

Aibing Yu

List of Publications by Year in descending order

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848
papers

41,476
citations

2797

94
h-index

5986

160
g-index

862
all docs

862
docs citations

862
times ranked

23199
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete particle simulation of particulate systems: Theoretical developments. <i>Chemical Engineering Science</i> , 2007, 62, 3378-3396.	1.9	1,516
2	Discrete particle simulation of particulate systems: A review of major applications and findings. <i>Chemical Engineering Science</i> , 2008, 63, 5728-5770.	1.9	1,172
3	Inorganic nanoparticles as carriers for efficient cellular delivery. <i>Chemical Engineering Science</i> , 2006, 61, 1027-1040.	1.9	841
4	Numerical simulation of the gas-solid flow in a fluidized bed by combining discrete particle method with computational fluid dynamics. <i>Chemical Engineering Science</i> , 1997, 52, 2785-2809.	1.9	811
5	Nanoarchitected Design of Porous Materials and Nanocomposites from Metal-Organic Frameworks. <i>Advanced Materials</i> , 2017, 29, 1604898.	11.1	732
6	Discrete particle simulation of particle-fluid flow: model formulations and their applicability. <i>Journal of Fluid Mechanics</i> , 2010, 661, 482-510.	1.4	605
7	Rolling friction in the dynamic simulation of sandpile formation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 269, 536-553.	1.2	582
8	Multiscale modeling and simulation of polymer nanocomposites. <i>Progress in Polymer Science</i> , 2008, 33, 191-269.	11.8	562
9	Clay-Based Polymer Nanocomposites: Research and Commercial Development. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1574-1592.	0.9	482
10	DEM/CFD-DEM Modelling of Non-spherical Particulate Systems: Theoretical Developments and Applications. <i>Powder Technology</i> , 2016, 302, 108-152.	2.1	437
11	Computer simulation of the packing of fine particles. <i>Physical Review E</i> , 2000, 62, 3900-3908.	0.8	382
12	An experimental and numerical study of the angle of repose of coarse spheres. <i>Powder Technology</i> , 2002, 125, 45-54.	2.1	335
13	Numerical study of gas-solid flow in a cyclone separator. <i>Applied Mathematical Modelling</i> , 2006, 30, 1326-1342.	2.2	285
14	Evaluation of the packing characteristics of mono-sized non-spherical particles. <i>Powder Technology</i> , 1996, 88, 71-79.	2.1	279
15	Particle scale study of heat transfer in packed and bubbling fluidized beds. <i>AIChE Journal</i> , 2009, 55, 868-884.	1.8	261
16	Recent progress in VO ₂ smart coatings: Strategies to improve the thermochromic properties. <i>Progress in Materials Science</i> , 2016, 81, 1-54.	16.0	245
17	CFD simulation of dense particulate reaction system: Approaches, recent advances and applications. <i>Chemical Engineering Science</i> , 2016, 140, 16-43.	1.9	245
18	CFD-DEM simulation of the gas-solid flow in a cyclone separator. <i>Chemical Engineering Science</i> , 2011, 66, 834-847.	1.9	244

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19	CFD-DEM modelling of multiphase flow in dense medium cyclones. Powder Technology, 2009, 193, 235-247.	2.1	225
20	On the modelling of the packing of fine particles. Powder Technology, 1997, 92, 185-194.	2.1	215
21	Advances on tungsten oxide based photochromic materials: strategies to improve their photochromic properties. Journal of Materials Chemistry C, 2018, 6, 191-212.	2.7	208
22	Discrete particle simulation of gas fluidization of particle mixtures. AIChE Journal, 2004, 50, 1713-1728.	1.8	205
23	Simulated and measured flow of granules in a bladed mixer—a detailed comparison. Chemical Engineering Science, 2001, 56, 5457-5471.	1.9	200
24	Discrete particle simulation of gas fluidization of ellipsoidal particles. Chemical Engineering Science, 2011, 66, 6128-6145.	1.9	198
25	Lattice-Boltzmann simulation of fluid flow through packed beds of uniform spheres: Effect of porosity. Chemical Engineering Science, 2013, 99, 44-58.	1.9	198
26	Recent Advances in Nanostructured Vanadium Oxides and Composites for Energy Conversion. Advanced Energy Materials, 2017, 7, 1700885.	10.2	196
27	Numerical simulation of complex particle-fluid flows. Powder Technology, 2008, 179, 104-114.	2.1	195
28	Evaluation of effective thermal conductivity from the structure of a packed bed. Chemical Engineering Science, 1999, 54, 4199-4209.	1.9	193
29	Modifying the Linear Packing Model for Predicting the Porosity of Nonspherical Particle Mixtures. Industrial & Engineering Chemistry Research, 1996, 35, 3730-3741.	1.8	189
30	Estimation of the porosity of particle mixtures by a linear-mixture packing model. Industrial & Engineering Chemistry Research, 1991, 30, 1372-1385.	1.8	183
31	Assessment of Model Formulations in the Discrete Particle Simulation of Gas-Solid Flow. Industrial & Engineering Chemistry Research, 2004, 43, 8378-8390.	1.8	183
32	Porosity calculations of multi-component mixtures of spherical particles. Powder Technology, 1987, 52, 233-241.	2.1	180
33	Numerical simulation of particle dynamics in different flow regimes in a rotating drum. Powder Technology, 2008, 188, 170-177.	2.1	178
34	Dynamic Simulation of the Packing of Ellipsoidal Particles. Industrial & Engineering Chemistry Research, 2011, 50, 9787-9798.	1.8	178
35	Controllable Synthesis of ZnO Nanoflakes with Exposed (101̄1...0) for Enhanced Gas Sensing Performance. Journal of Physical Chemistry C, 2013, 117, 13153-13162.	1.5	176
36	Role of Citric Acid in the Formation of Silver Nanoplates through a Synergistic Reduction Approach. Langmuir, 2010, 26, 4400-4408.	1.6	173

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37	An analytical parametric theory of the random packing of particles. Powder Technology, 1988, 55, 171-186.	2.1	170
38	Crystal plane-dependent gas-sensing properties of zinc oxide nanostructures: experimental and theoretical studies. Physical Chemistry Chemical Physics, 2014, 16, 11471-11480.	1.3	168
39	CFD-DEM modelling and simulation of pneumatic conveying: A review. Powder Technology, 2020, 365, 186-207.	2.1	166
40	Solvothermal synthesis of ZnO-decorated Fe_2O_3 nanorods with highly enhanced gas-sensing performance toward n-butanol. Journal of Materials Chemistry A, 2014, 2, 13283-13292.	5.2	164
41	Mesoporous Materials for Electrochemical Energy Storage and Conversion. Advanced Energy Materials, 2020, 10, 2002152.	10.2	162
42	On the relationship between porosity and interparticle forces. Powder Technology, 2003, 130, 70-76.	2.1	161
43	Role of Temperature in the Growth of Silver Nanoparticles Through a Synergetic Reduction Approach. Nanoscale Research Letters, 2011, 6, 32.	3.1	160
44	Microdynamic analysis of particle flow in a horizontal rotating drum. Powder Technology, 2003, 130, 138-146.	2.1	158
45	DEM study of the transverse mixing of wet particles in rotating drums. Chemical Engineering Science, 2013, 86, 99-107.	1.9	157
46	Numerical simulation of the gas-solid flow in a bed with lateral gas blasting. Powder Technology, 2000, 109, 13-26.	2.1	156
47	The packing of spheres in a cylindrical container: the thickness effect. Chemical Engineering Science, 1995, 50, 1504-1507.	1.9	154
48	Synthesis of polymer-montmorillonite nanocomposites by in situ intercalative polymerization. Nanotechnology, 2002, 13, 549-553.	1.3	152
49	Applicability of a coarse-grained CFD-DEM model on dense medium cyclone. Minerals Engineering, 2016, 90, 43-54.	1.8	150
50	A simulation study of the effects of dynamic variables on the packing of spheres. Powder Technology, 2001, 116, 23-32.	2.1	149
51	Molecular Dynamics Simulation of Organic-Inorganic Nanocomposites: Layering Behavior and Interlayer Structure of Organoclays. Chemistry of Materials, 2003, 15, 4732-4738.	3.2	147
52	Thiol-Frozen Shape Evolution of Triangular Silver Nanoplates. Langmuir, 2007, 23, 2218-2223.	1.6	146
53	Flow characteristics and discharge rate of ellipsoidal particles in a flat bottom hopper. Powder Technology, 2014, 253, 70-79.	2.1	144
54	A three-dimensional numerical study of the combustion of coal blends in blast furnace. Fuel, 2009, 88, 255-263.	3.4	141

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55	Silver Nanoplates: A Highly Sensitive Material toward Inorganic Anions. <i>Langmuir</i> , 2008, 24, 4300-4309.	1.6	136
56	Particle-scale modelling of gas-solid flow in fluidisation. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 111-121.	1.6	134
57	Characteristics and fabrication of NiTi/Si diaphragm micropump. <i>Sensors and Actuators A: Physical</i> , 2001, 93, 87-92.	2.0	133
58	Review on Modeling and Simulation of Blast Furnace. <i>Steel Research International</i> , 2018, 89, 1700071.	1.0	133
59	Dense random packings of spherocylinders. <i>Soft Matter</i> , 2012, 8, 1003-1009.	1.2	132
60	Numerical Study of Particle-Fluid Flow in a Hydrocyclone. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 4695-4705.	1.8	131
61	DEM simulation of particle flow on a multi-deck banana screen. <i>Minerals Engineering</i> , 2009, 22, 910-920.	1.8	130
62	MnO ₂ film with three-dimensional structure prepared by hydrothermal process for supercapacitor. <i>Journal of Power Sources</i> , 2012, 199, 409-412.	4.0	130
63	DEM study of the flow of cohesive particles in a screw feeder. <i>Powder Technology</i> , 2014, 256, 529-539.	2.1	129
64	Role of Interparticle Forces in the Formation of Random Loose Packing. <i>Physical Review Letters</i> , 2006, 96, 145505.	2.9	128
65	Three-dimensional modelling of in-furnace coal/coke combustion in a blast furnace. <i>Fuel</i> , 2011, 90, 728-738.	3.4	127
66	Porosity Calculation of Binary Mixtures of Nonspherical Particles. <i>Journal of the American Ceramic Society</i> , 1993, 76, 2813-2816.	1.9	126
67	Numerical study of particle-fluid flow in hydrocyclones with different body dimensions. <i>Minerals Engineering</i> , 2006, 19, 1022-1033.	1.8	122
68	Flame-Synthesized Ceria-Supported Copper Dimers for Preferential Oxidation of CO. <i>Advanced Functional Materials</i> , 2009, 19, 369-377.	7.8	120
69	A new computational method for studying heat transfer in fluid bed reactors. <i>Powder Technology</i> , 2010, 197, 102-110.	2.1	120
70	Microdynamic analysis of the particle flow in a cylindrical bladed mixer. <i>Chemical Engineering Science</i> , 2004, 59, 1343-1364.	1.9	119
71	Averaging method of granular materials. <i>Physical Review E</i> , 2002, 66, 021302.	0.8	116
72	Micromechanical Simulation and Analysis of One-Dimensional Vibratory Sphere Packing. <i>Physical Review Letters</i> , 2005, 95, 205502.	2.9	116

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73	A novel method based on orientation discretization for discrete element modeling of non-spherical particles. <i>Chemical Engineering Science</i> , 2015, 126, 500-516.	1.9	116
74	Lattice-Boltzmann simulation of fluid flow through packed beds of spheres: Effect of particle size distribution. <i>Chemical Engineering Science</i> , 2014, 116, 508-523.	1.9	115
75	Self-Assembly of Particles for Densest Packing by Mechanical Vibration. <i>Physical Review Letters</i> , 2006, 97, 265501.	2.9	113
76	Computational study of heat transfer in a bubbling fluidized bed with a horizontal tube. <i>AIChE Journal</i> , 2012, 58, 1422-1434.	1.8	113
77	Numerical study of liquid-gas-solid flow in classifying hydrocyclones: Effect of feed solids concentration. <i>Minerals Engineering</i> , 2012, 31, 17-31.	1.8	112
78	A GPU-based DEM approach for modelling of particulate systems. <i>Powder Technology</i> , 2016, 301, 1172-1182.	2.1	111
79	Dynamic simulation of the centripetal packing of mono-sized spheres. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 268, 433-453.	1.2	109
80	Computational Investigation of Horizontal Slug Flow in Pneumatic Conveying. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 470-480.	1.8	109
81	Hydrothermal synthesis of ternary $\text{Fe}_2\text{O}_3\text{-ZnO-Au}$ nanocomposites with high gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 889-897.	4.0	109
82	Modeling of Blast Furnace with Layered Cohesive Zone. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010, 41, 330-349.	1.0	107
83	Modelling of Multiphase Flow in a Blast Furnace: Recent Developments and Future Work. <i>ISIJ International</i> , 2007, 47, 1553-1570.	0.6	106
84	Micromechanical modeling and analysis of different flow regimes in gas fluidization. <i>Chemical Engineering Science</i> , 2012, 84, 449-468.	1.9	106
85	Numerical investigation of the angle of repose of monosized spheres. <i>Physical Review E</i> , 2001, 64, 021301.	0.8	104
86	Holey Assembly of Two-Dimensional Iron-Doped Nickel-Cobalt Layered Double Hydroxide Nanosheets for Energy Conversion Application. <i>ChemSusChem</i> , 2020, 13, 1645-1655.	3.6	104
87	Microdynamic modelling and analysis of the mixing and segregation of binary mixtures of particles in gas fluidization. <i>Chemical Engineering Science</i> , 2007, 62, 256-268.	1.9	103
88	CFD-DEM study of the effect of particle density distribution on the multiphase flow and performance of dense medium cyclone. <i>Minerals Engineering</i> , 2009, 22, 893-909.	1.8	103
89	Biomorphic Synthesis of Mesoporous Co_3O_4 Microtubules and Their Pseudocapacitive Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15632-15637.	4.0	103
90	Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2208-2217.	6.6	103

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91	Numerical study of the gas-liquid-solid flow in hydrocyclones with different configuration of vortex finder. <i>Chemical Engineering Journal</i> , 2008, 135, 33-42.	6.6	102
92	A new method for analyzing the local structures of disordered systems. <i>Europhysics Letters</i> , 2011, 96, 36001.	0.7	102
93	A study of particle size distributions. <i>Powder Technology</i> , 1990, 62, 101-118.	2.1	99
94	Coordination number of binary mixtures of spheres. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 457-462.	1.3	99
95	Formation of ultrafine three-dimensional hierarchical birnessite-type MnO ₂ nanoflowers for supercapacitor. <i>Journal of Alloys and Compounds</i> , 2014, 607, 245-250.	2.8	98
96	A CFD-DEM study of the cluster behavior in riser and downer reactors. <i>Powder Technology</i> , 2008, 184, 151-165.	2.1	97
97	Three-dimensional Modelling of Coal Combustion in Blast Furnace. <i>ISIJ International</i> , 2008, 48, 777-786.	0.6	97
98	CFD-DEM investigation of the dispersion mechanisms in commercial dry powder inhalers. <i>Powder Technology</i> , 2013, 240, 19-24.	2.1	97
99	CFD-DEM modelling of hydraulic conveying of solid particles in a vertical pipe. <i>Powder Technology</i> , 2019, 354, 893-905.	2.1	97
100	Voronoi tessellation of the packing of fine uniform spheres. <i>Physical Review E</i> , 2002, 65, 041302.	0.8	93
101	Discrete Particle Simulation of Solid Flow in a Model Blast Furnace. <i>ISIJ International</i> , 2005, 45, 1828-1837.	0.6	93
102	Numerical analysis of hydrocyclones with different conical section designs. <i>Minerals Engineering</i> , 2014, 62, 74-84.	1.8	92
103	DEM investigation of energy distribution and particle breakage in tumbling ball mills. <i>Powder Technology</i> , 2012, 223, 83-91.	2.1	91
104	A particle-scale index in the quantification of mixing of particles. <i>AIChE Journal</i> , 2012, 58, 1099-1118.	1.8	90
105	Computational investigation of the effect of particle density on the multiphase flows and performance of hydrocyclone. <i>Minerals Engineering</i> , 2016, 90, 55-69.	1.8	90
106	A self-seeding coreduction method for shape control of silver nanoplates. <i>Nanotechnology</i> , 2006, 17, 4929-4935.	1.3	88
107	The effect of Al addition on the gas sensing properties of Fe ₂ O ₃ -based sensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 75, 18-23.	4.0	87
108	Effect of material properties on the packing of fine particles. <i>Journal of Applied Physics</i> , 2003, 94, 3025-3034.	1.1	87

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109	Dynamics of wet particles in rotating drums: Effect of liquid surface tension. <i>Physics of Fluids</i> , 2011, 23, .	1.6	86
110	Discrete particle simulation of gas–solid flow in a blast furnace. <i>Computers and Chemical Engineering</i> , 2008, 32, 1760-1772.	2.0	85
111	Formation of three-dimensional hierarchical pompon-like cobalt phosphide hollow microspheres for asymmetric supercapacitor with improved energy density. <i>Electrochimica Acta</i> , 2019, 299, 62-71.	2.6	85
112	Growth mechanisms of silver nanoparticles: a molecular dynamics study. <i>Nanotechnology</i> , 2007, 18, 035708.	1.3	84
113	Effect of vibration condition and inter-particle frictions on the packing of uniform spheres. <i>Powder Technology</i> , 2008, 188, 102-109.	2.1	83
114	Numerical analysis of hydrocyclones with different vortex finder configurations. <i>Minerals Engineering</i> , 2014, 63, 125-138.	1.8	83
115	Optimisation of a circularly vibrating screen based on DEM simulation and Taguchi orthogonal experimental design. <i>Powder Technology</i> , 2017, 310, 307-317.	2.1	83
116	Healable green hydrogen bonded networks for circuit repair, wearable sensor and flexible electronic devices. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13138-13144.	5.2	83
117	Numerical modelling of the breakage of loose agglomerates of fine particles. <i>Powder Technology</i> , 2009, 196, 213-221.	2.1	82
118	Bimetallic Ag–Au Nanowires: Synthesis, Growth Mechanism, and Catalytic Properties. <i>Langmuir</i> , 2013, 29, 7134-7142.	1.6	82
119	Combustion optimization of ultra supercritical boiler based on artificial intelligence. <i>Energy</i> , 2019, 170, 804-817.	4.5	82
120	Lattice–Boltzmann simulation of fluid flow through packed beds of uniform ellipsoids. <i>Powder Technology</i> , 2015, 285, 146-156.	2.1	81
121	Dual-Phase Transformation: Spontaneous Self-Template Surface-Patterning Strategy for Ultra-transparent VO ₂ Solar Modulating Coatings. <i>ACS Nano</i> , 2017, 11, 407-415.	7.3	81
122	The interlayer swelling and molecular packing in organoclays. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 462-468.	5.0	80
123	CFD-DEM simulation of raceway formation in an ironmaking blast furnace. <i>Powder Technology</i> , 2017, 314, 542-549.	2.1	80
124	Particle scale study of heat transfer in packed and fluidized beds of ellipsoidal particles. <i>Chemical Engineering Science</i> , 2016, 144, 201-215.	1.9	79
125	Modelling of the Solids Flow in a Blast Furnace.. <i>ISIJ International</i> , 1998, 38, 1311-1319.	0.6	78
126	A Two-Step Hydrothermal Synthesis Approach to Monodispersed Colloidal Carbon Spheres. <i>Nanoscale Research Letters</i> , 2009, 4, 971-976.	3.1	78

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127	Gasâ€“solid flow in an ironmaking blast furnace-II: Discrete particle simulation. Powder Technology, 2011, 208, 72-85.	2.1	78
128	Ab initio study of phase stability in doped TiO2. Computational Mechanics, 2012, 50, 185-194.	2.2	78
129	Application of periodic boundary conditions to CFD-DEM simulation of gasâ€“solid flow in pneumatic conveying. Chemical Engineering Science, 2013, 93, 214-228.	1.9	78
130	Numerical modelling of the gas flow through perforated plates. Chemical Engineering Research and Design, 2013, 91, 403-408.	2.7	78
131	Modeling of Particle Flow and Sieving Behavior on a Vibrating Screen: From Discrete Particle Simulation to Process Performance Prediction. Industrial & Engineering Chemistry Research, 2013, 52, 11333-11343.	1.8	78
132	CFD-DEM study on cohesive particles in a spouted bed. Powder Technology, 2017, 314, 377-386.	2.1	78
133	Numerical study of the effects of particle size and polydispersity on the agglomerate dispersion in a cyclonic flow. Chemical Engineering Journal, 2010, 164, 432-441.	6.6	77
134	Experimental study of the packing of mono-sized spheres subjected to one-dimensional vibration. Powder Technology, 2009, 196, 50-55.	2.1	76
135	Contact forces between viscoelastic ellipsoidal particles. Powder Technology, 2013, 248, 25-33.	2.1	75
136	Characterisation of non-spherical particles from their packing behaviour. Powder Technology, 1993, 74, 205-213.	2.1	74
137	DEM-based virtual experimental blast furnace: A quasi-steady state model. Powder Technology, 2017, 314, 557-566.	2.1	74
138	Effects of blade rake angle and gap on particle mixing in a cylindrical mixer. Powder Technology, 2009, 193, 303-311.	2.1	73
139	Review of clothing for thermal management with advanced materials. Cellulose, 2019, 26, 6415-6448.	2.4	73
140	Computational Study of Flow Regimes in Vertical Pneumatic Conveying. Industrial & Engineering Chemistry Research, 2009, 48, 6846-6858.	1.8	72
141	DEM simulation on the packing of fine ellipsoids. Chemical Engineering Science, 2016, 156, 64-76.	1.9	72
142	DEM simulation of cubical particle packing under mechanical vibration. Powder Technology, 2017, 314, 89-101.	2.1	72
143	Molecular Dynamics Simulation of the Structural and Dynamic Properties of Dioctadecyldimethyl Ammoniums in Organoclays. Journal of Physical Chemistry B, 2004, 108, 10025-10033.	1.2	71
144	DEM simulation of the flow of grinding media in IsaMill. Minerals Engineering, 2006, 19, 984-994.	1.8	71

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145	Numerical Simulation of the Gas-Solid Flow in Three-Dimensional Pneumatic Conveying Bends. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 7058-7071.	1.8	71
146	Experimental and theoretical study on the Fe^{2+} -FeOOH nanorods: growth and conversion. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3961-3974.	0.8	71
147	Three-Dimensional Modeling of Flow and Thermochemical Behavior in a Blast Furnace. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 432-448.	1.0	71
148	Experimental and theoretical studies on noble metal decorated tin oxide flower-like nanorods with high ethanol sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 83-93.	4.0	70
149	Discrete particle simulation of particle flow in IsaMill® Effect of grinding medium properties. <i>Chemical Engineering Journal</i> , 2008, 135, 103-112.	6.6	69
150	Numerical study of horizontal pneumatic conveying: Effect of material properties. <i>Powder Technology</i> , 2014, 251, 15-24.	2.1	69
151	Micromechanic modeling and analysis of the flow regimes in horizontal pneumatic conveying. <i>AIChE Journal</i> , 2011, 57, 2708-2725.	1.8	68
152	Segregation of binary mixture of particles in a bladed mixer. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 187-193.	1.6	67
153	Computational investigation of the mechanisms of particle separation and "fishhook" phenomenon in hydrocyclones. <i>AIChE Journal</i> , 2010, 56, 1703-1715.	1.8	67
154	CFD-DEM modeling of gas fluidization of fine ellipsoidal particles. <i>AIChE Journal</i> , 2016, 62, 62-77.	1.8	67
155	Effect of laser surface texture on CuSn6 bronze sliding against PTFE material under dry friction. <i>Tribology International</i> , 2018, 118, 37-45.	3.0	67
156	Effect of liquid addition on the packing of mono-sized coarse spheres. <i>Powder Technology</i> , 1998, 99, 22-28.	2.1	66
157	Angle of repose and stress distribution of sandpiles formed with ellipsoidal particles. <i>Granular Matter</i> , 2014, 16, 695-709.	1.1	66
158	Experimental and theoretical studies of $\text{V}_2\text{O}_5/\text{TiO}_2$ core-shell hybrid composites with high gas sensing performance towards ammonia. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 103-115.	4.0	66
159	Mesoporous ZnMn_2O_4 Microtubules Derived from a Biomorphic Strategy for High-Performance Lithium/Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33170-33178.	4.0	66
160	Adhesion effects on spreading of metal powders in selective laser melting. <i>Powder Technology</i> , 2020, 363, 602-610.	2.1	65
161	Hydrogen generation from a catalytic water gas shift reaction under microwave irradiation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4789-4797.	3.8	64
162	Experimental study on the packing of uniform spheres under three-dimensional vibration. <i>Powder Technology</i> , 2011, 208, 617-622.	2.1	64

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163	Hydrogen production from steam reforming of coke oven gas and its utility for indirect reduction of iron oxides in blast furnace. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11748-11758.	3.8	64
164	Effect of Cation Intercalation on the Growth of Hexagonal WO ₃ Nanorods. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11722-11727.	1.5	64
165	Effect of particle shape and size on effective thermal conductivity of packed beds. <i>Powder Technology</i> , 2017, 311, 157-166.	2.1	64
166	Discrete element method. <i>Engineering Computations</i> , 2004, 21, 205-214.	0.7	63
167	Coordination Number of the Packing of Ternary Mixtures of Spheres: DEM Simulations versus Measurements. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 8773-8785.	1.8	63
168	Finite element analysis of the contact forces between a viscoelastic sphere and rigid plane. <i>Powder Technology</i> , 2012, 226, 130-142.	2.1	63
169	Numerical study of hot charge operation in ironmaking blast furnace. <i>Minerals Engineering</i> , 2014, 63, 45-56.	1.8	63
170	A study of the packing of particles with a mixture size distribution. <i>Powder Technology</i> , 1993, 76, 113-124.	2.1	62
171	Formation and description of nano-clusters formed during rapid solidification processes in liquid metals. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 612-617.	1.5	62
172	Agglomeration of fine particles subjected to centripetal compaction. <i>Powder Technology</i> , 2008, 184, 122-129.	2.1	62
173	CFD-DEM modelling of particle flow in IsaMills – Comparison between simulations and PEPT measurements. <i>Minerals Engineering</i> , 2011, 24, 181-187.	1.8	62
174	Prediction of the porosity of multi-component mixtures of cohesive and non-cohesive particles. <i>Chemical Engineering Science</i> , 2011, 66, 4711-4721.	1.9	62
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