

# Jamal Chaouki

## List of Publications by Year in descending order

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274  
papers

7,960  
citations

43973

48  
h-index

85405

71  
g-index

280  
all docs

280  
docs citations

280  
times ranked

4776  
citing authors

#	ARTICLE	IF	CITATIONS
1	A correlation for average droplet diameter in rotating packed beds. Canadian Journal of Chemical Engineering, 2023, 101, 160-171.	0.9	1
2	On the Investigation of the Thermal Degradation of Waste Printed Circuit Boards for Recycling Applications. Advanced Sustainable Systems, 2022, 6, 2100054.	2.7	8
3	Effect of particle angularity on flow regime transitions and segregation of bidisperse blends in a rotating drum. Computational Particle Mechanics, 2022, 9, 443-463.	1.5	6
4	Development of a novel silica-based microwave receptor for high temperature processes. Powder Technology, 2022, 399, 117180.	2.1	1
5	Combustion behaviour and reaction kinetics of GO/Al/oxidizing salts ternary nanothermites. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10245-10257.	2.0	3
6	Two-Phase flow characterization of a rotating packed bed through CFD simulation in OpenFOAM. Chemical Engineering Science, 2022, 253, 117589.	1.9	7
7	Microwave-assisted catalytic pyrolysis of paraffin wax. Fuel, 2022, 320, 123886.	3.4	15
8	Process development and techno-economic analysis of microwave-assisted demetallization and desulfurization of crude petroleum oil. Energy Reports, 2022, 8, 4373-4385.	2.5	7
9	Preface: Special issue of "Multiphase Flows in Process Engineering: Recent Experimental, Theoretical and Numerical Developments" International Journal of Chemical Reactor Engineering, 2022, 20, 385-385.	0.6	0
10	Experimental methods in chemical engineering: Optical fibre probes in multiphase systems. Canadian Journal of Chemical Engineering, 2022, 100, 2762-2777.	0.9	1
11	High-resolution simulation of oscillating bubble plumes in a square cross-sectioned bubble column with an unsteady $k\text{-}\mu$ model. Chemical Engineering Science, 2021, 231, 116321.	1.9	3
12	Impact of surface roughness on heat transfer through spherical particle packed beds. Chemical Engineering Science, 2021, 231, 116256.	1.9	13
13	In-situ quantification of the magnitude of interparticle forces and its temperature variation in a gas-solid fluidized bed. Chemical Engineering Science, 2021, 232, 116349.	1.9	10
14	Impact of granular segregation on heat transfer in horizontal drums. Chemical Engineering Journal, 2021, 409, 128039.	6.6	14
15	Dehydration of lithium dihydrogenphosphate in a ball mill rotary kiln ( $\text{BaMRoK}$ ) reactor. Canadian Journal of Chemical Engineering, 2021, 99, 667-679.	0.9	1
16	Synthesis and Characterization of Tertiary Nanothermite CNMs/Al/KClO <sub>4</sub> with Enhanced Combustion Characteristics. Propellants, Explosives, Pyrotechnics, 2021, 46, 995-1005.	1.0	7
17	Synthesis of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> negative electrode material in a fluidized bed thermogravimetric analyzer. Canadian Journal of Chemical Engineering, 2021, 99, 1836-1848.	0.9	1
18	Pulse-assisted fluidization of nanoparticles: Case of lithium iron phosphate material. Canadian Journal of Chemical Engineering, 2021, 99, 1824-1835.	0.9	0

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19	Kinetic study of calcination of a rare earth ore. Hydrometallurgy, 2021, 200, 105557.	1.8	3
20	Calibration of solids concentration optical fibre probes with solidsâ€”polymer blocks. Canadian Journal of Chemical Engineering, 2021, 99, 1627-1638.	0.9	2
21	<sc>CFDâ€”DEM</sc> analysis of the spouted fluidized bed with nonâ€”spherical particles. Canadian Journal of Chemical Engineering, 2021, 99, 2303-2319.	0.9	20
22	On the Volume of Fluid Simulation Details and Droplet Size Distribution inside Rotating Packed Beds. Industrial & Engineering Chemistry Research, 2021, 60, 8888-8900.	1.8	10
23	Electrification of materials processing via microwave irradiation: A review of mechanism and applications. Applied Thermal Engineering, 2021, 193, 117003.	3.0	50
24	A cleaner recovery of rare earth bearing minerals by Pickering emulsification: Improvement of processing conditions toward an economic operation. Journal of Environmental Chemical Engineering, 2021, 9, 105449.	3.3	2
25	Effect of pressure on the hydrodynamics of a pilotâ€”scale bubble column operating with low and moderate viscosity Newtonian liquids. Canadian Journal of Chemical Engineering, 2021, 99, 2320-2332.	0.9	1
26	Combustion characteristics of EMOFs/oxygenated salts novel thermite for green energetic applications. Thermochimica Acta, 2021, 704, 179019.	1.2	3
27	Superior performance of quaternary NC/GO/Al/KClO4 nanothermite for high speed impulse small-scale propulsion applications. Combustion and Flame, 2021, 232, 111527.	2.8	13
28	Effect of solid loading and particle size on the phase holdup distribution and bubble behaviour in a pilot-scale slurry bubble column. Chemical Engineering Science, 2021, 243, 116732.	1.9	10
29	Experimental methods in chemical engineering: Thermogravimetric analysisâ€”TGA. Canadian Journal of Chemical Engineering, 2020, 98, 34-43.	0.9	146
30	Simultaneous effect of particle size and solid concentration on the hydrodynamics of slurry bubble column reactors. AIChE Journal, 2020, 66, e16813.	1.8	24
31	Lethe: An open-source parallel high-order adaptative CFD solver for incompressible flows. SoftwareX, 2020, 12, 100579.	1.2	20
32	Size segregation of bidisperse granular mixtures in rotating drum. Powder Technology, 2020, 374, 172-184.	2.1	21
33	Separation of Radioactive Elements from Rare Earth Element-Bearing Minerals. Metals, 2020, 10, 1524.	1.0	36
34	Upgrading of Oils from Biomass and Waste: Catalytic Hydrodeoxygenation. Catalysts, 2020, 10, 1381.	1.6	42
35	An environmentally friendly route for beneficiation of rare earth-bearing minerals by Pickering emulsification: adjusting the interfacial and formulation parameters. Green Chemistry, 2020, 22, 5771-5784.	4.6	2
36	Multilayer Thin Films on Fine Particles. , 2020, , .		0

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37	Solid holdâ€p measurement in a jetâ€mpactor assisted fluidized bed using gammaâ€ray densitometry. AICHE Journal, 2020, 66, e16653.	1.8	1
38	Metal and sulfur removal from petroleum oil using a novel demetallization-desulfurization agent and process. Journal of Cleaner Production, 2020, 275, 124177.	4.6	21
39	Effect of solid particles on the volumetric gas liquid mass transfer coefficient in slurry bubble column reactors. Chemical Engineering Science, 2020, 227, 115912.	1.9	28
40	Advanced Coal, Biomass and Waste Conversion Technologies. Journal of Carbon Research, 2020, 6, 8.	1.4	0
41	A bubble-induced turbulence model for gas-liquid bubbly flows in airlift columns, pipes and bubble columns. Chemical Engineering Science, 2020, 227, 115945.	1.9	10
42	Production of rare earth oxides from raw ore in fluidized bed reactor. Journal of Industrial and Engineering Chemistry, 2020, 85, 141-151.	2.9	1
43	Kinetics of calcination of natural carbonate minerals. Minerals Engineering, 2020, 150, 106279.	1.8	16
44	Continuous aerosol photopolymerization to coat de-agglomerated nanoparticles. Chemical Engineering Journal, 2020, 390, 124526.	6.6	12
45	The development of industrial (thermal) processes in the context of sustainability: The case for microwave heating. Canadian Journal of Chemical Engineering, 2020, 98, 832-847.	0.9	18
46	Development and confirmation of a simple procedure to measure solids distribution in fluidized beds using tracer particles. Chemical Engineering Science, 2020, 217, 115501.	1.9	15
47	Microwave effect on kinetics of paper cups pyrolysis. Canadian Journal of Chemical Engineering, 2020, 98, 1757-1766.	0.9	10
48	Kinetic study of microwave pyrolysis of paper cups and comparison with calcium oxide catalyzed reaction. AICHE Journal, 2019, 65, 684-690.	1.8	9
49	Investigation of Energy Harvesting Using Solar Water Heating and Photovoltaic Systems for Gaza and Montreal QC Climates. , 2019, , .		4
50	Effect of interparticle force on gas dynamics in a bubbling gasâ€solid fluidized bed: A CFD-DEM study. Chemical Engineering Research and Design, 2019, 152, 348-362.	2.7	13
51	Physical beneficiation of rare earth-bearing ores by Pickering emulsification. Minerals Engineering, 2019, 144, 106034.	1.8	6
52	Mass transfer in the homogeneous flow regime of a bubble column. Chemical Engineering and Processing: Process Intensification, 2019, 144, 107647.	1.8	12
53	Defluidization Prediction and Prevention during Cocombustion of ReEngineered Feedstock with Coal in a Bubbling Fluidized Bed Combustor. Energy & Fuels, 2019, 33, 1603-1621.	2.5	5
54	Kinetics of the dehydration of lithium dihydrogenphosphate. Canadian Journal of Chemical Engineering, 2019, 97, 2273-2286.	0.9	2

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55	Experimental Methods in Chemical Engineering: Discrete Element Method "DEM. Canadian Journal of Chemical Engineering, 2019, 97, 1964-1973.	0.9	44
56	Gas-phase carbon coating of LiFePO <sub>4</sub> nanoparticles in fluidized bed reactor. Canadian Journal of Chemical Engineering, 2019, 97, 2259-2272.	0.9	6
57	Multiscale multiphase phenomena in bubble column reactors: A review. Renewable Energy, 2019, 141, 613-631.	4.3	81
58	Piloting melt synthesis and manufacturing processes to produce LiFePO <sub>4</sub> : preface. Canadian Journal of Chemical Engineering, 2019, 97, 2189-2195.	0.9	4
59	New technique for simultaneous measurement of the local solid and gas holdup by using optical fiber probes in the slurry bubble column. Chemical Engineering Journal, 2019, 358, 831-841.	6.6	35
60	Numerical and experimental comparison of tracer particle and averaging techniques for particle velocities in a fluidized bed. Chemical Engineering Science, 2019, 195, 356-366.	1.9	13
61	Coal pyrolysis and gasification in a fluidized bed thermogravimetric analyzer. Canadian Journal of Chemical Engineering, 2018, 96, 2144-2154.	0.9	12
62	Major trends and roadblocks in CFD-aided process intensification of biomass pyrolysis. Chemical Engineering and Processing: Process Intensification, 2018, 127, 206-212.	1.8	52
63	Development of a microwave thermogravimetric analyzer and its application on polystyrene microwave pyrolysis kinetics. Journal of Analytical and Applied Pyrolysis, 2018, 130, 209-215.	2.6	38
64	Novel approach in k-NAA for highly concentrated REE Samples. Talanta, 2018, 180, 403-409.	2.9	11
65	Effect of microwave heating on the performance of catalytic oxidation of n-butane in a gas-solid fluidized bed reactor. Chemical Engineering Science, 2018, 192, 1177-1188.	1.9	34
66	Microwave Heating-Assisted Catalytic Dry Reforming of Methane to Syngas. Scientific Reports, 2018, 8, 8940.	1.6	40
67	From complex feedstocks to new processes: The role of the newly developed micro-reactors. Chemical Engineering and Processing: Process Intensification, 2018, 131, 92-105.	1.8	14
68	Conformal Multilayer Photocatalytic Thin Films on Fine Particles by Atmospheric Pressure Fluidized Bed Chemical Vapor Deposition. Industrial & Engineering Chemistry Research, 2018, 57, 10345-10353.	1.8	10
69	De-agglomeration of nanoparticles in a jet impactor-assisted fluidized bed. Powder Technology, 2017, 316, 455-461.	2.1	18
70	Editorial: Fluidization for Emerging Green Technologies. Powder Technology, 2017, 316, 1-2.	2.1	0
71	Shedding light on iron pentacarbonyl photochemistry through a CVD case study. Catalysis Communications, 2017, 100, 19-23.	1.6	10
72	Performance evaluation of different approaches for early detection of defluidization. Powder Technology, 2017, 316, 139-147.	2.1	10

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73	Catalytic ash free coal gasification in a fluidized bed thermogravimetric analyzer. Powder Technology, 2017, 316, 551-559.	2.1	15
74	A simple and robust approach for early detection of defluidization. Chemical Engineering Journal, 2017, 313, 144-156.	6.6	18
75	Effects of temperature, pressure, and interparticle forces on the hydrodynamics of a gas-solid fluidized bed. Chemical Engineering Journal, 2017, 313, 580-590.	6.6	74
76	Reply to comments on "Investigation of turbulent flows in stirred tanks using a non-intrusive particle tracking technique". Chemical Engineering Science, 2017, 158, 623.	1.9	0
77	Similarities between gas-solid fluidization in the presence of interparticle forces at high temperature and induced by a polymer coating approach. Powder Technology, 2017, 320, 155-160.	2.1	5
78	NaClO/NaOH soil oxidation for the remediation of two real heavy-metal and petroleum contaminated soils. Journal of Environmental Chemical Engineering, 2017, 5, 2691-2698.	3.3	10
79	Influence of interparticle forces on solids motion in a bubbling gas-solid fluidized bed. Powder Technology, 2016, 299, 98-106.	2.1	33
80	Investigating the dynamics of cylindrical particles in a rotating drum using multiple radioactive particle tracking. AIChE Journal, 2016, 62, 2622-2634.	1.8	39
81	Development of a multiscale model for the design and scale-up of gas/liquid stirred tank reactors. Chemical Engineering Journal, 2016, 297, 277-294.	6.6	31
82	Solids flux measurements via alternate techniques in a gas-fluidized bed. Chemical Engineering Journal, 2016, 306, 306-321.	6.6	13
83	Impact of the heating mechanism on the yield and composition of bio-oil from pyrolysis of kraft lignin. Biomass and Bioenergy, 2016, 95, 344-353.	2.9	38
84	Selective extraction of heavy metals from two real calcium-rich contaminated soils by a modified NTA. Journal of Hazardous Materials, 2016, 318, 48-53.	6.5	4
85	Comparison of particle velocity measurement techniques in a fluidized bed operating in the square-nosed slugging flow regime. Powder Technology, 2016, 296, 45-52.	2.1	18
86	Local hydrodynamic parameters of bubble column reactors operating with non-Newtonian liquids: Experiments and models development. AIChE Journal, 2016, 62, 1382-1396.	1.8	17
87	Performance of a Catalytic Gas-Solid Fluidized Bed Reactor in the Presence of Interparticle Forces. International Journal of Chemical Reactor Engineering, 2016, 14, 433-444.	0.6	6
88	Fluidization characteristics of a bubbling gas-solid fluidized bed at high temperature in the presence of interparticle forces. Chemical Engineering Journal, 2016, 288, 344-358.	6.6	40
89	Supercritical fluid rectification of lignin pyrolysis oil methyl ether (LOME) and its use as a bio-derived aprotic solvent. Green Chemistry, 2016, 18, 2089-2094.	4.6	10
90	Simulation of the Selective Hydrogenation of C <sub>3</sub> -Cut in the Liquid Phase. International Journal of Chemical Reactor Engineering, 2016, 14, 859-874.	0.6	8

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91	Experimental investigation of solid particles flow in a conical spouted bed using radioactive particle tracking. <i>AICHE Journal</i> , 2016, 62, 26-37.	1.8	19
92	Reduction of pulverized coal boiler's emissions through ReEngineered Feedstockâ„¢ co-combustion. <i>Energy</i> , 2016, 101, 471-483.	4.5	3
93	Sodium hypochlorite oxidation of petroleum aliphatic contaminants in calcareous soils. <i>Chemosphere</i> , 2016, 145, 200-206.	4.2	8
94	Effect of elevated pressure on the hydrodynamic aspects of a pilot-scale bubble column reactor operating with non-Newtonian liquids. <i>Chemical Engineering Journal</i> , 2016, 288, 377-389.	6.6	21
95	Co-combustion of coal and waste in pulverized coal boiler. <i>Energy</i> , 2016, 94, 742-754.	4.5	24
96	Investigation of turbulent fluid flows in stirred tanks using a non-intrusive particle tracking technique. <i>Chemical Engineering Science</i> , 2016, 140, 233-251.	1.9	29
97	Gas residence time distribution in a conical spouted bed. <i>Powder Technology</i> , 2016, 290, 62-71.	2.1	12
98	Fast Pyrolysis of Lignocellulosic Biomass for the Production of Energy and Chemicals: A Critical Review. <i>Current Organic Chemistry</i> , 2016, 20, 2458-2479.	0.9	40
99	Technoâ€Economic Comparison of a 7â€MW<sub>th</sub> Biomass Chemical Looping Gasification Unit with Conventional Systems. <i>Chemical Engineering and Technology</i> , 2015, 38, 867-878.	0.9	23
100	Determination of Enthalpy of Pyrolysis from DSC and Industrial Reactor Data: Case of Tires. <i>Chemical Product and Process Modeling</i> , 2015, 10, 97-111.	0.5	3
101	A CPFD model for a bubbly biomassâ€sand fluidized bed. <i>Powder Technology</i> , 2015, 275, 39-50.	2.1	35
102	Investigation of particle velocity in FCC gas-fluidized beds based on different measurement techniques. <i>Chemical Engineering Science</i> , 2015, 127, 310-322.	1.9	45
103	Behavior of Sulfur during the Pyrolysis of Tires. <i>Energy &amp; Fuels</i> , 2015, 29, 763-774.	2.5	30
104	Sand-assisted fluidization of large cylindrical and spherical biomass particles: Experiments and simulation. <i>Chemical Engineering Science</i> , 2015, 126, 543-559.	1.9	66
105	A multiple radioactive particle tracking technique to investigate particulate flows. <i>AICHE Journal</i> , 2015, 61, 384-394.	1.8	30
106	A novel induction heating fluidized bed reactor: Its design and applications in high temperature screening tests with solid feedstocks and prediction of defluidization state. <i>AICHE Journal</i> , 2015, 61, 1507-1523.	1.8	31
107	Characterization of the upward motion of an object immersed in a bubbling fluidized bed of fine particles. <i>Chemical Engineering Journal</i> , 2015, 280, 26-35.	6.6	13
108	Application of Temperature and Pressure Signals for Early Detection of Defluidization Conditions. <i>Procedia Engineering</i> , 2015, 102, 1006-1015.	1.2	10

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109	The separation of the main combustible components of municipal solid waste through a dry step-wise process. Powder Technology, 2015, 278, 118-129.	2.1	10
110	The effects of liquid phase rheology on the hydrodynamics of a gas-liquid bubble column reactor. Chemical Engineering Science, 2015, 129, 193-207.	1.9	41
111	Transient modeling of biomass steam gasification with Co <sub>3</sub> O <sub>4</sub> . Fuel, 2015, 140, 354-364.	3.4	9
112	Thermal behavior of an engineered fuel and its constituents for a large range of heating rates with emphasis on heat transfer limitations. Thermochimica Acta, 2015, 601, 54-62.	1.2	16
113	Development of a fluidized bed thermogravimetric analyzer. AICHE Journal, 2015, 61, 84-89.	1.8	33
114	A modified microwave thermo-gravimetric-analyzer for kinetic purposes. Applied Thermal Engineering, 2015, 75, 65-72.	3.0	38
115	Economics evaluation for on-site pyrolysis of kraft lignin to value-added chemicals. Bioresource Technology, 2015, 175, 254-261.	4.8	42
116	Hydrodynamics of a gas-solid fluidized bed with thermally induced interparticle forces. Chemical Engineering Journal, 2015, 259, 135-152.	6.6	69
117	Microwave Heating Assisted Biorefinery of Biomass. , 2015, , 131-166.		2
118	Local characterization of a gas-solid fluidized bed in the presence of thermally induced interparticle forces. Chemical Engineering Science, 2014, 119, 261-273.	1.9	38
119	Innovate: Yes You Can. Procedia Engineering, 2014, 83, 16-18.	1.2	0
120	TGA and kinetic modelling of Co, Mn and Cu oxides for chemical looping gasification (CLG). Canadian Journal of Chemical Engineering, 2014, 92, 1903-1910.	0.9	28
121	Fabrication of mullite-bonded porous SiC ceramics via a sol-gel assisted in situ reaction bonding. Journal of the European Ceramic Society, 2014, 34, 237-247.	2.8	59
122	Conical spouted bed drying of Baker's yeast: Experimentation and multi-modeling. Food Research International, 2014, 62, 137-150.	2.9	26
123	Distributed Microwave Pyrolysis of Domestic Waste. Waste and Biomass Valorization, 2014, 5, 1-10.	1.8	35
124	Comparison of DEM results and Lagrangian experimental data for the flow and mixing of granules in a rotating drum. AICHE Journal, 2014, 60, 60-75.	1.8	83
125	Distribution of large biomass particles in a sand-biomass fluidized bed: Experiments and modeling. AICHE Journal, 2014, 60, 869-880.	1.8	53
126	Compartmental modelling of turbulent fluid flow for the scale-up of stirred tanks. Canadian Journal of Chemical Engineering, 2014, 92, 1070-1081.	0.9	20



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127	Optimization of detector positioning in the radioactive particle tracking technique. Applied Radiation and Isotopes, 2014, 89, 109-124.	0.7	22
128	Extraction of phenols from lignin microwave-pyrolysis oil using a switchable hydrophilicity solvent. Bioresource Technology, 2014, 154, 101-108.	4.8	144
129	Manufacturing Process for in Situ Reaction-Bonded Porous SiC Ceramics Using a Combination of Craft Polymerization and Sol-Gel Approaches. Industrial & Engineering Chemistry Research, 2014, 53, 17604-17614.	1.8	6
130	Detailed compositional analysis and structural investigation of a bio-oil from microwave pyrolysis of kraft lignin. Journal of Analytical and Applied Pyrolysis, 2014, 109, 249-257.	2.6	75
131	Lumped Approach in Kinetic Modeling of Microwave Pyrolysis of Kraft Lignin. Energy & Fuels, 2014, 28, 1406-1417.	2.5	68
132	Discrete element simulation of the dynamics of adsorbents in a radial flow reactor used for gas prepurification. Adsorption, 2014, 20, 91-107.	1.4	8
133	Novel fabrication route for porous silicon carbide ceramics through the combination of <i>in situ</i> polymerization and reaction bonding techniques. Journal of Applied Polymer Science, 2014, 131, .	1.3	7
134	Discrete element simulation of particle mixing and segregation in a tetrapodal blender. Computers and Chemical Engineering, 2014, 64, 1-12.	2.0	34
135	Diffusional effects for the oxidation of SiC powders in thermogravimetric analysis experiments. Journal of Materials Science, 2013, 48, 4396-4407.	1.7	20
136	Experimental investigation of solid mixing and segregation in a tetrapodal blender. Chemical Engineering Science, 2013, 97, 354-365.	1.9	12
137	Discrete element investigation of flow patterns and segregation in a spheronizer. Computers and Chemical Engineering, 2013, 49, 170-182.	2.0	17
138	Using S-statistic for investigating the effect of temperature on hydrodynamics of gas-solid fluidization. Particuology, 2013, 11, 288-293.	2.0	8
139	Characterization of Mixing and Size Segregation in a Rotating Drum by a Particle Tracking Method. AIChE Journal, 2013, 59, 1894-1905.	1.8	82
140	Dynamics of non-spherical particles in a rotating drum. Chemical Engineering Science, 2013, 101, 486-502.	1.9	83
141	Experimental investigation of the effect of particle cohesion on the flow dynamics in a spheronizer. AIChE Journal, 2013, 59, 1491-1501.	1.8	10
142	Development of a granular normal contact force model based on a non-Newtonian liquid filled dashpot. Powder Technology, 2013, 237, 202-212.	2.1	24
143	Gas jet penetration lengths from upward and downward nozzles in dense gas-solid fluidized beds. Powder Technology, 2013, 235, 42-54.	2.1	12
144	The effect of biomass particles on the gas distribution and dilute phase characteristics of sand-biomass mixtures fluidized in the bubbling regime. Chemical Engineering Science, 2013, 102, 129-138.	1.9	45

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145	Gas-phase propane combustion in the freeboard of a fluidized bed. <i>Fuel</i> , 2013, 111, 316-323.	3.4	4
146	Traveling column for comparison of invasive and non-invasive fluidization voidage measurement techniques. <i>Powder Technology</i> , 2013, 235, 203-220.	2.1	65
147	Biomass Pretreatments for Biorefinery Applications: Gasification. <i>Green Energy and Technology</i> , 2013, , 197-227.	0.4	0
148	Predictive Kinetics Model for an Industrial Waste Tire Pyrolysis Process. <i>Energy &amp; Fuels</i> , 2013, 27, 1040-1049.	2.5	9
149	Characterization of Minimum Impeller Speed for Suspension of Solids in Liquid at High Solid Concentration, Using Gamma-Ray Densitometry. <i>International Journal of Chemical Engineering</i> , 2012, 2012, 1-15.	1.4	27
150	Using particle trajectory for determining the fluidization regime in gas-solid fluidized beds. <i>Advanced Powder Technology</i> , 2012, 23, 349-351.	2.0	12
151	A multiscale model for the simulation of granulation in rotor-based equipment. <i>Chemical Engineering Science</i> , 2012, 81, 106-117.	1.9	31
152	A Comprehensive Review of Just Suspended Speed in Liquid-Solid and Gas-Liquid-Solid Stirred Tank Reactors. <i>International Journal of Chemical Reactor Engineering</i> , 2012, 10, .	0.6	10
153	Nanoparticle encapsulation by a polymer via <i>in situ</i> polymerization in supercritical conditions. <i>Polymer Engineering and Science</i> , 2012, 52, 637-642.	1.5	10
154	Control of particle cohesion with a polymer coating and temperature adjustment. <i>AIChE Journal</i> , 2012, 58, 3685-3696.	1.8	17
155	Experimental investigation on solid dispersion, power consumption and scale-up in moderate to dense solid-liquid suspensions. <i>Chemical Engineering Research and Design</i> , 2012, 90, 201-212.	2.7	37
156	Temperature profile prediction within selected materials heated by microwaves at 2.45GHz. <i>Applied Thermal Engineering</i> , 2012, 36, 360-369.	3.0	85
157	Gas-solid structure in the vicinity of a sparger nozzle in a fluidized bed. <i>Powder Technology</i> , 2012, 228, 131-140.	2.1	6
158	MeOH to DME in bubbling fluidized bed: Experimental and modelling. <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 274-283.	0.9	14
159	Characterization of solids mixing patterns in bubbling fluidized beds. <i>Chemical Engineering Research and Design</i> , 2011, 89, 817-826.	2.7	79
160	Non-premixed fluidized bed combustion of C <sub>1</sub> -C <sub>4</sub> n-alkanes. <i>Fuel</i> , 2011, 90, 2850-2857.	3.4	6
161	Kinetic Modeling of Methanol-to-Olefin Reaction over ZSM-5 in Fluid Bed. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 29-38.	1.8	59
162	An investigation of magnesium stearate mixing in a V-blender through gamma-ray detection. <i>Powder Technology</i> , 2010, 200, 234-245.	2.1	35

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163	Hydrodynamic characteristics of gas–solid fluidization at high temperature. Canadian Journal of Chemical Engineering, 2010, 88, 1-11.	0.9	19
164	Simultaneous quantitative measurement of gaseous species composition and solids volume fraction in a gas/solid flow. AIChE Journal, 2010, 56, 2850-2859.	1.8	2
165	Trickle-Bed Laboratory Reactors for Kinetic Studies. International Journal of Chemical Reactor Engineering, 2009, 7, .	0.6	16
166	Encapsulation of nanoparticles by polymerization compounding in a gas/solid fluidized bed reactor. AIChE Journal, 2009, 55, 2271-2278.	1.8	11
167	Spent potliner treatment process optimization using a MADS algorithm. Optimization and Engineering, 2008, 9, 143-160.	1.3	34
168	Experimental characterization of the chaotic dynamics of cohesionless particles: application to a V-blender. Granular Matter, 2008, 10, 133-138.	1.1	16
169	An evaluation of the solid hold-up distribution in a fluidized bed of nanoparticles using radioactive densitometry and fibre optics. Canadian Journal of Chemical Engineering, 2008, 86, 543-552.	0.9	17
170	Preamble for special issue honouring John Ross Grace. Canadian Journal of Chemical Engineering, 2008, 86, iii-v.	0.9	1
171	Behaviors of the bubble, cloud, and emulsion phases in a fluidized bed. AIChE Journal, 2008, 54, 406-414.	1.8	22
172	An experimental investigation of effusivity as an indicator of powder blend uniformity. Powder Technology, 2008, 181, 149-159.	2.1	39
173	Large-scale numerical investigation of solids mixing in a V-blender using the discrete element method. Powder Technology, 2008, 181, 205-216.	2.1	114
174	An extended radioactive particle tracking method for systems with irregular moving boundaries. Powder Technology, 2008, 181, 195-204.	2.1	45
175	Exit effect on hydrodynamics of the internal circulating fluidized bed riser. Powder Technology, 2008, 182, 406-414.	2.1	10
176	Wall surface effects on particle–wall friction factor in upward gas–solid flows. Powder Technology, 2008, 186, 80-88.	2.1	13
177	Modeling of the mixing of monodisperse particles using a stationary DEM-based Markov process. Computers and Chemical Engineering, 2008, 32, 1334-1341.	2.0	26
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