

Aibing Yu

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811
papers

32,387
citations

85
h-index

142
g-index

861
ext. papers

36,741
ext. citations

4.5
avg, IF

7.8
L-index

#	Paper	IF	Citations
811	Discrete particle simulation of particulate systems: Theoretical developments. <i>Chemical Engineering Science</i> , 2007 , 62, 3378-3396	4.4	1188
810	Discrete particle simulation of particulate systems: A review of major applications and findings. <i>Chemical Engineering Science</i> , 2008 , 63, 5728-5770	4.4	1006
809	Inorganic nanoparticles as carriers for efficient cellular delivery. <i>Chemical Engineering Science</i> , 2006 , 61, 1027-1040	4.4	725
808	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	4.4	685
807	Nanoarchitected Design of Porous Materials and Nanocomposites from Metal-Organic Frameworks. <i>Advanced Materials</i> , 2017 , 29, 1604898	24	597
806	Rolling friction in the dynamic simulation of sandpile formation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 269, 536-553	3.3	482
805	Multiscale modeling and simulation of polymer nanocomposites. <i>Progress in Polymer Science</i> , 2008 , 33, 191-269	29.6	480
804	Discrete particle simulation of particle-fluid flow: model formulations and their applicability. <i>Journal of Fluid Mechanics</i> , 2010 , 661, 482-510	3.7	430
803	Clay-based polymer nanocomposites: research and commercial development. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1574-92	1.3	421
802	Computer simulation of the packing of fine particles. <i>Physical Review E</i> , 2000 , 62, 3900-8	2.4	330
801	DEM/CFD-DEM Modelling of Non-spherical Particulate Systems: Theoretical Developments and Applications. <i>Powder Technology</i> , 2016 , 302, 108-152	5.2	300
800	An experimental and numerical study of the angle of repose of coarse spheres. <i>Powder Technology</i> , 2002 , 125, 45-54	5.2	274
799	Evaluation of the packing characteristics of mono-sized non-spherical particles. <i>Powder Technology</i> , 1996 , 88, 71-79	5.2	251
798	Numerical study of gas-solid flow in a cyclone separator. <i>Applied Mathematical Modelling</i> , 2006 , 30, 1326-1342	4.3	214
797	Particle scale study of heat transfer in packed and bubbling fluidized beds. <i>AIChE Journal</i> , 2009 , 55, 868-884	3.8	203
796	CFD-DEM modelling of multiphase flow in dense medium cyclones. <i>Powder Technology</i> , 2009 , 193, 235-247	4.7	192
795	CFD-DEM simulation of the gas-solid flow in a cyclone separator. <i>Chemical Engineering Science</i> , 2011 , 66, 834-847	4.4	190

794	On the modelling of the packing of fine particles. <i>Powder Technology</i> , 1997 , 92, 185-194	5.2	188
793	Recent progress in VO ₂ smart coatings: Strategies to improve the thermochromic properties. <i>Progress in Materials Science</i> , 2016 , 81, 1-54	42.2	186
792	Simulated and measured flow of granules in a bladed mixer—detailed comparison. <i>Chemical Engineering Science</i> , 2001 , 56, 5457-5471	4.4	182
791	CFD simulation of dense particulate reaction system: Approaches, recent advances and applications. <i>Chemical Engineering Science</i> , 2016 , 140, 16-43	4.4	180
790	Discrete particle simulation of gas fluidization of particle mixtures. <i>AIChE Journal</i> , 2004 , 50, 1713-1728	3.6	180
789	Numerical simulation of complex particle-fluid flows. <i>Powder Technology</i> , 2008 , 179, 104-114	5.2	167
788	Evaluation of effective thermal conductivity from the structure of a packed bed. <i>Chemical Engineering Science</i> , 1999 , 54, 4199-4209	4.4	164
787	Lattice-Boltzmann simulation of fluid flow through packed beds of uniform spheres: Effect of porosity. <i>Chemical Engineering Science</i> , 2013 , 99, 44-58	4.4	162
786	Modifying the Linear Packing Model for Predicting the Porosity of Nonspherical Particle Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 3730-3741	3.9	162
785	Discrete particle simulation of gas fluidization of ellipsoidal particles. <i>Chemical Engineering Science</i> , 2011 , 66, 6128-6145	4.4	160
784	Assessment of Model Formulations in the Discrete Particle Simulation of Gas-Solid Flow. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 8378-8390	3.9	158
783	Estimation of the porosity of particle mixtures by a linear-mixture packing model. <i>Industrial & Engineering Chemistry Research</i> , 1991 , 30, 1372-1385	3.9	157
782	An analytical-parametric theory of the random packing of particles. <i>Powder Technology</i> , 1988 , 55, 171-186	5.2	153
781	Controllable Synthesis of ZnO Nanoflakes with Exposed (101 0) for Enhanced Gas Sensing Performance. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13153-13162	3.8	149
780	Porosity calculations of multi-component mixtures of spherical particles. <i>Powder Technology</i> , 1987 , 52, 233-241	5.2	148
779	Dynamic Simulation of the Packing of Ellipsoidal Particles. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9787-9798	3.9	146
778	Numerical simulation of particle dynamics in different flow regimes in a rotating drum. <i>Powder Technology</i> , 2008 , 188, 170-177	5.2	144
777	Role of citric acid in the formation of silver nanoplates through a synergistic reduction approach. <i>Langmuir</i> , 2010 , 26, 4400-8	4	142

776	On the relationship between porosity and interparticle forces. <i>Powder Technology</i> , 2003 , 130, 70-76	5.2	141
775	Solvothermal synthesis of ZnO-decorated γ -Fe ₂ O ₃ nanorods with highly enhanced gas-sensing performance toward n-butanol. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13283-13292	13	138
774	Numerical simulation of the gas-solid flow in a bed with lateral gas blasting. <i>Powder Technology</i> , 2000 , 109, 13-26	5.2	138
773	Crystal plane-dependent gas-sensing properties of zinc oxide nanostructures: experimental and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11471-80	3.6	136
772	The packing of spheres in a cylindrical container: the thickness effect. <i>Chemical Engineering Science</i> , 1995 , 50, 1504-1507	4.4	135
771	Synthesis of polymer-montmorillonite nanocomposites by in situ intercalative polymerization. <i>Nanotechnology</i> , 2002 , 13, 549-553	3.4	134
770	Microdynamic analysis of particle flow in a horizontal rotating drum. <i>Powder Technology</i> , 2003 , 130, 138-146	4.6	133
769	A simulation study of the effects of dynamic variables on the packing of spheres. <i>Powder Technology</i> , 2001 , 116, 23-32	5.2	133
768	Advances on tungsten oxide based photochromic materials: strategies to improve their photochromic properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 191-212	7.1	132
767	Molecular Dynamics Simulation of Organic-Inorganic Nanocomposites: Layering Behavior and Interlayer Structure of Organoclays. <i>Chemistry of Materials</i> , 2003 , 15, 4732-4738	9.6	131
766	Recent Advances in Nanostructured Vanadium Oxides and Composites for Energy Conversion. <i>Advanced Energy Materials</i> , 2017 , 7, 1700885	21.8	129
765	DEM study of the transverse mixing of wet particles in rotating drums. <i>Chemical Engineering Science</i> , 2013 , 86, 99-107	4.4	125
764	Silver nanoplates: a highly sensitive material toward inorganic anions. <i>Langmuir</i> , 2008 , 24, 4300-9	4	125
763	MnO ₂ film with three-dimensional structure prepared by hydrothermal process for supercapacitor. <i>Journal of Power Sources</i> , 2012 , 199, 409-412	8.9	121
762	Thiol-frozen shape evolution of triangular silver nanoplates. <i>Langmuir</i> , 2007 , 23, 2218-23	4	121
761	Role of interparticle forces in the formation of random loose packing. <i>Physical Review Letters</i> , 2006 , 96, 145505	7.4	120
760	Particle-scale modelling of gas-solid flow in fluidisation. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 111-121	3.5	118
759	Dense random packings of spherocylinders. <i>Soft Matter</i> , 2012 , 8, 1003-1009	3.6	116

758	Numerical Study of Particle Fluid Flow in a Hydrocyclone. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 4695-4705	3.9	113
757	Characteristics and fabrication of NiTi/Si diaphragm micropump. <i>Sensors and Actuators A: Physical</i> , 2001 , 93, 87-92	3.9	113
756	Porosity Calculation of Binary Mixtures of Nonspherical Particles. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2813-2816	3.8	109
755	Applicability of a coarse-grained CFD-DEM model on dense medium cyclone. <i>Minerals Engineering</i> , 2016 , 90, 43-54	4.9	107
754	Microdynamic analysis of the particle flow in a cylindrical bladed mixer. <i>Chemical Engineering Science</i> , 2004 , 59, 1343-1364	4.4	106
753	DEM simulation of particle flow on a multi-deck banana screen. <i>Minerals Engineering</i> , 2009 , 22, 910-920	4.9	105
752	A three-dimensional numerical study of the combustion of coal blends in blast furnace. <i>Fuel</i> , 2009 , 88, 255-263	7.1	105
751	Dynamic simulation of the centripetal packing of mono-sized spheres. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 268, 433-453	3.3	105
750	Flow characteristics and discharge rate of ellipsoidal particles in a flat bottom hopper. <i>Powder Technology</i> , 2014 , 253, 70-79	5.2	104
749	Flame-Synthesized Ceria-Supported Copper Dimers for Preferential Oxidation of CO. <i>Advanced Functional Materials</i> , 2009 , 19, 369-377	15.6	103
748	Micromechanical simulation and analysis of one-dimensional vibratory sphere packing. <i>Physical Review Letters</i> , 2005 , 95, 205502	7.4	103
747	DEM study of the flow of cohesive particles in a screw feeder. <i>Powder Technology</i> , 2014 , 256, 529-539	5.2	102
746	Role of Temperature in the Growth of Silver Nanoparticles Through a Synergetic Reduction Approach. <i>Nanoscale Research Letters</i> , 2011 , 6, 32	5	102
745	A new computational method for studying heat transfer in fluid bed reactors. <i>Powder Technology</i> , 2010 , 197, 102-110	5.2	99
744	Numerical study of particle fluid flow in hydrocyclones with different body dimensions. <i>Minerals Engineering</i> , 2006 , 19, 1022-1033	4.9	98
743	A novel method based on orientation discretization for discrete element modeling of non-spherical particles. <i>Chemical Engineering Science</i> , 2015 , 126, 500-516	4.4	97
742	Self-assembly of particles for densest packing by mechanical vibration. <i>Physical Review Letters</i> , 2006 , 97, 265501	7.4	96
741	Micromechanical modeling and analysis of different flow regimes in gas fluidization. <i>Chemical Engineering Science</i> , 2012 , 84, 449-468	4.4	94

740	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	4.4	93
739	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	4.4	92
738	Biomorphic synthesis of mesoporous Co_3O_4 microtubules and their pseudocapacitive performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15632-7	9.5	90
737	Hydrothermal synthesis of ternary $\text{Fe}_2\text{O}_3/\text{ZnO}/\text{Au}$ nanocomposites with high gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 889-897	8.5	90
736	Computational Investigation of Horizontal Slug Flow in Pneumatic Conveying. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 470-480	3.9	90
735	Computational study of heat transfer in a bubbling fluidized bed with a horizontal tube. <i>AIChE Journal</i> , 2012 , 58, 1422-1434	3.6	89
734	Discrete Particle Simulation of Solid Flow in a Model Blast Furnace. <i>ISIJ International</i> , 2005 , 45, 1828-1837	7.7	89
733	Voronoi tessellation of the packing of fine uniform spheres. <i>Physical Review E</i> , 2002 , 65, 041302	2.4	88
732	Formation of ultrafine three-dimensional hierarchical birnessite-type MnO_2 nanoflowers for supercapacitor. <i>Journal of Alloys and Compounds</i> , 2014 , 607, 245-250	5.7	87
731	Averaging method of granular materials. <i>Physical Review E</i> , 2002 , 66, 021302	2.4	87
730	A study of particle size distributions. <i>Powder Technology</i> , 1990 , 62, 101-118	5.2	87
729	Review on Modeling and Simulation of Blast Furnace. <i>Steel Research International</i> , 2018 , 89, 1700071	1.6	86
728	Three-dimensional modelling of in-furnace coal/coke combustion in a blast furnace. <i>Fuel</i> , 2011 , 90, 728-738	7.8	85
727	Coordination number of binary mixtures of spheres. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 457-462	3.3	85
726	Numerical investigation of the angle of repose of monosized spheres. <i>Physical Review E</i> , 2001 , 64, 021302	1.4	84
725	Numerical study of liquid-gas-solid flow in classifying hydrocyclones: Effect of feed solids concentration. <i>Minerals Engineering</i> , 2012 , 31, 17-31	4.9	83
724	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	4.9	82
723	A self-seeding coreduction method for shape control of silver nanoplates. <i>Nanotechnology</i> , 2006 , 17, 4929-4935	3.4	82

722	A GPU-based DEM approach for modelling of particulate systems. <i>Powder Technology</i> , 2016 , 301, 1172-1182	14.8	81
721	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	2.5	80
720	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	14.7	80
719	Effect of material properties on the packing of fine particles. <i>Journal of Applied Physics</i> , 2003 , 94, 3025-3034	3.4	80
718	CFD-DEM modelling and simulation of pneumatic conveying: A review. <i>Powder Technology</i> , 2020 , 365, 186-207	5.2	80
717	A CFD-DEM study of the cluster behavior in riser and downer reactors. <i>Powder Technology</i> , 2008 , 184, 151-165	5.2	79
716	Modelling of Multiphase Flow in a Blast Furnace: Recent Developments and Future Work. <i>ISIJ International</i> , 2007 , 47, 1553-1570	1.7	77
715	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	8.5	77
714	A new method for analyzing the local structures of disordered systems. <i>Europhysics Letters</i> , 2011 , 96, 36001	1.6	76
713	DEM investigation of energy distribution and particle breakage in tumbling ball mills. <i>Powder Technology</i> , 2012 , 223, 83-91	5.2	75
712	CFD-DEM investigation of the dispersion mechanisms in commercial dry powder inhalers. <i>Powder Technology</i> , 2013 , 240, 19-24	5.2	75
711	Bimetallic Ag-Au nanowires: synthesis, growth mechanism, and catalytic properties. <i>Langmuir</i> , 2013 , 29, 7134-42	4	75
710	Growth mechanisms of silver nanoparticles: a molecular dynamics study. <i>Nanotechnology</i> , 2007 , 18, 035708	3.4	75
709	The interlayer swelling and molecular packing in organoclays. <i>Journal of Colloid and Interface Science</i> , 2005 , 292, 462-8	9.3	73
708	Dynamics of wet particles in rotating drums: Effect of liquid surface tension. <i>Physics of Fluids</i> , 2011 , 23, 013304	4.4	71
707	Gas-solid flow in an ironmaking blast furnace-II: Discrete particle simulation. <i>Powder Technology</i> , 2011 , 208, 72-85	5.2	71
706	Three-dimensional Modelling of Coal Combustion in Blast Furnace. <i>ISIJ International</i> , 2008 , 48, 777-786	1.7	71
705	Numerical modelling of the breakage of loose agglomerates of fine particles. <i>Powder Technology</i> , 2009 , 196, 213-221	5.2	70

704	LatticeBoltzmann simulation of fluid flow through packed beds of uniform ellipsoids. <i>Powder Technology</i> , 2015 , 285, 146-156	5.2	69
703	Discrete particle simulation of gasSolid flow in a blast furnace. <i>Computers and Chemical Engineering</i> , 2008 , 32, 1760-1772	4	68
702	Experimental study of the packing of mono-sized spheres subjected to one-dimensional vibration. <i>Powder Technology</i> , 2009 , 196, 50-55	5.2	67
701	Effect of vibration condition and inter-particle frictions on the packing of uniform spheres. <i>Powder Technology</i> , 2008 , 188, 102-109	5.2	67
700	Characterisation of non-spherical particles from their packing behaviour. <i>Powder Technology</i> , 1993 , 74, 205-213	5.2	67
699	Numerical analysis of hydrocyclones with different vortex finder configurations. <i>Minerals Engineering</i> , 2014 , 63, 125-138	4.9	66
698	Computational investigation of the effect of particle density on the multiphase flows and performance of hydrocyclone. <i>Minerals Engineering</i> , 2016 , 90, 55-69	4.9	66
697	Dual-Phase Transformation: Spontaneous Self-Template Surface-Patterning Strategy for Ultra-transparent VO Solar Modulating Coatings. <i>ACS Nano</i> , 2017 , 11, 407-415	16.7	65
696	Numerical analysis of hydrocyclones with different conical section designs. <i>Minerals Engineering</i> , 2014 , 62, 74-84	4.9	65
695	A Two-Step Hydrothermal Synthesis Approach to Monodispersed Colloidal Carbon Spheres. <i>Nanoscale Research Letters</i> , 2009 , 4, 971-976	5	65
694	DEM simulation of the flow of grinding media in IsaMill. <i>Minerals Engineering</i> , 2006 , 19, 984-994	4.9	65
693	Mesoporous Materials for Electrochemical Energy Storage and Conversion. <i>Advanced Energy Materials</i> , 2020 , 10, 2002152	21.8	65
692	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	13	64
691	CFD-DEM simulation of raceway formation in an ironmaking blast furnace. <i>Powder Technology</i> , 2017 , 314, 542-549	5.2	63
690	Effects of blade rake angle and gap on particle mixing in a cylindrical mixer. <i>Powder Technology</i> , 2009 , 193, 303-311	5.2	63
689	Numerical study of the effects of particle size and polydispersity on the agglomerate dispersion in a cyclonic flow. <i>Chemical Engineering Journal</i> , 2010 , 164, 432-441	14.7	63
688	Numerical Simulation of the GasSolid Flow in Three-Dimensional Pneumatic Conveying Bends. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 7058-7071	3.9	63
687	Molecular Dynamics Simulation of the Structural and Dynamic Properties of Dioctadecyldimethyl Ammoniums in Organoclays. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 10025-10033	3.4	63

686	Application of periodic boundary conditions to CFD-DEM simulation of gas-solid flow in pneumatic conveying. <i>Chemical Engineering Science</i> , 2013 , 93, 214-228	4.4	62
685	A particle-scale index in the quantification of mixing of particles. <i>AIChE Journal</i> , 2012 , 58, 1099-1118	3.6	62
684	Modelling of the Solids Flow in a Blast Furnace.. <i>ISIJ International</i> , 1998 , 38, 1311-1319	1.7	62
683	Discrete particle simulation of particle flow in IsaMillEffect of grinding medium properties. <i>Chemical Engineering Journal</i> , 2008 , 135, 103-112	14.7	61
682	Optimisation of a circularly vibrating screen based on DEM simulation and Taguchi orthogonal experimental design. <i>Powder Technology</i> , 2017 , 310, 307-317	5.2	60
681	Contact forces between viscoelastic ellipsoidal particles. <i>Powder Technology</i> , 2013 , 248, 25-33	5.2	60
680	Particle scale study of heat transfer in packed and fluidized beds of ellipsoidal particles. <i>Chemical Engineering Science</i> , 2016 , 144, 201-215	4.4	59
679	CFD-DEM study on cohesive particles in a spouted bed. <i>Powder Technology</i> , 2017 , 314, 377-386	5.2	59
678	Modeling of Particle Flow and Sieving Behavior on a Vibrating Screen: From Discrete Particle Simulation to Process Performance Prediction. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 11333-11343	3.9	59
677	Experimental and theoretical study on the β -FeOOH nanorods: growth and conversion. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3961-3974	2.3	59
676	Computational Study of Flow Regimes in Vertical Pneumatic Conveying. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 6846-6858	3.9	59
675	Segregation of binary mixture of particles in a bladed mixer. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 187-193	3.5	59
674	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	8.5	58
673	Experiment and Theoretical Study of Poly(vinyl pyrrolidone)-controlled Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15656-15664	3.8	58
672	CFD-DEM modeling of gas fluidization of fine ellipsoidal particles. <i>AIChE Journal</i> , 2016 , 62, 62-77	3.6	58
671	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	6.7	57
670	Micromechanic modeling and analysis of the flow regimes in horizontal pneumatic conveying. <i>AIChE Journal</i> , 2011 , 57, 2708-2725	3.6	57
669	Numerical study of the packing of wet coarse uniform spheres. <i>AIChE Journal</i> , 2003 , 49, 1656-1666	3.6	57

668	DEM simulation on the packing of fine ellipsoids. <i>Chemical Engineering Science</i> , 2016 , 156, 64-76	4.4	56
667	Ab initio study of phase stability in doped TiO ₂ . <i>Computational Mechanics</i> , 2012 , 50, 185-194	4	56
666	Prediction of the porosity of multi-component mixtures of cohesive and non-cohesive particles. <i>Chemical Engineering Science</i> , 2011 , 66, 4711-4721	4.4	56
665	Effect of liquid addition on the packing of mono-sized coarse spheres. <i>Powder Technology</i> , 1998 , 99, 22-28	5.2	56
664	Hydrogen generation from a catalytic water gas shift reaction under microwave irradiation. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4789-4797	6.7	56
663	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	6.7	56
662	DEM simulation of cubical particle packing under mechanical vibration. <i>Powder Technology</i> , 2017 , 314, 89-101	5.2	55
661	Numerical modelling of the gas flow through perforated plates. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 403-408	5.5	55
660	Computational investigation of the mechanisms of particle separation and fish-hook phenomenon in hydrocyclones. <i>AIChE Journal</i> , 2009 , 56, 1703-1715	3.6	55
659	Packing of Ternary Mixtures of Nonspherical Particles. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2765-2772	3.8	55
658	Numerical study of horizontal pneumatic conveying: Effect of material properties. <i>Powder Technology</i> , 2014 , 251, 15-24	5.2	54
657	DEM-based virtual experimental blast furnace: A quasi-steady state model. <i>Powder Technology</i> , 2017 , 314, 557-566	5.2	53
656	Coordination Number of the Packing of Ternary Mixtures of Spheres: DEM Simulations versus Measurements. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8773-8785	3.9	53
655	Modeling the Multiphase Flow in a Dense Medium Cyclone. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3628-3639	3.9	53
654	Steady-state granular flow in a three-dimensional cylindrical hopper with flat bottom: microscopic analysis. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 1497-1508	3	53
653	A study of the packing of particles with a mixture size distribution. <i>Powder Technology</i> , 1993 , 76, 113-124	4.2	53
652	Large-surface mesoporous TiO ₂ nanoparticles: synthesis, growth and photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2012 , 387, 74-83	9.3	52
651	Experimental study on the packing of uniform spheres under three-dimensional vibration. <i>Powder Technology</i> , 2011 , 208, 617-622	5.2	52

650	Discrete element simulation for pneumatic conveying of granular material. <i>AIChE Journal</i> , 2006 , 52, 496-509	5.0	52
649	CFD-DEM modelling of particle flow in IsaMills II: Comparison between simulations and PEPT measurements. <i>Minerals Engineering</i> , 2011 , 24, 181-187	4.9	51
648	Numerical Investigation of the Transient Multiphase Flow in an Ironmaking Blast Furnace. <i>ISIJ International</i> , 2010 , 50, 515-523	1.7	51
647	Agglomeration of fine particles subjected to centripetal compaction. <i>Powder Technology</i> , 2008 , 184, 122-129	5.2	51
646	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	3.9	51
645	Experimental and theoretical studies of V ₂ O ₅ @TiO ₂ core-shell hybrid composites with high gas sensing performance towards ammonia. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 103-115	8.5	50
644	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	2.5	50
643	A facile coating method to construct uniform porous Fe ₂ O ₃ @TiO ₂ core-shell nanostructures with enhanced solar light photocatalytic activity. <i>Powder Technology</i> , 2018 , 328, 389-396	5.2	50
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58	Mixing behaviour of cohesive and non-cohesive particle mixtures in a ribbon mixer	2013,	1
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