	5

143	Entrainment of particles and gas induced by draft fan over the particles bed. <i>Advanced Powder Technology</i> , 2020 , 31, 198-210	4.6	1
142	Modeling of air and particles flow with revolving rotor hovering over the particles layer. <i>Powder Technology</i> , 2020 , 376, 272-284	5.2	
141	Comparative analysis of heterogeneous gas-solid flow using dynamic cluster structure-dependent drag model in risers. <i>International Journal of Multiphase Flow</i> , 2020 , 122, 103126	3.6	4
140	Clusters intermittent simulations using dynamic cluster structure-dependent drag model in gas-particles risers. <i>Chemical Engineering Science</i> , 2020 , 221, 115643	4.4	1
139	Modified MFI code to simulate hydrodynamics of gas-solids bubbling fluidized beds: A model of coupled kinetic theory of granular flow and discrete element method. <i>Powder Technology</i> , 2019 , 357, 417-427	5.2	3
138	Numerical simulations of gas-particle flow behavior created by low-level rotary-winged aircraft flight over particle bed. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019 , 40, 397-406	3.2	2
137	Investigation of cuttings transport in directional and horizontal drilling wellbores injected with pulsed drilling fluid using CFD approach. <i>Tunnelling and Underground Space Technology</i> , 2019 , 90, 183-193	5.7	18
136	Numerical simulation of flow behavior of topped gas-particles jet in a bubbling fluidized bed. <i>Powder Technology</i> , 2019 , 348, 51-64	5.2	4
135	Computational fluid dynamics analysis of the circulation characteristics of a binary mixture of particles in an internally circulating fluidized bed. <i>Applied Mathematical Modelling</i> , 2019 , 72, 1-16	4.5	4
134	Effect of orbital motion of drill pipe on the transport of non-Newtonian fluid-cuttings mixture in horizontal drilling annulus. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 174, 201-215	4.4	24
133	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. <i>International Journal of Multiphase Flow</i> , 2018 , 105, 142-158	3.6	5
132	Numerical prediction of flow behavior of cuttings carried by Herschel-Bulkley fluids in horizontal well using kinetic theory of granular flow. <i>Powder Technology</i> , 2018 , 329, 386-398	5.2	38
131	A dynamic cluster structure-dependent drag coefficient model applied to gas-solid risers. <i>Powder Technology</i> , 2018 , 325, 381-395	5.2	10
130	Numerical simulation of flow behavior of top-gas jet in a gas-particles bubbling fluidized bed. <i>Powder Technology</i> , 2018 , 338, 664-676	5.2	2
129	Simulated pulsed flow of gas and particles in a horizontal oppose-pulsed gas jets of bubbling fluidized bed. <i>Advanced Powder Technology</i> , 2018 , 29, 3507-3519	4.6	8
128	Experimental and numerical investigation on heat transfer of Therminol heat transfer fluid in an internally four-head ribbed tube. <i>International Journal of Thermal Sciences</i> , 2017 , 116, 32-44	4.1	18
127	Numerical Simulations of Solid Circulation Characteristics in an Internally Circulating Elevated Fluidized Bed. <i>Chemical Engineering and Technology</i> , 2017 , 40, 769-777	2	2
126	A coupled Eulerian fluid phase-Eulerian solids phase-Lagrangian discrete particles hybrid model applied to gas-solids bubbling fluidized beds. <i>Powder Technology</i> , 2017 , 315, 385-397	5.2	15

125	Study of Flow Characteristics of Ultrafine CaCO ₃ Powders in a Spouted Bed. <i>Chemical Engineering and Technology</i> , 2017 , 40, 622-630	2	0
124	Investigation of interstitial fluid effect on the hydrodynamics of granular in liquid-solid fluidized beds with CFD-DEM. <i>Powder Technology</i> , 2017 , 322, 353-368	5.2	7
123	Heat transfer and friction factor of Therminol liquid phase heat transfer fluid in a ribbed tube. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 1343-1351	3.2	2
122	Thermo-hydraulic performance of Therminol liquid phase heat transfer fluid in a ribbed tube of solar heater. <i>Renewable Energy</i> , 2017 , 101, 919-929	8.1	4
121	Assessment of CO ₂ capture using potassium-based sorbents in circulating fluidized bed reactor by multiscale modeling. <i>Fuel</i> , 2016 , 164, 66-72	7.1	13
120	Insights in Steam Reforming of Glycerol in a Fluidized Bed by Computational Fluid Dynamics Modeling. <i>Energy & Fuels</i> , 2016 , 30, 8335-8342	4.1	8
119	Numerical investigation of solid circulation flux in an internally circulating fluidized bed with different gas distributor designs. <i>Powder Technology</i> , 2016 , 301, 1103-1111	5.2	20
118	Predicted configurational and translational granular temperatures of particles for low-velocity intruder impacting on granular bed using DEM. <i>Powder Technology</i> , 2016 , 297, 283-293	5.2	2
117	Determination of Pressure Profile During Closed-Vessel Test Through Computational Fluid Dynamics Simulation. <i>Journal of Thermal Science and Engineering Applications</i> , 2016 , 8,	1.9	5
116	Experimental and numerical studies of heat transfer and friction factor of therminol liquid phase heat transfer fluid in a ribbed tube. <i>Applied Thermal Engineering</i> , 2016 , 95, 165-177	5.8	16
115	Thermo-hydraulic performance of liquid phase heat transfer fluid (Therminol) in a ribbed tube. <i>Experimental Thermal and Fluid Science</i> , 2016 , 72, 149-160	3	6
114	Numerical simulation of different flow regimes in a horizontal rotating ellipsoidal drum. <i>Powder Technology</i> , 2016 , 291, 86-96	5.2	19
113	Numerical prediction of flow hydrodynamics of wet molecular sieve particles in a liquid-fluidized bed. <i>Particuology</i> , 2016 , 25, 42-50	2.8	4
112	Extension of cluster-structure dependent drag model to simulation of riser with Geldart B particles. <i>Advanced Powder Technology</i> , 2016 , 27, 57-63	4.6	7
111	Evaluation of a bubble-structure dependent drag model for the simulation of bubbling fluidization with Geldart A particles. <i>Powder Technology</i> , 2016 , 289, 44-51	5.2	6
110	Investigation of Aggregation Kernel and Simulation of Cohesive Particle Flow. <i>Chemical Engineering and Technology</i> , 2016 , 39, 1858-1866	2	3
109	Simulations and experiments of laminar heat transfer for Therminol heat transfer fluids in a rifled tube. <i>Applied Thermal Engineering</i> , 2016 , 102, 861-872	5.8	13
108	Simulations of dynamic properties of particles in horizontal rotating ellipsoidal drums. <i>Applied Mathematical Modelling</i> , 2016 , 40, 7708-7723	4.5	12

107	Multi-scale study of hydrodynamics in an interconnected fluidized bed for the chemical looping combustion process. <i>RSC Advances</i> , 2015 , 5, 53404-53411	3.7	3
106	Multi-scale simulation of chemical looping combustion in dual circulating fluidized bed. <i>Applied Energy</i> , 2015 , 155, 719-727	10.7	19
105	Simulated configurational temperature of particles and a model of constitutive relations of rapid-intermediate-dense granular flow based on generalized granular temperature. <i>International Journal of Multiphase Flow</i> , 2015 , 77, 1-18	3.6	12
104	Interior Ballistics Two-Phase Reactive Flow Model Applied to Small Caliber Projectile-Gun System. <i>Propellants, Explosives, Pyrotechnics</i> , 2015 , 40, 720-728	1.7	2
103	Cluster structure-dependent drag model for liquid-solid circulating fluidized bed. <i>Advanced Powder Technology</i> , 2015 , 26, 14-23	4.6	10
102	Prediction of configurational and granular temperatures of particles using DEM in reciprocating grates. <i>Powder Technology</i> , 2015 , 269, 495-504	5.2	9
101	Multi-scale heat transfer in fluidized bed reactors by Eulerian CFD modeling. <i>Fuel</i> , 2015 , 139, 646-651	7.1	13
100	Numerical study of melted PCM inside a horizontal annulus with threads in a three-dimensional model. <i>RSC Advances</i> , 2015 , 5, 12178-12185	3.7	6
99	CFD studies of dual circulating fluidized bed reactors for chemical looping combustion processes. <i>Chemical Engineering Journal</i> , 2014 , 236, 121-130	14.7	86
98	Numerical modeling of a bubbling fluidized bed coal gasifier by kinetic theory of rough spheres. <i>Fuel</i> , 2014 , 130, 197-202	7.1	11
97	Modeling of Chemical Looping Combustion of Methane Using a Ni-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2014 , 28, 3420-3429	4.1	21
96	Numerical Simulation of Hydrogen Production via Chemical Looping Reforming in Interconnected Fluidized Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4182-4191	3.9	13
95	Analysis of SO ₂ and NO _x Emissions Using Two-Fluid Method Coupled with Eddy Dissipation Concept Reaction Submodel in Circulating Fluidized Bed Combustors. <i>Energy & Fuels</i> , 2014 , 28, 2227-2235	4.1	13
94	Modeling of Bubble-Structure-Dependent Drag for Bubbling Fluidized Beds. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15776-15785	3.9	13
93	Hydrodynamics of gas-solid risers using cluster structure-dependent drag model. <i>Powder Technology</i> , 2014 , 254, 214-227	5.2	33
92	Modeling of reactive gas-solid flows in riser reactors using a multi-scale chemical reaction model. <i>Chemical Engineering Science</i> , 2014 , 116, 773-780	4.4	11
91	Predictions of coal combustion and desulfurization in a CFB riser reactor by kinetic theory of granular mixture with unequal granular temperature. <i>Fuel Processing Technology</i> , 2014 , 126, 163-172	7.2	20
90	Simulations of configurational and granular temperatures of particles using DEM in roller conveyor. <i>Powder Technology</i> , 2014 , 268, 436-445	5.2	8

89	Multiphase CFD Simulation of Solid Propellant Combustion in a Small Gun Chamber. <i>International Journal of Chemical Engineering</i> , 2014 , 2014, 1-10	2.2	34
88	Numerical Simulation of Particle Segregation in Vibration Fluidized Beds. <i>Chemical Engineering and Technology</i> , 2014 , 37, 2109-2115	2	13
87	CFD simulation of gas-solid flow with a cluster structure-dependent drag coefficient model in circulating fluidized beds. <i>Applied Mathematical Modelling</i> , 2013 , 37, 8179-8202	4.5	12
86	Modeling of a Chemical Looping Combustion Process in Interconnected Fluidized Beds with a Cu-Based Oxygen Carrier. <i>Chemical Engineering and Technology</i> , 2013 , 36, 1503-1510	2	3
85	Simulation of motion of particles in reciprocating grates using DEM. <i>Powder Technology</i> , 2013 , 246, 218-228	3.28	8
84	Simulated second-order moments of clusters and dispersed particles in riser. <i>Chemical Engineering Science</i> , 2013 , 101, 800-812	4.4	10
83	Simulation of the Chemical Looping Reforming Process in the Fuel Reactor with a Bubble-Based Energy Minimization Multiscale Model. <i>Energy & Fuels</i> , 2013 , 27, 5008-5015	4.1	22
82	Numerical simulation of gas and particle flow in cyclone separators 2013 ,		3
81	Numerical Simulation of Particle Flow Motion in a Two-Dimensional Modular Pebble-Bed Reactor with Discrete Element Method. <i>Science and Technology of Nuclear Installations</i> , 2013 , 2013, 1-12	0.6	3
80	Hydrodynamic modeling of particle rotation in bubbling gas-fluidized beds. <i>International Journal of Multiphase Flow</i> , 2012 , 39, 159-178	3.6	13
79	A cluster structure-dependent drag coefficient model applied to risers. <i>Powder Technology</i> , 2012 , 225, 176-189	5.2	33
78	Computational fluid dynamics of riser using kinetic theory of rough spheres. <i>Powder Technology</i> , 2012 , 228, 56-68	5.2	8
77	A bubbling fluidization model using kinetic theory of rough spheres. <i>AIChE Journal</i> , 2012 , 58, 440-455	3.6	15
76	Prediction of flow behavior of particles in a tapered bubbling fluidized bed using a second-order moment-frictional stresses model. <i>Chemical Engineering Science</i> , 2012 , 84, 170-181	4.4	13
75	Computational Fluid Dynamic Simulation Based Cluster Structures-Dependent Drag Coefficient Model in Dual Circulating Fluidized Beds of Chemical Looping Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1396-1412	3.9	15
74	Simulation of flow behavior of particles by cluster structure-dependent drag coefficient model for chemical looping combustion process: Air reactor modeling. <i>Fuel Processing Technology</i> , 2012 , 104, 219-233	7.2	14
73	A second-order moment method applied to gas-solid risers. <i>AIChE Journal</i> , 2012 , 58, 3653-3675	3.6	15
72	CFD simulation of bubbling fluidized beds using kinetic theory of rough sphere. <i>Chemical Engineering Science</i> , 2012 , 71, 185-201	4.4	5

71	Hydrodynamic simulation of fuel-reactor in chemical looping combustion process. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 1501-1510	5.5	26
70	Simulation of particles and gas flow behavior in a riser using a filtered two-fluid model. <i>Chemical Engineering Science</i> , 2011 , 66, 593-603	4.4	6
69	Fluid dynamic simulation in a chemical looping combustion with two interconnected fluidized beds. <i>Fuel Processing Technology</i> , 2011 , 92, 385-393	7.2	41
68	Simulation of cohesive particle motion in a sound-assisted fluidized bed. <i>Powder Technology</i> , 2011 , 207, 65-77	5.2	21
67	Modeling of cluster structure-dependent drag with Eulerian approach for circulating fluidized beds. <i>Powder Technology</i> , 2011 , 208, 98-110	5.2	50
66	Computations of Fluid Dynamics of a 50 MWe Circulating Fluidized Bed Combustor. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5132-5140	3.9	10
65	Numerical Simulation of Fluid Dynamics of a Riser: Influence of Particle Rotation. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 3585-3596	3.9	8
64	Numerical simulation of particle motion in vibrated fluidized beds. <i>Powder Technology</i> , 2010 , 197, 25-35	5.2	47
63	Numerical simulation of gas-particle flow with a second-order moment method in bubbling fluidized beds. <i>Powder Technology</i> , 2010 , 199, 213-225	5.2	15
62	Numerical simulation of particle motion in a gradient magnetically assisted fluidized bed. <i>Powder Technology</i> , 2010 , 203, 555-564	5.2	26
61	Answer to Comment on two-dimensional discrete particle model by Berrouk and Wu. <i>Chemical Engineering Journal</i> , 2010 , 160, 812	14.7	
60	Numerical simulation of flow behavior of agglomerates in gas-cohesive particles fluidized beds using agglomerates-based approach. <i>Chemical Engineering Science</i> , 2010 , 65, 1462-1473	4.4	21
59	Flow of gas and particles in a bubbling fluidized bed with a filtered two-fluid model. <i>Chemical Engineering Science</i> , 2010 , 65, 2664-2679	4.4	17
58	DSMC prediction of granular temperatures of clusters and dispersed particles in a riser. <i>Powder Technology</i> , 2009 , 192, 225-233	5.2	24
57	Numerical study on the cluster flow behavior in the riser of circulating fluidized beds. <i>Chemical Engineering Journal</i> , 2009 , 150, 374-384	14.7	25
56	Discrete particle simulations for flow of binary particle mixture in a bubbling fluidized bed with a transport energy weighted averaging scheme. <i>Chemical Engineering Science</i> , 2009 , 64, 1707-1718	4.4	12
55	Study on forced convective heat transfer of non-newtonian nanofluids. <i>Journal of Thermal Science</i> , 2009 , 18, 20-26	1.9	30
54	Simulations of flow behavior of fuel particles in a conceptual helium-cooled spout fluidized bed nuclear reactor. <i>Nuclear Engineering and Design</i> , 2009 , 239, 106-115	1.8	6

53	Numerical analysis of interphase heat and mass transfer of cluster in a circulating fluidized bed. <i>Powder Technology</i> , 2009 , 189, 87-96	5.2	15
52	Numerical simulations of flow behavior of gas and particles in spouted beds using frictional-kinetic stresses model. <i>Powder Technology</i> , 2009 , 196, 184-193	5.2	56
51	Prediction on immersed tubes erosion using two-fluid model in a bubbling fluidized bed. <i>Chemical Engineering Science</i> , 2009 , 64, 3072-3082	4.4	20
50	A second-order moment method of dense gas-solid flow for bubbling fluidization. <i>Chemical Engineering Science</i> , 2009 , 64, 5013-5027	4.4	17
49	CFD studies on mass transfer of gas-to-particle cluster in a circulating fluidized bed. <i>Computers and Chemical Engineering</i> , 2009 , 33, 393-401	4	19
48	Numerical investigation into the convective heat transfer of TiO ₂ nanofluids flowing through a straight tube under the laminar flow conditions. <i>Applied Thermal Engineering</i> , 2009 , 29, 1965-1972	5.8	199
47	Prediction of Radial Distribution Function of Particles in a Gas-Solid Fluidized Bed Using Discrete Hard-Sphere Model. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1343-1352	3.9	9
46	Numerical Prediction of Cracking Reaction of Particle Clusters in Fluid Catalytic Cracking Riser Reactors. <i>Chinese Journal of Chemical Engineering</i> , 2008 , 16, 670-678	3.2	17
45	Simulation of Performance of Cracking Reactions of Particle Clusters in FCC Risers. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 4632-4640	3.9	5
44	Numerical predictions of flow behavior and cluster size of particles in riser with particle rotation model and cluster-based approach. <i>Chemical Engineering Science</i> , 2008 , 63, 4116-4125	4.4	33
43	CFD simulations of bubbling beds of rough spheres. <i>Chemical Engineering Science</i> , 2008 , 63, 5653-5662	4.4	18
42	Numerical Simulations of the Effect of Conical Dimension on the Hydrodynamic Behaviour in Spouted Beds. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 82, 20-29	2.3	3
41	Numerical simulation of flow behavior of particles and clusters in riser using two granular temperatures. <i>Powder Technology</i> , 2008 , 182, 282-293	5.2	33
40	Simulation of effect of catalytic particle clustering on methane steam reforming in a circulating fluidized bed reformer. <i>Chemical Engineering Journal</i> , 2008 , 139, 136-146	14.7	10
39	Numerical analysis of particle clustering effects on desulphurization and NO emission in a circulating fluidized bed combustor. <i>Fuel</i> , 2008 , 87, 870-877	7.1	15
38	Simulation of effect of catalyst particle cluster on dry methane reforming in circulating fluidized beds. <i>Chemical Engineering Journal</i> , 2007 , 131, 123-134	14.7	28
37	Prediction of flow behavior of micro-particles in risers in the presence of van der Waals forces. <i>Chemical Engineering Journal</i> , 2007 , 132, 137-149	14.7	11
36	Investigation of mixing/segregation of mixture particles in gas-solid fluidized beds. <i>Chemical Engineering Science</i> , 2007 , 62, 301-317	4.4	98

35	Numerical study of coal particle cluster combustion under quiescent conditions. <i>Chemical Engineering Science</i> , 2007 , 62, 4336-4347	4.4	16
34	Heat transfer and flow behaviour of aqueous suspensions of TiO ₂ nanoparticles (nanofluids) flowing upward through a vertical pipe. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2272-2281	4.8	707
33	Numerical Simulations of Flow Behaviour of Agglomerates of Nano-Size Particles in Bubbling and Spouted Beds with an Agglomerate-Based Approach. <i>Food and Bioprocess Processing</i> , 2007 , 85, 231-240	4.9	7
32	Numerical Modeling of Gas Tubular Distributors in Bubbling Fluidized-Bed Incinerators. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 6818-6827	3.9	6
31	Numerical prediction of combustion of carbon particle clusters in a circulating fluidized bed riser. <i>Chemical Engineering Journal</i> , 2006 , 118, 1-10	14.7	33
30	Numerical simulations of gas-solid flow in tapered risers. <i>Powder Technology</i> , 2006 , 169, 89-98	5.2	23
29	Numerical simulation of bubble and particles motions in a bubbling fluidized bed using direct simulation Monte-Carlo method. <i>Powder Technology</i> , 2006 , 169, 159-171	5.2	25
28	Hydrodynamic Modeling of Gas-Particle Flows in DD Calciners. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3033-3041	3.9	3
27	A numerical study on the gas fluidisation of secondary agglomerates of nanoparticles. <i>Progress in Natural Science: Materials International</i> , 2005 , 15, 111-116	3.6	5
26	Simulation and experiment of segregating/mixing of rice husk and mixture in a bubbling fluidized bed. <i>Fuel</i> , 2005 , 84, 1739-1748	7.1	55
25	Flow behavior of clusters in a riser simulated by direct simulation Monte Carlo method. <i>Chemical Engineering Journal</i> , 2005 , 106, 197-211	14.7	38
24	Prediction of particle motion in a two-dimensional bubbling fluidized bed using discrete hard-sphere model. <i>Chemical Engineering Science</i> , 2005 , 60, 3217-3231	4.4	54
23	Numerical study of particle cluster flow in risers with cluster-based approach. <i>Chemical Engineering Science</i> , 2005 , 60, 6757-6767	4.4	47
22	Computer simulations of gas-solid flow in spouted beds using kinetic frictional stress model of granular flow. <i>Chemical Engineering Science</i> , 2004 , 59, 865-878	4.4	141
21	Hydrodynamics of gas-solid flow around immersed tubes in bubbling fluidized beds. <i>Powder Technology</i> , 2004 , 145, 88-105	5.2	58
20	Numerical study of gas-solid flow in a precalciner using kinetic theory of granular flow. <i>Chemical Engineering Journal</i> , 2004 , 102, 151-160	14.7	19
19	Size segregation of binary mixture of solids in bubbling fluidized beds. <i>Powder Technology</i> , 2003 , 134, 86-97	5.2	143
18	Hydrodynamic modelling of binary mixture in a gas bubbling fluidized bed using the kinetic theory of granular flow. <i>Chemical Engineering Science</i> , 2003 , 58, 1197-1205	4.4	117

17	Hydrodynamic simulation of gas-solid flow in a riser using kinetic theory of granular flow. <i>Chemical Engineering Journal</i> , 2003 , 95, 1-13	14.7	187
16	Hydrodynamics of binary fluidization in a riser: CFD simulation using two granular temperatures. <i>Chemical Engineering Science</i> , 2003 , 58, 3777-3792	4.4	266
15	Hydrodynamic Simulations of Gas-Solid Flow in a Riser. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 2390-2398	3.9	46
14	Chaotic behavior of local temperature fluctuations in a laboratory-scale circulating fluidized bed. <i>Powder Technology</i> , 2002 , 123, 59-68	5.2	11
13	Eulerian simulations of bubble behaviour in a two-dimensional gas-solid bubbling fluidized bed. <i>International Journal of Energy Research</i> , 2002 , 26, 1285-1293	4.5	16
12	Numerical Simulations of Hydrodynamic Behaviour in Spouted Beds. <i>Chemical Engineering Research and Design</i> , 2001 , 79, 593-599	5.5	27
11	Kinetic theory of fluidized binary granular mixtures. <i>Physical Review E</i> , 2001 , 64, 061301	2.4	74
10	A coal combustion model for circulating fluidized bed boilers. <i>Fuel</i> , 2000 , 79, 165-172	7.1	72
9	Kinetic theory of fluidized binary granular mixtures with unequal granular temperature. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 284, 265-276	3.3	47
8	Computations of a Circulating Fluidized-Bed Boiler with Wide Particle Size Distributions. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 3212-3220	3.9	5
7	Modeling of coal combustion in a 25-MW FBC power plant. <i>Energy</i> , 1999 , 24, 199-208	7.9	2
6	Equation of state and radial distribution functions of FCC particles in a CFB. <i>AIChE Journal</i> , 1998 , 44, 279-293	3.6	125
5	Numerical computation of a circulating fluidized bed combustor. <i>International Journal of Energy Research</i> , 1998 , 22, 1351-1364	4.5	10
4	Computer simulations and measurements of radial solid flow distribution in a riser. <i>Journal of Thermal Science</i> , 1998 , 7, 71-77	1.9	
3	Dimension measurements of hydrodynamic attractors in circulating fluidized beds. <i>Powder Technology</i> , 1997 , 90, 179-185	5.2	22
2	Collisional viscosity of FCC particles in a CFB. <i>AIChE Journal</i> , 1996 , 42, 2503-2510	3.6	92
1	The imaginary plane method of radiation heat transfer in the freeboard of atmospheric bubbling fluidized bed boiler. <i>Journal of Thermal Science</i> , 1993 , 2, 18-24	1.9	1