

Jesse Zhu

List of Publications by Year in descending order

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papers

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docs citations

431
times ranked

8658
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamics of a bubble-induced inverse fluidized bed reactor with a nanobubble tray. <i>Particuology</i> , 2023, 73, 8-16.	2.0	2
2	Comparison of carrier particles in the gas-liquid-solid inverse fluidised bed bioreactor. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 3507-3518.	1.2	1
3	A modified wake model in bubble-induced three-phase inverse fluidized bed (BIFB). <i>Particuology</i> , 2022, 65, 133-138.	2.0	2
4	Experimental study on reactor performance of gas-solids low-velocity fluidized beds. <i>Particuology</i> , 2022, 66, 21-28.	2.0	5
5	Comparison of hydrodynamics in a gas-solids fluidized bed with binary particle systems for dry coal beneficiation. <i>Chemical Engineering Science</i> , 2022, 247, 117028.	1.9	5
6	Hydrodynamics of inverse liquid-solid circulating fluidized bed. <i>Chemical Engineering Science</i> , 2022, 248, 117187.	1.9	7
7	Cluster Identification by a <i>k</i> -means Algorithm-Assisted Imaging Method in a Laboratory-Scale Circulating Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 942-956.	1.8	10
8	Comparisons of particle clustering phenomenon between gas-solids high-density and low-density circulating fluidized bed risers via numerical study. <i>Powder Technology</i> , 2022, 397, 117009.	2.1	4
9	Application of a novel electrostatic dry powder coating technology on capsules for enteric release. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 68, 103058.	1.4	2
10	Hydrodynamics of an inverse liquid-solid circulating conventional fluidized bed. <i>AIChE Journal</i> , 2022, 68, .	1.8	3
11	An investigation into the effect of particle size distribution on the fluidization behavior of Group C and Group A particles. <i>Powder Technology</i> , 2022, 398, 117142.	2.1	6
12	The future of dry powder inhaled therapy: Promising or discouraging for systemic disorders?. <i>International Journal of Pharmaceutics</i> , 2022, 614, 121457.	2.6	35
13	Characterization of countercurrent liquid-upward and solid-downward fluidized system. <i>Particuology</i> , 2022, 70, 95-105.	2.0	1
14	Hydrodynamics in a new liquid-solid circulating conventional fluidized bed. <i>Particuology</i> , 2022, 70, 20-29.	2.0	1
15	Modified correlation for minimum fluidization velocity of low-density particles in inverse liquid-solid fluidized beds. <i>Particuology</i> , 2022, 71, 56-62.	2.0	3
16	A Comparative Study on the Anti-Corrosive Performance of Zinc Phosphate in Powder Coatings. <i>Coatings</i> , 2022, 12, 217.	1.2	8
17	Fabrication of Nano TiO ₂ -Polymer Encapsulated Fluorescent Pigments for Weatherability Improvement of Powder Coating. <i>Coatings</i> , 2022, 12, 315.	1.2	3
18	Bubble dynamics in gas-solid fluidized bed with Geldart A or Geldart B particles by image processing method. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 3588-3599.	0.9	3

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19	Nitrogen distribution in the products from the hydrothermal liquefaction of <i>Chlorella</i> sp. and <i>Spirulina</i> sp.. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 985-995.	2.3	4
20	Using wavelet analysis to characterize the transition from bubbling to turbulent fluidization. <i>Powder Technology</i> , 2022, 401, 117269.	2.1	5
21	Preliminary study on a counter-current bubble column near flooding point and an inverse gas-liquid-solid circulating fluidized bed. <i>Powder Technology</i> , 2022, 402, 117356.	2.1	0
22	Extrusion-free fabrication of zinc-rich powder coatings: Press bonding. <i>Chemical Engineering Journal</i> , 2022, 442, 135925.	6.6	8
23	Flow characteristics in a pilot-scale circulating fluidized bed with high solids flux up to 1800 kg/m ² s. <i>Powder Technology</i> , 2022, 405, 117542.	2.1	1
24	Hydrodynamic characteristics of a pilot-scale gas-driven inverse liquid-solid fluidized bed with a central draft tube. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, , 108999.	1.8	0
25	Comparison of flow dynamics and reactor performance in gas-solids circulating turbulent fluidized bed with other fluidized beds across regimes. <i>Chemical Engineering Journal</i> , 2022, 446, 137313.	6.6	7
26	Bubble dynamics in a binary Gas-Solid fluidization system of Geldart B and Geldart D particles. <i>Chemical Engineering Science</i> , 2022, 258, 117771.	1.9	4
27	Development of a novel silver ions-nanosilver complementary composite as antimicrobial additive for powder coating. <i>Chemical Engineering Journal</i> , 2021, 420, 127633.	6.6	36
28	Scale-up effects of the flow structure in bubbling and turbulent fluidized beds. <i>Powder Technology</i> , 2021, 379, 223-230.	2.1	11
29	A review on fluidization of Geldart Group C powders through nanoparticle modulation. <i>Powder Technology</i> , 2021, 381, 698-720.	2.1	21
30	Effects of internals and distributors on the distribution and growth of bubbles in the conventional gas-liquid-solid fluidized bed. <i>Particuology</i> , 2021, 55, 1-15.	2.0	9
31	Reaction performance of fluidized bed catalytic reactor of Group C+ particles. <i>Particuology</i> , 2021, 54, 5-16.	2.0	2
32	Enhanced fluidization of group A particles modulated by group C powder. <i>Powder Technology</i> , 2021, 377, 684-692.	2.1	12
33	A value-added step towards promoting the serviceability of fluidized bed bioreactor in treating wastewater with low carbon to nitrogen ratio. <i>Science of the Total Environment</i> , 2021, 750, 141665.	3.9	3
34	Hydrodynamics of a gas-driven inverse liquid-solid fluidized bed. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 1535-1545.	0.9	4
35	Decentralized wastewater treatment in an urban setting: a pilot study of the circulating fluidized bed bioreactor treating septic tank effluent. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1911-1921.	1.2	5
36	Particle Velocity Distribution and Its Prediction in a 14 m Two-Dimensional Circulating Fluidized Bed Riser. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1901-1911.	1.8	5

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37	Recent Progresses of Superhydrophobic Coatings in Different Application Fields: An Overview. Coatings, 2021, 11, 116.	1.2	67
38	The hydrodynamics of liquid-solid and gas-liquid-solid inverse fluidized beds with bioparticles. Advanced Powder Technology, 2021, 32, 254-265.	2.0	8
39	Prediction of Solid Holdup in a Gas-Solid Circulating Fluidized Bed Riser by Artificial Neural Networks. Industrial & Engineering Chemistry Research, 2021, 60, 3452-3462.	1.8	18
40	On the discrimination of particle clusters in circulating fluidized beds. Powder Technology, 2021, 379, 265-278.	2.1	11
41	Numerical investigation of hydrodynamics in liquid-solid circulating fluidized beds under different operating conditions. Advanced Powder Technology, 2021, 32, 1047-1059.	2.0	5
42	Development of multifunctional Si-Ca-PEG-nAg sol-gel implant coatings from calcium-2-ethoxyethoxide. Journal of Coatings Technology Research, 2021, 18, 1177-1189.	1.2	1
43	Produce various powder coated surfaces with stable metal shine via microwave energy. Progress in Organic Coatings, 2021, 154, 106199.	1.9	0
44	Fluidization stability vs. powder history of Geldart group C+ particles. Powder Technology, 2021, 384, 423-430.	2.1	2
45	Different bubble behaviors in gas-solid fluidized bed of Geldart group A and group C+ particles. Powder Technology, 2021, 384, 431-441.	2.1	12
46	Demarcation on a new conventional circulating fluidization regime in liquid-solids fluidization via experimental and numerical studies. Chemical Engineering Journal, 2021, 412, 128578.	6.6	4
47	Numerical investigations on gas-solid flow in circulating fluidized bed risers using a new cluster-based drag model. Particuology, 2021, 63, 9-9.	2.0	6
48	Studies on the local flow characteristics and flow regime transitions in a square fluidized bed. Powder Technology, 2021, 385, 306-316.	2.1	4
49	Operating regimes in circulating fluidized bed combustors: fast fluidization or bubbling-entrained bed?. Fuel, 2021, 297, 120727.	3.4	8
50	The circulating fluidized bed bioreactor as a biological nutrient removal process for municipal wastewater treatment: Process modelling and costing analysis. Journal of Environmental Management, 2021, 299, 113604.	3.8	4
51	A four-quadrant flow regime map for two-phase liquid-solids and gas-solids fluidization systems. Powder Technology, 2021, 394, 424-438.	2.1	9
52	Delayed sustained drug release from electrostatic powder coated tablets with ultrafine polymer blends. Powder Technology, 2021, 394, 496-503.	2.1	5
53	Solvent-Free Fabrication of Robust Superhydrophobic Powder Coatings. ACS Applied Materials & Interfaces, 2021, 13, 1323-1332.	4.0	33
54	A core-shell composite pigment with rutile TiO ₂ intensification for UV inhibition. Particuology, 2021, , .	2.0	1

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55	Experimental and numerical studies on a bubble-induced inverse gas-liquid-solids fluidized bed. <i>Advanced Powder Technology</i> , 2021, 32, 4496-4508.	2.0	5
56	On the basic hydrodynamics of inverse liquid-solid circulating fluidized bed downer. <i>Powder Technology</i> , 2020, 365, 74-82.	2.1	9
57	Wavelet denoising and nonlinear analysis of solids concentration signal in circulating fluidized bed riser. <i>Particuology</i> , 2020, 49, 105-116.	2.0	10
58	Experimental analysis of phase segregation in gas-solid circulating fluidized bed riser with direct image calibration. <i>Chemical Engineering Journal</i> , 2020, 379, 122301.	6.6	14
59	Review of (gas)-liquid-solid circulating fluidized beds as biochemical and environmental reactors. <i>Chemical Engineering Journal</i> , 2020, 386, 121951.	6.6	41
60	Improvement on flowability and fluidization of Group C particles after nanoparticle modification. <i>Powder Technology</i> , 2020, 365, 208-214.	2.1	29
61	Electrostatic powder coated osmotic pump tablets: Influence factors of coating powder adhesion and film formation. <i>Powder Technology</i> , 2020, 360, 444-451.	2.1	12
62	Identification of regime transition from bubbling to turbulent fluidization through dynamic phase tracking method. <i>Powder Technology</i> , 2020, 360, 534-548.	2.1	10
63	Fabrication of Ag ⁺ , Cu ²⁺ , and Zn ²⁺ Ternary Ion-Exchanged Zeolite as an Antimicrobial Agent in Powder Coating. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 751-762.	1.8	15
64	Group C+ particles: Extraordinary dense phase expansion during fluidization through nano-modulation. <i>Chemical Engineering Science</i> , 2020, 214, 115420.	1.9	16
65	Group C + particles: Efficiency augmentation of fluidized bed reactor through nano-modulation. <i>AIChE Journal</i> , 2020, 66, e16870.	1.8	12
66	Investigation of the Performance of Fumed Silica as Flow Additive in Polyester Powder Coatings. <i>Coatings</i> , 2020, 10, 977.	1.2	15
67	On the Two-Phase Theory of Group C ⁺ and Geldart Group A Particles. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12600-12609.	1.8	6
68	Experimental investigation of the instantaneous flow structure in circulating fluidized bed: Phase characterization and validation. <i>Chemical Engineering Science</i> , 2020, 228, 115946.	1.9	7
69	Prediction of dense phase voidage for group C+ fluidized bed reactor. <i>Chemical Engineering Journal</i> , 2020, 402, 126217.	6.6	14
70	Comparison of the flow structures and regime transitions between a cylindrical fluidized bed and a square fluidized bed. <i>Powder Technology</i> , 2020, 376, 507-516.	2.1	5
71	Protective effects of aerosolized pulmonary surfactant powder in a model of ventilator-induced lung injury. <i>International Journal of Pharmaceutics</i> , 2020, 583, 119359.	2.6	7
72	Mixing and segregation behavior in an air dense medium fluidized bed with binary mixtures for dry coal beneficiation. <i>Powder Technology</i> , 2020, 371, 161-169.	2.1	27

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73	A Comprehensive Characterization of Aggregative Flow in a Circulating Fluidized Bed (1): High-Density Riser. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10315-10327.	1.8	6
74	A Comprehensive Characterization of Aggregative Flow in a Circulating Fluidized Bed (2): High-Density Downer. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10622-10633.	1.8	2
75	Hydrodynamics of a gas-driven gas-liquid-solid spouted bed with a draft tube. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 2545-2556.	0.9	5
76	Numerical study on the hydrodynamics in high-density gas-solid circulating fluidized bed downer reactors. <i>Powder Technology</i> , 2020, 370, 184-196.	2.1	13
77	Development of Robust Chitosan-Silica Class II Hybrid Coatings with Antimicrobial Properties for Titanium Implants. <i>Coatings</i> , 2020, 10, 534.	1.2	14
78	The effect of gas properties on Group C+ fluidized bed reactor. <i>Chemical Engineering Journal</i> , 2020, 394, 125039.	6.6	7
79	Optimization for the Operational Parameters of the Partial Nitrification in a Fluidized Bed Bioreactor (PNFBR). <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	7
80	Preparation of aluminium metallic pigmented powder coatings with high color stability using a novel method: Microwave bonding. <i>Progress in Organic Coatings</i> , 2020, 147, 105787.	1.9	4
81	The axial and radial phase holdup distribution of bubble-induced three-phase inverse fluidized bed. <i>Chemical Engineering Science</i> , 2020, 219, 115586.	1.9	6
82	Performance and bacterial community structure of a novel inverse fluidized bed bioreactor (IFBBR) treating synthetic municipal wastewater. <i>Science of the Total Environment</i> , 2020, 718, 137288.	3.9	21
83	Quantitative Study of the Gas-Solids Flow and Its Heterogeneity/Nonuniformity in a 14 m Two-Dimensional CFB Riser Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 437-449.	1.8	3
84	Scale-up effect analysis and modeling of liquid-solid circulating fluidized bed risers using multigene genetic programming. <i>Particuology</i> , 2020, 52, 57-66.	2.0	6
85	Applying microwave energy to fabricate powder coatings with strong and stable metal shine. <i>Progress in Organic Coatings</i> , 2020, 149, 105929.	1.9	1
86	Moisture barrier films for herbal medicines fabricated by electrostatic dry coating with ultrafine powders. <i>Powder Technology</i> , 2020, 366, 701-708.	2.1	8
87	Tracking the Flow Dynamics in Circulating Fluidized Bed through High-Speed Photography. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17540-17548.	1.8	1
88	Group C+ particles: Enhanced flow and fluidization of fine powders with nano-modulation. <i>Chemical Engineering Science</i> , 2019, 207, 653-662.	1.9	40
89	Study on flow microstructure and scale-up effect in circulating fluidized bed riser using solids concentration signals. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2019, 14, e2348.	0.8	2
90	The distribution of bed density in an air dense medium fluidized bed with single and binary mixtures of Geldart B and/or D particles. <i>Minerals Engineering</i> , 2019, 142, 105926.	1.8	11

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91	Hydrodynamic characteristics of bubble-induced three-phase inverse fluidized bed (BIFB). <i>Chemical Engineering Science</i> , 2019, 209, 115177.	1.9	9
92	A value-added insight of reusing microplastic waste: Carrier particle in fluidized bed bioreactor for simultaneous carbon and nitrogen removal from septic wastewater. <i>Biochemical Engineering Journal</i> , 2019, 151, 107300.	1.8	14
93	A consolidated flow regime map of upward gas fluidization. <i>AIChE Journal</i> , 2019, 65, e16672.	1.8	35
94	On the two-phase theory of fluidization for Geldart B and D particles. <i>Powder Technology</i> , 2019, 354, 64-70.	2.1	14
95	Capturing the instantaneous flow structure in gas-solid circulating fluidized bed using high-speed imaging and fiber optic sensing. <i>Chemical Engineering Science</i> , 2019, 207, 713-724.	1.9	18
96	Minimum fluidization velocity of binary mixtures of medium particles in the Air Dense medium fluidized bed. <i>Chemical Engineering Science</i> , 2019, 207, 194-201.	1.9	36
97	Comparative Study of the Performances of Al(OH) ₃ and BaSO ₄ in Ultrafine Powder Coatings. <i>Processes</i> , 2019, 7, 316.	1.3	10
98	Development of a numerical model for the hydrodynamics simulation of liquid-solid circulating fluidized beds. <i>Powder Technology</i> , 2019, 348, 93-104.	2.1	22
99	Dry coal beneficiation by the semi-industrial Air Dense Medium Fluidized Bed with binary mixtures of magnetite and fine coal particles. <i>Fuel</i> , 2019, 243, 509-518.	3.4	27
100	Investigation of the Performance of ATH Powders in Organic Powder Coatings. <i>Coatings</i> , 2019, 9, 110.	1.2	9
101	Correlating the apparent viscosity with gas-solid suspension flow in straight pipelines. <i>Powder Technology</i> , 2019, 345, 346-351.	2.1	8
102	Performance Enhancement of Fluidized Bed Catalytic Reactors by Going to Finer Particles. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20173-20178.	1.8	8
103	Fabrication and analysis of antimicrobial additives for powder coated surface. <i>Progress in Organic Coatings</i> , 2019, 127, 308-318.	1.9	8
104	Minimum fluidization velocity growth due to bed inventory increase in an Air Dense Medium Fluidized Bed. <i>Chemical Engineering Journal</i> , 2019, 359, 1372-1378.	6.6	28
105	Comparison of liquid-solid flow characteristics in upward and downward circulating fluidized beds by CFD approach. <i>Chemical Engineering Science</i> , 2019, 196, 501-513.	1.9	17
106	Reducing comminution over-grinding of powder coatings with modified grinding pins in an air classifier mill. <i>Powder Technology</i> , 2019, 344, 36-45.	2.1	4
107	Method for Determining the Hydraulic-Retention Time and Operating Conditions of a Circulating-Fluidized-Bed Bioreactor with Composition Disturbances. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2113-2124.	1.8	0
108	Hydrodynamics of a bubble-driven liquid-solid fluidized bed. <i>Chemical Engineering Science</i> , 2019, 195, 730-736.	1.9	5

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109	Numerical study on liquid-solid flow characteristics in inverse circulating fluidized beds. <i>Advanced Powder Technology</i> , 2019, 30, 317-329.	2.0	11
110	Effective partial nitrification of ammonia in a fluidized bed bioreactor. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 94-101.	1.2	12
111	Mapping the Wall-Region Dynamics of High-Flux Gas-Solid Riser Using Scaling Regions from the Solid Concentration Time Series. <i>Engineering</i> , 2019, 11, 74-92.	0.4	0
112	CHAPTER 15. Green Chemistry for Automotive Coatings: Sustainable Applications. <i>RSC Green Chemistry</i> , 2019, , 368-394.	0.0	2
113	CHAPTER 16. Dry Powder Coating of Pharmaceutical Solid Dosages. <i>RSC Green Chemistry</i> , 2019, , 395-418.	0.0	0
114	Investigation of Entrance and Wall Dynamics of the High-Flux Gas-Solid Riser Using Statistical Analysis of Solids Concentration Signals. <i>Engineering</i> , 2019, 11, 167-187.	0.4	1
115	A rigorous model for the simulation of chemical reaction in gas-particle bubbling fluidized bed: II. Application to gas combustion case. <i>Powder Technology</i> , 2018, 327, 392-398.	2.1	6
116	Electrostatic coated controlled porosity osmotic pump with ultrafine powders. <i>Powder Technology</i> , 2018, 333, 71-77.	2.1	15
117	Simulation of chemical reaction process in gas-particle CFB downers by anisotropic turbulent mass transfer model. <i>Chemical Engineering Research and Design</i> , 2018, 132, 452-459.	2.7	3
118	A rigorous model for the simulation of chemical reaction in gas-particle bubbling fluidized bed: I. Modeling and validation. <i>Powder Technology</i> , 2018, 327, 399-407.	2.1	9
119	Anisotropic Turbulent Mass Transfer Model and Its Application to a Gas-Particle Bubbling Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1671-1678.	1.8	3
120	Effect of particle shape on the apparent viscosity of liquid-solid suspensions. <i>Powder Technology</i> , 2018, 328, 199-206.	2.1	35
121	A Multigene Genetic Programming approach for modeling effect of particle size in a liquid-solid circulating fluidized bed reactor. <i>Chemical Engineering Research and Design</i> , 2018, 134, 370-381.	2.7	6
122	Ash Deposition in Air-Blown Gasification of Peat and Woody Biomass in a Fluidized-Bed Gasifier. <i>Energy & Fuels</i> , 2018, 32, 6788-6796.	2.5	0
123	Dry powder coated osmotic drug delivery system. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 111, 383-392.	1.9	15
124	Cold Bonding Method for Metallic Powder Coatings. <i>Materials</i> , 2018, 11, 2086.	1.3	5
125	Estimation of the Unbiodegradable Fraction of Thickened Waste Activated Sludge. <i>Water Environment Research</i> , 2018, 90, 819-825.	1.3	0
126	A steady-state analysis method for optimal operation of dividing-wall column. <i>Computers and Chemical Engineering</i> , 2018, 119, 112-127.	2.0	7

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127	An update on electrostatic powder coating for pharmaceuticals. <i>Particuology</i> , 2017, 31, 1-7.	2.0	34
128	Fluidized-Bed Bioreactor Applications for Biological Wastewater Treatment: A Review of Research and Developments. <i>Engineering</i> , 2017, 3, 330-342.	3.2	90
129	Ultrasonically enhanced anaerobic digestion of thickened waste activated sludge using fluidized bed reactors. <i>Applied Energy</i> , 2017, 204, 807-818.	5.1	15
130	HCl post-processing BiOBr photocatalyst: structure, morphology, and composition and their impacts to activity. <i>RSC Advances</i> , 2017, 7, 50079-50086.	1.7	11
131	Magnetic nanoparticles for environmental and biomedical applications: A review. <i>Particuology</i> , 2017, 30, 1-14.	2.0	525
132	Human Mesenchymal Cell Attachment, Growth and Biomineralization on Calcium-enriched Titania-polyester Coatings. <i>AIMS Cell and Tissue Engineering</i> , 2017, 1, 64-83.	0.4	1
133	Emulsification Characteristics Using a Dynamic Woven Metal Microscreen Membrane. <i>Membranes</i> , 2016, 6, 34.	1.4	1
134	Bioaugmentation: An Emerging Strategy of Industrial Wastewater Treatment for Reuse and Discharge. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 846.	1.2	139
135	Epoxy resin-based ultrafine dry powder coatings for implants. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	15
136	Micropollutants removal from water using microfiltration membrane modified with ZIF-8 metal organic frameworks (MOFs). <i>Chemical Engineering Journal</i> , 2016, 300, 273-279.	6.6	78
137	Radial solids flow structure in high flux gas-solids circulating fluidized bed downers. <i>Powder Technology</i> , 2016, 301, 848-857.	2.1	9
138	Sustained drug release from electrostatic powder coated tablets with ultrafine ethylcellulose powders. <i>Advanced Powder Technology</i> , 2016, 27, 2145-2152.	2.0	19
139	Pre-treatment and conditioning of chabazites followed by functionalization for making suitable additives used in antimicrobial ultra-fine powder coated surfaces. <i>RSC Advances</i> , 2016, 6, 88340-88349.	1.7	6
140	Influence of production method, silicone type and thickness on silicon rubber superhydrophobic coatings. <i>Progress in Organic Coatings</i> , 2016, 90, 291-295.	1.9	33
141	Developments in the understanding of gas-solid contact efficiency in the circulating fluidized bed riser reactor: A review. <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 53-62.	1.7	22
142	Anaerobic fluidized bed digestion of primary and thickened waste activated sludges. <i>Chemical Engineering Journal</i> , 2016, 284, 620-629.	6.6	15
143	A comparison of flow development in high density gas-solids circulating fluidized bed downer and riser reactors. <i>AIChE Journal</i> , 2015, 61, 1172-1183.	1.8	34
144	Effects of Particle Size and Shape on Solids Holdups Distributions Modelling in a LSCFB Reactor using Abductive Network. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1686-1692.	0.9	4

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145	Novel Development of Biocompatible Coatings for Bone Implants. <i>Coatings</i> , 2015, 5, 737-757.	1.2	26
146	Cluster identification using image processing. <i>Particuology</i> , 2015, 23, 16-24.	2.0	24
147	Visualization of solids phase separation in a rectangular CFB riser using a novel image calibration method. <i>Powder Technology</i> , 2015, 273, 76-82.	2.1	16
148	Numerical simulation of counter-current flow field in the downcomer of a liquid-solid circulating fluidized bed. <i>Particuology</i> , 2015, 21, 48-54.	2.0	4
149	An Alternative Method to Quantify Solids Phase Separation in a Narrow Rectangular CFB Riser. <i>Procedia Engineering</i> , 2015, 102, 1064-1072.	1.2	2
150	Applying a novel electrostatic dry powder coating technology to pellets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 97, 118-124.	2.0	26
151	An anisotropic Reynolds mass flux model for the simulation of chemical reaction in gas-particle CFB risers. <i>Chemical Engineering Science</i> , 2015, 135, 117-127.	1.9	10
152	Nano-SiO ₂ Enriched Biocompatible Powder Coatings. <i>Materials Today: Proceedings</i> , 2015, 2, 147-152.	0.9	4
153	Axial solids flow structure in a high density gas-solid circulating fluidized bed downer. <i>Powder Technology</i> , 2015, 272, 153-164.	2.1	28
154	Performance evaluation of high density riser and downer: Experimental study using ozone decomposition. <i>Chemical Engineering Journal</i> , 2015, 262, 478-489.	6.6	25
155	An alternative method for mapping solids holdup in a narrow rectangular CFB riser through image calibration. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 2202-2210.	0.9	8
156	Catalytic Ozone Decomposition in a Gas-Solids Circulating Fluidized Bed Riser. <i>Chemical Engineering and Technology</i> , 2014, 37, 435-444.	0.9	9
157	Influence of biofilm thickness on nitrous oxide (N ₂ O) emissions from denitrifying fluidized bed bioreactors (DFBBRs). <i>Journal of Biotechnology</i> , 2014, 192, 281-290.	1.9	18
158	Effect of nanoclay on electrical and mechanical properties of polyurethane conductive coatings filled with nickel-coated carbon fibers. <i>Polymer Engineering and Science</i> , 2014, 54, 1120-1125.	1.5	4
159	CFD modelling of continuous protein extraction process using liquid-solid circulating fluidized beds. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 1911-1919.	0.9	10
160	Detailed measurements of particle velocity and solids flux in a high density circulating fluidized bed riser. <i>Chemical Engineering Science</i> , 2014, 114, 9-20.	1.9	37
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