

Aibing Yu

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.

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	Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	9
810	Numerical studies of mixing of ellipsoidal particles in a bladed mixer. <i>Powder Technology</i> , 2022 , 398, 117065	5.2	3
809	Numerical Analysis of Effects of Specularity Coefficient and Restitution Coefficient on the Hydrodynamics of Particles in a Rotating Drum. <i>Processes</i> , 2022 , 10, 167	2.9	0
808	Simple controllable foam structure NiCo2S4 for high-performance hybrid supercapacitors. <i>Journal of Energy Storage</i> , 2022 , 46, 103907	7.8	0
807	Powder deposition mechanism during powder spreading with different spreader geometries in powder bed fusion additive manufacturing. <i>Powder Technology</i> , 2022 , 395, 802-810	5.2	4
806	Numerical investigation of non-uniform sand retention behavior in sand screens. <i>Powder Technology</i> , 2022 , 395, 604-617	5.2	1
805	Modelling the co-firing of coal and biomass in a 10 kWth oxy-fuel fluidized bed. <i>Powder Technology</i> , 2022 , 395, 43-59	5.2	2
804	Numerical investigation of separation efficiency of the cyclone with supercritical fluid-solid flow. <i>Particuology</i> , 2022 , 62, 36-46	2.8	3
803	Numerical study on the momentum and heat transfer of porous spheroids under laminar flow. <i>Powder Technology</i> , 2022 , 395, 14-25	5.2	1
802	Discrete particle simulation for mixing of granular materials in ribbon mixers: A scale-up study. <i>Powder Technology</i> , 2022 , 400, 117222	5.2	1
801	A design method of hopper shape optimization with improved mass flow pattern and reduced particle segregation. <i>Chemical Engineering Science</i> , 2022 , 253, 117579	4.4	1
800	Optimization of pulverized coal injection (PCI) rate in an ironmaking blast furnace by an integrated process model. <i>Fuel</i> , 2022 , 315, 122832	7.1	0
799	Scaling up studies for mixing of granular materials in rotating drums. <i>Powder Technology</i> , 2022 , 117408	5.2	0
798	Numerical modeling and analysis of hydrogen blast furnace ironmaking process. <i>Fuel</i> , 2022 , 323, 124368	7.1	0
797	CFD-DEM evaluation of screen types for sand control applications. <i>Powder Technology</i> , 2022 , 117496	5.2	0
796	Melt pool dynamics and pores formation in multi-track studies in laser powder bed fusion process. <i>Powder Technology</i> , 2022 , 405, 117533	5.2	0
795	Co-firing of coal and biomass under pressurized oxy-fuel combustion mode: Experimental test in a 10 kWth fluidized bed. <i>Chemical Engineering Journal</i> , 2021 , 133457	14.7	5

794	Experimental investigation of the leak-off effect on proppant transportation and distribution in a vertical fracture. <i>Journal of Natural Gas Science and Engineering</i> , 2021 , 97, 104358	4.6	1
793	Particle-scale study of coke combustion in the raceway of an ironmaking blast furnace. <i>Fuel</i> , 2021 , 311, 122490	7.1	1
792	Numerical investigation on the scale-up rules of a supercritical water fluidized bed reactor using the two-fluid model. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1830-1842	4.5	1
791	Tip-Viscid Electrohydrodynamic Jet 3D Printing of Composite Osteochondral Scaffold. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
790	Silkworm-inspired electrohydrodynamic jet 3D printing of composite scaffold with ordered cell scale fibers for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2021 , 172, 124-132	7.9	4
789	GPU-based DEM simulation for scale-up of bladed mixers. <i>Powder Technology</i> , 2021 , 382, 300-317	5.2	12
788	Ambient air quantity and cutting performances of water-based Fe ₃ O ₄ nanofluid in magnetic minimum quantity lubrication. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 115, 1711	3.2	3
787	Particle shape-induced axial segregation of binary mixtures of spheres and ellipsoids in a rotating drum. <i>Chemical Engineering Science</i> , 2021 , 235, 116491	4.4	5
786	Particle-pore scale modelling of particle-fluid flows. <i>Chemical Engineering Science</i> , 2021 , 235, 116500	4.4	3
785	Effects of spreader geometry on powder spreading process in powder bed additive manufacturing. <i>Powder Technology</i> , 2021 , 384, 211-222	5.2	20
784	Dynamic analysis of poured packing process of ellipsoidal particles. <i>Powder Technology</i> , 2021 , 385, 444-454	4.5	2
783	Numerical Simulation of 3D Asymmetric Inner States of an Ironmaking Blast Furnace Resulting from Tuyere Closure. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 2642	2.5	2
782	Numerical investigation of oxygen-enriched operations in blast furnace ironmaking. <i>Fuel</i> , 2021 , 296, 120662	6.2	8
781	Tunable syngas production from two-stage sorption-enhanced steam gasification of sewage sludge. <i>Chemical Engineering Journal</i> , 2021 , 404, 126069	14.7	16
780	Numerical investigation of deposition mechanism in three mouth-throat models. <i>Powder Technology</i> , 2021 , 378, 724-735	5.2	6
779	CFD Modeling and Analysis of Particle Size Reduction and Its Effect on Blast Furnace Ironmaking. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 138-155	2.5	8
778	Visual lab tests: Proppant transportation in a 3D printed vertical hydraulic fracture with two-sided rough surfaces. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 196, 107738	4.4	10
777	CFD-DEM study of particle-fluid flow and retention performance of sand screen. <i>Powder Technology</i> , 2021 , 378, 410-420	5.2	11

776	Experimental tests on co-firing coal and biomass waste fuels in a fluidised bed under oxy-fuel combustion. <i>Fuel</i> , 2021 , 286, 119312	7.1	23
775	Continuum modelling of granular segregation by coupling flow rheology and transport equation. <i>Powder Technology</i> , 2021 , 378, 371-387	5.2	4
774	Computational simulation of air-side heat transfer and pressure drop performance in staggered mannered twisted oval tube bundle operating in crossflow. <i>International Journal of Thermal Sciences</i> , 2021 , 161, 106748	4.1	17
773	How stars are packed in the universe: A comparison with sphere packing. <i>Powder Technology</i> , 2021 , 381, 224-228	5.2	0
772	Synthesis of tetragonal BaTiO ₃ nano-particle via a novel tartaric acid co-precipitation process. <i>Ceramics International</i> , 2021 , 47, 7263-7267	5.1	3
771	A three-phase model for simulation of heat transfer and melt pool behaviour in laser powder bed fusion process. <i>Powder Technology</i> , 2021 , 381, 298-312	5.2	11
770	Optimised curved hoppers with maximum mass discharge rate in an experimental study. <i>Powder Technology</i> , 2021 , 377, 350-360	5.2	6
769	Effect of vibration mode on self-assembly of granular spheres under three-dimensional vibration. <i>Powder Technology</i> , 2021 , 380, 47-58	5.2	1
768	Size segregation of granular materials during Paul-Wurth hopper charging and discharging process. <i>Powder Technology</i> , 2021 , 378, 497-509	5.2	1
767	The effect of rotation speed and mixer size on granular flow and mixing in bladed mixers. <i>EPJ Web of Conferences</i> , 2021 , 249, 03036	0.3	2
766	Numerical Simulation of the Pilot-Scale High-Density Circulating Fluidized Bed Riser. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3184-3197	3.9	7
765	Experimental study on conveying characteristics of a novel top-discharge blow tank for fine cohesive powders. <i>Powder Technology</i> , 2021 , 379, 335-344	5.2	2
764	An assessment of the mathematical models for estimating the coordination number of the packing of multisized particles. <i>Powder Technology</i> , 2021 , 379, 58-68	5.2	0
763	A combined data-driven and discrete modelling approach to predict particle flow in rotating drums. <i>Chemical Engineering Science</i> , 2021 , 231, 116251	4.4	2
762	Effect of magnetic field on tribological performance of laser dimple textured surface. <i>Wear</i> , 2021 , 468-469, 203584	3.5	1
761	On the relationships between structural properties and packing density of uniform spheres. <i>Powder Technology</i> , 2021 , 388, 139-148	5.2	1
760	Sandwich-Like Gelatin/Polycaprolactone/Polyvinyl Pyrrolidone 3D Model with Significantly Improved Cartilage Cells Adhesion and Regeneration. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100338	3.9	0
759	Numerical investigation on effect of particle aspect ratio on the dynamical behaviour of ellipsoidal particle flow. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	1

758	Process simulation on atomization and evaporation of desulfurization wastewater and its application. <i>Powder Technology</i> , 2021 , 389, 178-188	5.2	7
757	Numerical prediction on the minimum fluidization velocity of a supercritical water fluidized bed reactor: Effect of particle size distributions. <i>Powder Technology</i> , 2021 , 389, 119-130	5.2	11
756	Numerical simulation of solid flow and segregation in a blast furnace by coupling granular rheology and transport equation. <i>Chemical Engineering Science</i> , 2021 , 242, 116741	4.4	1
755	Facile one-step synthesis of 0D to 3D VOx nanostructures for energy storage. <i>Electrochimica Acta</i> , 2021 , 392, 139021	6.7	1
754	CFD-DEM analysis of hydraulic conveying bends: Interaction between pipe orientation and flow regime. <i>Powder Technology</i> , 2021 , 392, 619-631	5.2	7
753	ANN prediction of particle flow characteristics in a drum based on synthetic acoustic signals from DEM simulations. <i>Chemical Engineering Science</i> , 2021 , 246, 117012	4.4	1
752	A new correlation for heat transfer in particle-fluid beds. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 181, 121844	4.9	2
751	Low-temperature electrostatic precipitator with different electrode configurations under various operation conditions. <i>Powder Technology</i> , 2021 , 394, 1178-1185	5.2	0
750	Feeding spent coffee grounds into reactors: TFM simulation of a non-mechanical spouted bed type feeder. <i>Waste Management</i> , 2020 , 109, 161-170	8.6	5
749	Lattice Boltzmann investigation on fluid flows through packed beds: Interaction between fluid rheology and bed properties. <i>Powder Technology</i> , 2020 , 369, 248-260	5.2	11
748	Experimental Studies on the Emission of Gaseous Pollutants in an Oxy-Fuel-Fluidized Bed with the Cofiring of Coal and Biomass Waste Fuels. <i>Energy & Fuels</i> , 2020 , 34, 7373-7387	4.1	4
747	Study on scale-up characteristics of oxy-fuel combustion in circulating fluidized bed boiler by 3D CFD simulation. <i>Advanced Powder Technology</i> , 2020 , 31, 2136-2151	4.6	10
746	A Transient Discrete Element Method-Based Virtual Experimental Blast Furnace Model. <i>Steel Research International</i> , 2020 , 91, 2000071	1.6	6
745	Preparation of tetragonal barium titanate nanopowders by microwave solid-state synthesis. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	3
744	PR-DNS on the momentum and heat transfer of a rotating ellipsoidal particle in a fluid. <i>Powder Technology</i> , 2020 , 373, 152-163	5.2	7
743	Three-dimensional simulation of the co-firing of coal and biomass in an oxy-fuel fluidized bed. <i>Powder Technology</i> , 2020 , 373, 522-534	5.2	10
742	Linking discrete particle simulation to continuum properties of the gas fluidization of cohesive particles. <i>AIChE Journal</i> , 2020 , 66, e16944	3.6	3
741	Minimum fluidization velocity of particles with different size distributions at elevated pressures and temperatures. <i>Chemical Engineering Science</i> , 2020 , 216, 115555	4.4	18

740	A process scaling approach for CFD-DEM modelling of thermochemical behaviours in moving bed reactors. <i>Fuel Processing Technology</i> , 2020 , 202, 106369	7.2	11
739	Preparation and properties of high-density Bi ₂ O ₃ ceramics by cold sintering. <i>Ceramics International</i> , 2020 , 46, 13848-13853	5.1	2
738	Monodispersed spherical Y ₂ O ₃ and Y ₂ O ₃ :Eu ³⁺ particles synthesized from modified homogeneous urea precipitation process. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154562	5.7	5
737	Statistical analysis of monodispersed coarse particle motion in a gas-fluidized bed. <i>Powder Technology</i> , 2020 , 363, 107-111	5.2	3
736	Numerical study on the erosion process of the low temperature economizer using computational fluid dynamics-discrete particle method. <i>Wear</i> , 2020 , 450-451, 203269	3.5	6
735	A Numerical Investigation of the Effect of Dust Layer on Particle Migration in an Electrostatic Precipitator. <i>Aerosol and Air Quality Research</i> , 2020 , 20, 166-179	4.6	6
734	CFD-DEM Simulation of Large-Scale Dilute-Phase Pneumatic Conveying System. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4150-4160	3.9	17
733	Reactive force field molecular dynamics (ReaxFF MD) simulation of coal oxy-fuel combustion. <i>Powder Technology</i> , 2020 , 361, 337-348	5.2	17
732	Experimental and numerical investigation on the packing of binary mixtures of spheres and ellipsoids. <i>Powder Technology</i> , 2020 , 360, 1210-1219	5.2	5
731	Highly (4 0 0) preferential ITO thin film prepared by DC sputtering with excellent conductivity and infrared reflectivity. <i>Materials Letters</i> , 2020 , 260, 126735	3.3	6
730	Smart Thermal Management Textiles with Anisotropic and Thermoresponsive Electrical Conductivity. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900599	6.8	8
729	DEM simulation of the packing of cylindrical particles. <i>Granular Matter</i> , 2020 , 22, 1	2.6	11
728	Capillary forces on wet particles with a liquid bridge transition from convex to concave. <i>Powder Technology</i> , 2020 , 363, 59-73	5.2	16
727	Adhesion effects on spreading of metal powders in selective laser melting. <i>Powder Technology</i> , 2020 , 363, 602-610	5.2	32
726	Effect of van der Waals force on bubble dynamics in bubbling fluidized beds of ellipsoidal particles. <i>Chemical Engineering Science</i> , 2020 , 212, 115343	4.4	12
725	CFD-DEM study of air entrainment in falling particle plumes. <i>Powder Technology</i> , 2020 , 361, 836-848	5.2	10
724	Particle velocity distribution function around a single bubble in gas-solid fluidized beds. <i>Powder Technology</i> , 2020 , 361, 33-44	5.2	4
723	Feeding spent coffee ground powders with a non-mechanical L-valve: Experimental analysis and TFM simulation. <i>Powder Technology</i> , 2020 , 360, 1055-1066	5.2	5

722	An experimental study of packing of ellipsoids under vibrations. <i>Powder Technology</i> , 2020 , 361, 45-51	5.2	7
721	Design of adjustable chip breaker for PCD turning tools. <i>International Journal of Mechanical Sciences</i> , 2020 , 172, 105411	5.5	3
720	The preparation of high-density aluminum-doped zinc oxide ceramics by cold sintering process. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 153241	5.7	2
719	Three-Dimensional Modeling of an Ironmaking Blast Furnace with a Layered Cohesive Zone. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 258-275	2.5	15
718	Continuum modelling of primary and secondary granular flows in a torsional shear cell. <i>Powder Technology</i> , 2020 , 361, 10-20	5.2	2
717	Study on preparation of LSTP thin film electrolyte by RF magnetron sputtering and electrical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 542-547	2.1	3
716	Comparison of different drag models in CFD-DEM simulations of spouted beds. <i>Powder Technology</i> , 2020 , 360, 1253-1270	5.2	17
715	Wall stress analysis in an unsteady hopper flow with ellipsoidal particles. <i>Powder Technology</i> , 2020 , 361, 1-9	5.2	5
714	Cobalt-Nickel sulfide nanosheets modified by nitrogen-doped porous reduced graphene oxide as high-conductivity cathode materials for supercapacitor. <i>Electrochimica Acta</i> , 2020 , 362, 137156	6.7	16
713	Tribological properties of bronze surface with dimple textures fabricated by the indentation method. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2020 , 234, 1680-1694	1.4	4
712	Modeling and analysis of flow regimes in hydraulic conveying of coarse particles. <i>Powder Technology</i> , 2020 , 373, 543-554	5.2	17
711	A Discrete Element Method Study of Monodisperse Mixing of Ellipsoidal Particles in a Rotating Drum. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12458-12470	3.9	8
710	An Integrated Mathematical Model for Ironmaking Blast Furnace. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 2211-2229	2.5	5
709	High-performance asymmetrical hybrid supercapacitor based on yolk-shell Ni ₃ P nanoparticles constructed by selective etching. <i>Electrochimica Acta</i> , 2020 , 357, 136875	6.7	8
708	Mesoporous Materials for Electrochemical Energy Storage and Conversion. <i>Advanced Energy Materials</i> , 2020 , 10, 2002152	21.8	65
707	Discrete particle simulation of heterogeneous gas-solid flows in riser and downer reactors. <i>Powder Technology</i> , 2020 , 375, 221-232	5.2	12
706	Ni-Cu bimetallic catalysts on Yttria-stabilized zirconia for hydrogen production from ethanol steam reforming. <i>Fuel</i> , 2020 , 280, 118612	7.1	14
705	Supercapacitive performance of nitrogen doped porous carbon based material for supercapacitor application. <i>Journal of Chemical Sciences</i> , 2020 , 132, 1	1.8	

704	Effect of packing method on packing formation and the correlation between packing density and interparticle force. <i>Particuology</i> , 2020 , 48, 170-181	2.8	4
703	CFD-DEM modelling and simulation of pneumatic conveying: A review. <i>Powder Technology</i> , 2020 , 365, 186-207	5.2	80
702	Simulation of desulphurization wastewater evaporation through flue gas. <i>Powder Technology</i> , 2020 , 361, 462-472	5.2	10
701	Evaluation of effective thermal conductivity in random packed bed: Heat transfer through fluid voids and effect of packing structure. <i>Powder Technology</i> , 2020 , 361, 326-336	5.2	13
700	Shape optimization of conical hoppers to increase mass discharging rate. <i>Powder Technology</i> , 2020 , 361, 179-189	5.2	13
699	CFD-DEM study of the effects of food grain properties on drying and shrinkage in a fluidised bed. <i>Powder Technology</i> , 2020 , 360, 33-42	5.2	13
698	Promote cohesive solid flow in a screw feeder with new screw designs. <i>Powder Technology</i> , 2020 , 361, 248-257	5.2	5
697	Numerical simulation of dense-phase pneumatic transport of powder in horizontal pipes. <i>Powder Technology</i> , 2020 , 361, 62-73	5.2	9
696	Improving the wear resistance of PTFE-based friction material used in ultrasonic motors by laser surface texturing. <i>Tribology International</i> , 2020 , 141, 105910	4.9	19
695	Particle shape effects on dynamic behaviors in a spouted bed: CFD-DEM study. <i>Powder Technology</i> , 2020 , 361, 349-362	5.2	24
694	Orientation of spheroidal particles in single jet bubbling fluidized beds. <i>Powder Technology</i> , 2020 , 361, 363-373	5.2	10
693	DEM study on the packing density and randomness for packing of ellipsoids. <i>Powder Technology</i> , 2020 , 361, 424-434	5.2	11
692	Segregation of granular binary mixtures with large particle size ratios during hopper discharging process. <i>Powder Technology</i> , 2020 , 361, 435-445	5.2	11
691	Holey Assembly of Two-Dimensional Iron-Doped Nickel-Cobalt Layered Double Hydroxide Nanosheets for Energy Conversion Application. <i>ChemSusChem</i> , 2020 , 13, 1645-1655	8.3	37
690	CFD-DEM modelling of mixing of granular materials in multiple jets fluidized beds. <i>Powder Technology</i> , 2020 , 361, 315-325	5.2	8
689	Application of GPU-DEM simulation on large-scale granular handling and processing in ironmaking related industries. <i>Powder Technology</i> , 2020 , 361, 258-273	5.2	16
688	Numerical simulation of particle migration in electrostatic precipitator with different electrode configurations. <i>Powder Technology</i> , 2020 , 361, 238-247	5.2	7
687	Computational Study of Gas-Solid Flow in a Horizontal Stepped Pipeline. <i>Mathematical Problems in Engineering</i> , 2019 , 2019, 1-15	1.1	1

686	110th Anniversary: Continuum Modeling of Granular Mixing in a Rotating Drum. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19251-19262	3.9	8
685	Radial segregation of binary-sized ellipsoids in a rotating drum. <i>Powder Technology</i> , 2019 , 357, 322-330	5.2	6
684	Co-firing of coal and biomass in oxy-fuel fluidized bed for CO ₂ capture: A review of recent advances. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 2261-2272	3.2	31
683	Enhanced gas sensing performance based on the fabrication of polycrystalline Ag@TiO ₂ core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2019 , 286, 483-492	8.5	43
682	CFD-DEM modelling of mixing and segregation of binary mixtures of ellipsoidal particles in liquid fluidizations. <i>Journal of Hydrodynamics</i> , 2019 , 31, 1190-1203	3.3	6
681	Impact energy dissipation study in a simulated ship loading process. <i>Powder Technology</i> , 2019 , 354, 476-484	3.4	3
680	Tribological properties of hybrid surface textured GCr15 steel filled by epoxy resin-based material under dry friction. <i>Surface Topography: Metrology and Properties</i> , 2019 , 7, 025018	1.5	3
679	Numerical simulation of electrostatic precipitator considering the dust particle space charge. <i>Powder Technology</i> , 2019 , 354, 552-560	5.2	15
678	How to generate valid local quantities of particle-fluid flows for establishing constitutive relations. <i>AIChE Journal</i> , 2019 , 65, e16690	3.6	15
677	Preparation of high density ZnO ceramics by the Cold Sintering Process. <i>Ceramics International</i> , 2019 , 45, 17382-17386	5.1	12
676	Review of clothing for thermal management with advanced materials. <i>Cellulose</i> , 2019 , 26, 6415-6448	5.5	41
675	Flow regimes of cohesionless ellipsoidal particles in a rotating drum. <i>Powder Technology</i> , 2019 , 354, 174-187	5.1	15
674	Numerical investigation of burden distribution in ironmaking blast furnace. <i>Powder Technology</i> , 2019 , 353, 385-397	5.2	21
673	Finite element analysis of briquetting of iron ore fines. <i>Powder Technology</i> , 2019 , 353, 398-408	5.2	1
672	Effects of particle characteristics and consolidation pressure on the compaction of non-spherical particles. <i>Minerals Engineering</i> , 2019 , 137, 241-249	4.9	7
671	Oxy-fuel combustion behaviors in a fluidized bed: A combined experimental and numerical study. <i>Powder Technology</i> , 2019 , 349, 40-51	5.2	16
670	Three-dimensional simulation of oxy-fuel combustion in a circulating fluidized bed. <i>Powder Technology</i> , 2019 , 351, 16-27	5.2	14
669	Preparation of indium tin oxide (ITO) thin film with (400) preferred orientation by sol-gel spin coating method. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8047-8054	2.1	15

668	Particle shape effect on bubble dynamics in central air jet pseudo-2D fluidized beds: A CFD-DEM study. <i>Chemical Engineering Science</i> , 2019 , 201, 448-466	4.4	30
667	Pore-Scale Study of Fluid Flow and Drag Force in Randomly Packed Beds of Different Porosities. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5041-5053	3.9	7
666	CFD simulation of dilute-phase pneumatic conveying of powders. <i>Powder Technology</i> , 2019 , 349, 70-83	5.2	21
665	Determination of minimum fluidization velocity in fluidized bed at elevated pressures and temperatures using CFD simulations. <i>Powder Technology</i> , 2019 , 350, 81-90	5.2	19
664	Quantitative comparison of hydrodynamic and elastoplastic approaches for modeling granular flow in silo. <i>AIChE Journal</i> , 2019 , 65, e16533	3.6	14
663	Fabrication of Nanopillar Crystalline ITO Thin Films with High Transmittance and IR Reflectance by RF Magnetron Sputtering. <i>Materials</i> , 2019 , 12,	3.5	7
662	Numerical Investigation of Hydrocyclone Feed Inlet Configurations for Mitigating Particle Misplacement. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16823-16833	3.9	16
661	Computational investigation of dust mite allergens in a realistic human nasal cavity. <i>Inhalation Toxicology</i> , 2019 , 31, 224-235	2.7	19
660	The Comparative Effect of Particle Size and Support Acidity on Hydrogenation of Aromatic Ketones. <i>ChemCatChem</i> , 2019 , 11, 4810-4817	5.2	11
659	Three-dimensional MPFEM modelling on isostatic pressing and solid phase sintering of tungsten powders. <i>Powder Technology</i> , 2019 , 354, 854-866	5.2	7
658	Bubble dynamics in bubbling fluidized beds of ellipsoidal particles. <i>AIChE Journal</i> , 2019 , 65, e16736	3.6	11
657	CFD-DEM modelling of hydraulic conveying of solid particles in a vertical pipe. <i>Powder Technology</i> , 2019 , 354, 893-905	5.2	34
656	Design of assembled substrate of electroplated diamond grinding wheel for disassembly of abrasive layer. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	1
655	Simulation of coal pressurized pyrolysis process in an industrial-scale spout-fluid bed reactor. <i>Advanced Powder Technology</i> , 2019 , 30, 3135-3145	4.6	8
654	Particle conveying under microgravity in a vibrating vessel. <i>Advanced Powder Technology</i> , 2019 , 30, 3163-3170	4.1	1
653	Flow and force analysis on the formation of expanded beds in gas fluidization of fine ellipsoids. <i>Powder Technology</i> , 2019 , 357, 291-304	5.2	1
652	CsxWO ₃ nanosheet-coated cotton fabric with multiple functions: UV/NIR shielding and full-spectrum-responsive self-cleaning. <i>Applied Surface Science</i> , 2019 , 475, 325-333	6.7	27
651	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

650	Lattice Boltzmann investigation of non-Newtonian fluid flow through a packed bed of uniform spheres. <i>Powder Technology</i> , 2019 , 343, 225-236	5.2	19
649	Modeling of the variations of permeate flux, concentration polarization, and solute rejection in nanofiltration system. <i>AIChE Journal</i> , 2019 , 65, 1076-1087	3.6	11
648	Particle scale modelling of mixing of ellipsoids and spheres in gas-fluidized beds by a modified drag correlation. <i>Powder Technology</i> , 2019 , 343, 619-628	5.2	12
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375	Effect of gravity on particle dispersion in a horizontally vibrating bed 2013 ,		2
374	Mixing behaviour of cohesive and non-cohesive particle mixtures in a ribbon mixer 2013 ,		1
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