

Navid Mostoufi

List of Publications by Citations

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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.

218
papers

3,651
citations

33
h-index

47
g-index

227
ext. papers

4,195
ext. citations

3.7
avg, IF

5.72
L-index

#	Paper	IF	Citations
218	Leaching of vanadium from LD converter slag using sulfuric acid. <i>Hydrometallurgy</i> , 2010 , 102, 14-21	4	135
217	A shrinking particle-shrinking core model for leaching of a zinc ore containing silica. <i>International Journal of Mineral Processing</i> , 2009 , 93, 79-83		119
216	Characterization of dynamic gas-solid distribution in fluidized beds. <i>Chemical Engineering Journal</i> , 2000 , 79, 133-143	14.7	115
215	Local solid mixing in gas-solid fluidized beds. <i>Powder Technology</i> , 2001 , 114, 23-31	5.2	110
214	CFD simulation of fluidized bed reactors for polyolefin production –A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3919-3946	6.3	83
213	Flow structure of the solids in gas-solid fluidized beds. <i>Chemical Engineering Science</i> , 2004 , 59, 4217-4227	4.4	70
212	Characterization of solids mixing patterns in bubbling fluidized beds. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 817-826	5.5	65
211	Kinetic modeling of oxidative coupling of methane over Mn/Na ₂ WO ₄ /SiO ₂ catalyst. <i>Fuel Processing Technology</i> , 2009 , 90, 403-410	7.2	58
210	Two-phase modeling of a gas phase polyethylene fluidized bed reactor. <i>Chemical Engineering Science</i> , 2006 , 61, 3997-4006	4.4	56
209	2016 ,		56
208	Modeling of fluidized bed reactor of ethylene polymerization. <i>Chemical Engineering Journal</i> , 2004 , 97, 27-35	14.7	54
207	Non-intrusive monitoring of bubbles in a gas-solid fluidized bed using vibration signature analysis. <i>Powder Technology</i> , 2009 , 196, 278-285	5.2	53
206	A Comparison of Two- and Single-Phase Models for Fluidized-Bed Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 5526-5532	3.9	51
205	A hybrid GA-BQP optimization technique for determination of kinetic parameters of hydrogenation reactions. <i>Computers and Chemical Engineering</i> , 2008 , 32, 1447-1455	4	50
204	The role of the hydrogen bond in dense nanoparticle-gas suspensions. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5788-93	3.6	49
203	Analyze and control fouling in an airlift membrane bioreactor: CFD simulation and experimental studies. <i>Process Biochemistry</i> , 2011 , 46, 1138-1145	4.8	49
202	Review and implementation of CFD-DEM applied to chemical process systems. <i>Chemical Engineering Science</i> , 2020 , 221, 115646	4.4	48

201	Numerical investigation of effect of electrostatic forces on the hydrodynamics of gas-solid fluidized beds. <i>Powder Technology</i> , 2013 , 246, 16-25	5.2	47
200	Gas and solids between dynamic bubble and emulsion in gas-fluidized beds. <i>Powder Technology</i> , 2001 , 120, 12-20	5.2	46
199	Characterization of various structures in gas-solid fluidized beds by recurrence quantification analysis. <i>Particuology</i> , 2013 , 11, 647-656	2.8	44
198	On the Axial Movement of Solids in Gas-Solid Fluidized Beds. <i>Chemical Engineering Research and Design</i> , 2000 , 78, 911-920	5.5	44
197	Measurement Techniques to Monitor and Control Fluidization Quality in Fluidized Bed Dryers: A Review. <i>Drying Technology</i> , 2014 , 32, 1005-1051	2.6	42
196	Characterization of fluidized beds hydrodynamics by recurrence quantification analysis and wavelet transform. <i>International Journal of Multiphase Flow</i> , 2015 , 69, 31-41	3.6	41
195	Dynamics of two-phase flow in vertical pipes. <i>Journal of Fluids and Structures</i> , 2019 , 87, 150-173	3.1	40
194	Investigation of heat transfer between a horizontal tube and gas-solid fluidized bed. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 1504-1511	2.4	40
193	Nonlinear Characterization of Pressure Fluctuations in Fluidized Beds. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9497-9507	3.9	39
192	Kinetic modeling of propylene homopolymerization in a gas-phase fluidized-bed reactor. <i>Chemical Engineering Journal</i> , 2010 , 161, 240-249	14.7	38
191	Sequential Simulation of a Fluidized Bed Membrane Reactor for the Steam Methane Reforming Using ASPEN PLUS. <i>Energy & Fuels</i> , 2007 , 21, 3593-3598	4.1	37
190	Fault diagnosis of chemical processes with incomplete observations: A comparative study. <i>Computers and Chemical Engineering</i> , 2016 , 84, 104-116	4	36
189	Insights into the granular flow in rotating drums. <i>Chemical Engineering Research and Design</i> , 2015 , 102, 12-25	5.5	36
188	Effect of surface contaminants on oxygen transfer in bubble column reactors. <i>Biochemical Engineering Journal</i> , 2010 , 49, 351-360	4.2	36
187	Modular Simulation of Fluidized Bed Reactors. <i>Chemical Engineering and Technology</i> , 2004 , 27, 123-129	2	36
186	Characterization of gas-solid fluidized bed hydrodynamics by vibration signature analysis. <i>International Journal of Multiphase Flow</i> , 2011 , 37, 788-793	3.6	34
185	Investigating the hydrodynamics of gas-solid bubbling fluidization using recurrence plot. <i>Advanced Powder Technology</i> , 2012 , 23, 380-386	4.6	33
184	Prediction of effective drag coefficient in fluidized beds. <i>Chemical Engineering Science</i> , 1999 , 54, 851-858	1.4	33

183	Dynamic modeling of gas phase propylene homopolymerization in fluidized bed reactors. <i>Chemical Engineering Science</i> , 2011 , 66, 1189-1199	4.4	32
182	A new approach for identifying the rate controlling step applied to the leaching of nickel from spent catalyst. <i>International Journal of Mineral Processing</i> , 2011 , 100, 21-26		32
181	New hybrid CPU-GPU solver for CFD-DEM simulation of fluidized beds. <i>Powder Technology</i> , 2017 , 316, 233-244	5.2	30
180	Effect of fines on segregation of binary mixtures in gas-solid fluidized beds. <i>Powder Technology</i> , 2012 , 225, 7-20	5.2	30
179	Evaluation of heat transfer coefficient in gas-solid fluidized beds using cluster-based approach. <i>Powder Technology</i> , 2007 , 172, 19-26	5.2	30
178	Insights in hydrodynamics of bubbling fluidized beds at elevated pressure by DEM-CFD approach. <i>Particuology</i> , 2010 , 8, 407-414	2.8	29
177	Flow structure characterization in conical spouted beds using pressure fluctuation signals. <i>Powder Technology</i> , 2015 , 269, 392-400	5.2	27
176	Experimental and Modeling Analysis of Propylene Polymerization in a Pilot-Scale Fluidized Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 8694-8705	3.9	27
175	Experimental Study and Computational Fluid Dynamics Simulation of a Full-Scale Membrane Bioreactor for Municipal Wastewater Treatment Application. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 9930-9939	3.9	27
174	Granular mixing in nauta blenders. <i>Powder Technology</i> , 2017 , 305, 279-288	5.2	27
173	Determination of hydrodynamic behavior of gas-solid fluidized beds using statistical analysis of acoustic emissions. <i>International Journal of Multiphase Flow</i> , 2009 , 35, 1011-1016	3.6	27
172	Modeling the acceleration zone in the riser of circulating fluidized beds. <i>Powder Technology</i> , 2004 , 142, 129-135	5.2	26
171	Thermo-mechanical stability of axially graded Rayleigh pipes. <i>Mechanics Based Design of Structures and Machines</i> , 1-30	1.7	26
170	Hydrodynamics of slot-rectangular spouted beds: Process intensification. <i>Chemical Engineering Research and Design</i> , 2017 , 121, 315-328	5.5	25
169	Experimental study of the VOC emitted from crude oil tankers. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 929-937	5.5	25
168	Clusters identification and characterization in a gas-solid fluidized bed by the wavelet analysis. <i>Canadian Journal of Chemical Engineering</i> , 2009 , 87, 375-385	2.3	25
167	Synergistic Effect of D2EHPA and Cyanex 272 on Separation of Zinc and Manganese by Solvent Extraction. <i>Separation Science and Technology</i> , 2011 , 46, 2305-2312	2.5	24
166	Comprehensive study of regime transitions throughout a bubble column using resistivity probe. <i>Chemical Engineering Science</i> , 2013 , 100, 15-22	4.4	22

165	Improved single phase modeling of propylene polymerization in a fluidized bed reactor. <i>Computers and Chemical Engineering</i> , 2012 , 36, 35-47	4	21
164	Cluster size distribution in the freeboard of a gas-solid fluidized bed. <i>Powder Technology</i> , 2013 , 246, 1-6	5.2	21
163	Simulation of an Industrial Pyrolysis Gasoline Hydrogenation Unit. <i>Chemical Engineering and Technology</i> , 2005 , 28, 174-181	2	21
162	Dynamics and Predictive Control of Gas Phase Propylene Polymerization in Fluidized Bed Reactors. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 1015-1029	3.2	20
161	Experimental investigation of cluster properties in dense gas-solid fluidized beds of different diameters. <i>Particuology</i> , 2014 , 16, 69-74	2.8	20
160	Modeling and optimization of synergistic effect of Cyanex 302 and D2EHPA on separation of zinc and manganese. <i>Hydrometallurgy</i> , 2011 , 105, 277-283	4	20
159	Modified two-phase model with hybrid control for gas phase propylene copolymerization in fluidized bed reactors. <i>Chemical Engineering Journal</i> , 2015 , 264, 706-719	14.7	19
158	Characterization of the bubbling fluidization of nanoparticles. <i>Particuology</i> , 2014 , 16, 75-83	2.8	19
157	Performance of the wide-ranging models for fluidized bed reactors. <i>Advanced Powder Technology</i> , 2004 , 15, 533-548	4.6	19
156	Study of transition velocity from bubbling to turbulent fluidisation by recurrence plots analysis on pressure fluctuations. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 368-375	2.3	18
155	Investigating agglomeration phenomena in an air-polyethylene fluidized bed using DEM-CFD approach. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 102-118	5.5	18
154	Sequential modeling of fluidized bed paddy dryer. <i>Journal of Food Engineering</i> , 2010 , 101, 303-308	6	18
153	Hydrodynamic characteristics of gas-solid fluidization at high temperature. <i>Canadian Journal of Chemical Engineering</i> , 2010 , 88, 1-11	2.3	18
152	Measurement of bubble size distribution in activated sludge bubble column bioreactor. <i>Biochemical Engineering Journal</i> , 2017 , 125, 212-220	4.2	17
151	Non-intrusive characterization of particle size changes in fluidized beds using recurrence plots. <i>AIChE Journal</i> , 2016 , 62, 3547-3561	3.6	17
150	Effective coating of titania nanoparticles with alumina via atomic layer deposition. <i>Applied Surface Science</i> , 2017 , 426, 480-496	6.7	17
149	Investigating the Synergistic Effect of D2EHPA and Cyanex 302 on Zinc and Manganese Separation. <i>Separation Science and Technology</i> , 2010 , 45, 1158-1164	2.5	17
148	Investigating the effect of channel geometry on selective catalytic reduction of NO _x in monolith reactors. <i>Chemical Engineering Research and Design</i> , 2017 , 118, 21-30	5.5	16

147	Investigation of hydrodynamics of gas-solid fluidized beds using cross recurrence quantification analysis. <i>Advanced Powder Technology</i> , 2017 , 28, 1237-1248	4.6	16
146	Effect of distributor on fluidized bed hydrodynamics. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 2221-2234	2.3	16
145	Frequency-based characterization of liquid-solid fluidized bed hydrodynamics using the analysis of vibration signature and pressure fluctuations. <i>Powder Technology</i> , 2013 , 235, 787-796	5.2	16
144	Kinetics of chemical leaching of chalcopyrite from low grade copper ore: behavior of different size fractions. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2011 , 18, 638-645	3.1	16
143	Experimental investigation of particle contact time at the wall of gas fluidized beds. <i>Chemical Engineering Science</i> , 2005 , 60, 4349-4357	4.4	16
142	Fault diagnosis of chemical processes considering fault frequency via Bayesian network. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 2315-2325	2.3	16
141	Two phase steady-state particle size distribution in a gas-phase fluidized bed ethylene polymerization reactor. <i>Chemical Engineering Science</i> , 2012 , 73, 1-7	4.4	15
140	Particle Size Distribution in Gas-phase Polyethylene Reactors. <i>Advanced Powder Technology</i> , 2008 , 19, 321-334	4.6	15
139	Modeling the Hydrodynamics of Downers by Cluster-Based Approach. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7204-7209	3.9	15
138	Simulation of granular mixing in a static mixer by the discrete element method. <i>Powder Technology</i> , 2019 , 346, 171-179	5.2	15
137	Selection of minimal length of line in recurrence quantification analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 395, 112-120	3.3	14
136	Vibration time series analysis of bubbling and turbulent fluidization. <i>Particuology</i> , 2012 , 10, 292-297	2.8	14
135	Modeling the Growth of Carbon Nanotubes in a Floating Catalyst Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1143-1149	3.9	14
134	CFD-DEM Study of Temperature and Concentration Distribution in a Polyethylene Fluidized Bed Reactor. <i>Particulate Science and Technology</i> , 2011 , 29, 163-178	2	14
133	Dynamic optimization of the benzene extractive distillation unit. <i>Brazilian Journal of Chemical Engineering</i> , 2008 , 25, 765-776	1.7	14
132	Kinetics of leaching: a review. <i>Reviews in Chemical Engineering</i> , 2019 ,	5	14
131	A new correlation for minimum spouting velocity for conical spouted beds operating with high density particles. <i>Experimental Thermal and Fluid Science</i> , 2018 , 96, 358-370	3	13
130	Size of nanoparticle agglomerates in fluidization. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 476-484	2.3	13

129	Understanding bubble hydrodynamics in bubble columns. <i>Experimental Thermal and Fluid Science</i> , 2013 , 45, 63-74	3	13
128	Experimental investigation on the hydrodynamics of a gas-liquid-solid fluidized bed using vibration signature and pressure fluctuation analyses. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 42, 190-199	3.4	13
127	Improved Modeling of Bubble Column Reactors by Considering the Bubble Size Distribution. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 5705-5714	3.9	13
126	Hydrodynamic characterisation of liquid-solid two-phase fluidised beds: Vibration signature and pressure fluctuations analyses. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 1646-1653	2.3	13
125	Monitoring of liquid sprayed conical spouted beds by recurrence plots. <i>Powder Technology</i> , 2017 , 316, 148-156	5.2	12
124	A novel approach for simultaneous hydrodynamic characterization of gas-liquid and gas-solid systems. <i>Chemical Engineering Science</i> , 2013 , 100, 74-82	4.4	12
123	A solids mixing rate correlation for small scale fluidized beds. <i>Particuology</i> , 2015 , 21, 55-64	2.8	12
122	Using particle trajectory for determining the fluidization regime in gas-solid fluidized beds. <i>Advanced Powder Technology</i> , 2012 , 23, 349-351	4.6	12
121	Analysis and modeling of particle-wall contact time in gas fluidized beds. <i>Chemical Engineering Science</i> , 2007 , 62, 4573-4578	4.4	12
120	Bubble Size Distribution in Oil-Based Bubble Columns. <i>Chemical Engineering and Technology</i> , 2008 , 31, 1668-1675	2	12
119	Modeling the synthesis section of an industrial urea plant. <i>Chemical Engineering Journal</i> , 2005 , 106, 249-260	1.7	12
118	Early detection of agglomeration in a polyethylene fluidized bed at high temperature and pressure by vibration signature analysis. <i>Chemical Engineering Research and Design</i> , 2015 , 104, 156-163	5.5	11
117	Investigating the bubble dynamics in fluidized bed by CFD-DEM. <i>Powder Technology</i> , 2020 , 366, 938-948	5.2	11
116	Effect of temperature on fluidization of hydrophilic and hydrophobic nanoparticle agglomerates. <i>Experimental Thermal and Fluid Science</i> , 2018 , 96, 63-74	3	11
115	Multi-scale analysis of flow structures in fluidized beds with immersed tubes. <i>Particuology</i> , 2015 , 21, 99-106	2.8	11
114	Characterization of Regime Transition in Fluidized Beds at High Velocities by Analysis of Vibration Signals. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 2855-2863	3.9	11
113	Early Detection of Agglomeration in Conical Spouted Beds Using Recurrence Plots. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7179-7190	3.9	10
112	Predicting Transition Velocities from Bubbling to Turbulent Fluidization by S-Statistics on Vibration Signals. <i>Particulate Science and Technology</i> , 2013 , 31, 10-15	2	10

111	Two-Phase Sequential Simulation of a Fluidized Bed Reformer. <i>Chemical Engineering and Technology</i> , 2008 , 31, 984-989	2	10
110	Simulation of a catalytic turbulent fluidized bed reactor using the sequential modular approach. <i>Fuel Processing Technology</i> , 2004 , 85, 189-200	7.2	10
109	A mechanistic study of agglomeration in fluidised beds at elevated pressures. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 560-569	2.3	9
108	An improved model for determining fractal structure of nano-agglomerates. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 1753-1759	2.3	9
107	Evaluating the Probabilities of Fluidization Regimes. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 4245-4251	3.9	9
106	Modeling of Stagewise Feeding in Fluidized Bed Reactor of Oxidative Coupling of Methane. <i>Energy & Fuels</i> , 2009 , 23, 3745-3752	4.1	9
105	Monitoring the Moisture Content of Solids in Fluidized Bed Dryers by Analysis of Pressure Fluctuations. <i>Drying Technology</i> , 2011 , 29, 1697-1704	2.6	9
104	Detecting stability of conical spouted beds based on information entropy theory. <i>Powder Technology</i> , 2019 , 343, 185-193	5.2	9
103	Investigating the hydrodynamics of high temperature fluidized bed by recurrence plot. <i>Experimental Thermal and Fluid Science</i> , 2017 , 83, 88-99	3	8
102	Effect of changes in particle size on the hydrodynamics of gas-solid fluidized beds through wall vibration. <i>Powder Technology</i> , 2017 , 307, 129-136	5.2	8
101	Using S-statistic for investigating the effect of temperature on hydrodynamics of gas-solid fluidization. <i>Particuology</i> , 2013 , 11, 288-293	2.8	8
100	Dynamic analysis of the scale-up of fluidized beds. <i>Advanced Powder Technology</i> , 2017 , 28, 2621-2629	4.6	8
99	Numerical comparison of gas-liquid bubble columns and gas-solid fluidized beds. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 1838-1848	2.3	8
98	Conditional monitoring of moisture content in a fluidized bed dryer by the acoustic emission signature. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 595-600	2.8	8
97	Nonlinear dynamics of a gas-solid fluidized bed by the state space analysis. <i>Chemical Engineering Science</i> , 2011 , 66, 4645-4653	4.4	8
96	Prediction of the Maximum Heat Transfer Coefficient Between a Horizontal Tube and Gas-Solid Fluidized Beds. <i>Heat Transfer Engineering</i> , 2010 , 31, 870-879	1.7	8
95	Reactor Modeling of Gas-Phase Polymerization of Ethylene. <i>Chemical Engineering and Technology</i> , 2004 , 27, 1227-1232	2	8
94	Multiscale characterization of nanoparticles in a magnetically assisted fluidized bed. <i>Particuology</i> , 2020 , 51, 64-71	2.8	8

93	Investigation of Hydrodynamics of High-Temperature Fluidized Beds by Pressure Fluctuations. <i>Chemical Engineering and Technology</i> , 2016 , 39, 1527-1536	2	8
92	Investigating the flow structures in semi-cylindrical bubbling fluidized bed using pressure fluctuation signals. <i>Advanced Powder Technology</i> , 2019 , 30, 1247-1256	4.6	7
91	Investigating bubble dynamics in a bubble column containing shear thinning liquid using a dual-tip probe. <i>Experimental Thermal and Fluid Science</i> , 2018 , 94, 34-48	3	7
90	Effect of Temperature on Fluidization Regimes. <i>Chemical Engineering and Technology</i> , 2014 , 37, 1593-1599	5.2	7
89	A new method for validation of a CFD-DEM model of gas-solid fluidized bed. <i>International Journal of Multiphase Flow</i> , 2012 , 47, 133-140	3.6	7
88	Probabilistic Approach to Particle-Wall Contact Time in Fluidized Beds. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	7
87	Monitoring the particle-wall contact in a gas fluidized bed by RPT. <i>Powder Technology</i> , 2005 , 153, 119-126	5.2	7
86	Enhancing the fluidization quality of nanoparticles using external fields. <i>Advanced Powder Technology</i> , 2018 , 29, 3145-3154	4.6	7
85	Performance evaluation of different approaches for early detection of defluidization. <i>Powder Technology</i> , 2017 , 316, 139-147	5.2	6
84	Characterization of flow properties of pharmaceutical pellets in draft tube conical spout-fluid beds. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 274-281	6.3	6
83	Effect of interparticle force on gas dynamics in a bubbling gas-solid fluidized bed: A CFD-DEM study. <i>Chemical Engineering Research and Design</i> , 2019 , 152, 348-362	5.5	6
82	Coalescence efficiency of bubbles in bubble columns. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 1579-1587	2.3	6
81	Decreasing the Sampling Time Interval in Radioactive Particle Tracking. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 81, 129-133	2.3	6
80	Data-Driven Fault Diagnosis of Chemical Processes Based on Recurrence Plots. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3038-3055	3.9	6
79	Fluidization of Nanoparticle Agglomerates at Elevated Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13955-13969	3.9	5
78	Recognition of Particle Size Changes in Fluidized Beds by Recurrence and Cross Recurrence Quantification Analyses. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11778-11784	3.9	5
77	Evaluating Performance of Honey Bee Mating Optimization. <i>Journal of Optimization Theory and Applications</i> , 2014 , 160, 1020-1026	1.6	5
76	Modelling and optimisation of continuous catalytic regeneration process using bee colony algorithm. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 1256-1269	2.3	5

75	Reduction of membrane fouling by innovative method (injection of air jet). <i>Journal of Environmental Health Science & Engineering</i> , 2014 , 12, 128	2.9	5
74	Fusion of micro-macro data for fault diagnosis of a sweetening unit using Bayesian network. <i>Chemical Engineering Research and Design</i> , 2016 , 115, 325-334	5.5	5
73	Uncertainty in chemical process systems engineering: a critical review. <i>Reviews in Chemical Engineering</i> , 2019 ,	5	5
72	On the stability of WEstler fluid bed of pharmaceutical pellets. <i>Particuology</i> , 2019 , 45, 81-90	2.8	5
71	Vibrational analysis of pipes based on the drift-flux two-phase flow model. <i>Ocean Engineering</i> , 2022 , 249, 110917	3.9	5
70	Effect of electrostatic charge of particles on hydrodynamics of gas-solid fluidized beds. <i>Advanced Powder Technology</i> , 2019 , 30, 815-828	4.6	4
69	Investigating the effect of sparger configuration on the hydrodynamics of a full-scale membrane bioreactor using computational fluid dynamics. <i>RSC Advances</i> , 2015 , 5, 105218-105226	3.7	4
68	Comparative simulation of a fluidised bed reformer using industrial process simulators. <i>International Journal of Sustainable Energy</i> , 2016 , 35, 664-674	2.7	4
67	Characterization of hydrodynamics of bubble columns by recurrence quantification analysis. <i>Chaos, Solitons and Fractals</i> , 2018 , 111, 213-226	9.3	4
66	Optimization and dissolution kinetics of vanadium recovery from LD converter slag in alkaline media. <i>Russian Journal of Non-Ferrous Metals</i> , 2016 , 57, 395-404	0.8	4
65	Wall vibration for characterizing fluidization hydrodynamics. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 1783-1790	2.3	4
64	Experimental Study and Modeling of Fouling in Immersed Membrane Bioreactor Operating in Constant Pressure Filtration. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-7	1.1	4
63	Effect of hydrodynamics on kinetics of gluconic acid enzymatic production in bubble column reactor. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2013 , 19, 411-422	0.7	4
62	Modeling and Optimization of the Sugar Extraction Process. <i>International Journal of Food Engineering</i> , 2009 , 5,	1.9	4
61	Multiobjective Dynamic Optimization of an Industrial Steam Reformer with Genetic Algorithms. <i>International Journal of Chemical Reactor Engineering</i> , 2007 , 5,	1.2	4
60	Nonlinear Dynamic Characteristics of Bubbling Fluidization 2012 , 300-331		4
59	A hybrid deterministic&stochastic model for spouted beds. <i>Particuology</i> , 2019 , 42, 104-113	2.8	4
58	Revisiting classification of powders based on interparticle forces. <i>Chemical Engineering Science</i> , 2021 , 229, 116029	4.4	4

57	Development of a PAT tool for monitoring the Wurster coater performance. <i>International Journal of Pharmaceutics</i> , 2019 , 561, 171-186	6.5	3
56	Investigating bubble dynamics in a semi-cylindrical gas-solid fluidized bed. <i>Powder Technology</i> , 2020 , 370, 129-136	5.2	3
55	Experimental investigating the effect of bed geometry on solids mixing in fluidized beds. <i>Particulate Science and Technology</i> , 2016 , 34, 127-133	2	3
54	Soft sensor design and fault detection using Bayesian network and probabilistic principal component analysis. <i>Journal of Advanced Manufacturing and Processing</i> , 2019 , 1,	2.7	3
53	ECONOMIC DESIGN AND OPTIMIZATION OF ZEOLITE-BASED CUMENE PRODUCTION PLANT. <i>Chemical Engineering Communications</i> , 2014 , 201, 1270-1293	2.2	3
52	Nonintrusive characterization of fluidized bed hydrodynamics using vibration signature analysis. <i>AIChE Journal</i> , 2009 , 56, NA-NA	3.6	3
51	Kinetic Modeling of Carbon Nanotube Production and Minimization of Amorphous Carbon Overlayer Deposition in Floating Catalyst Method. <i>International Journal of Chemical Reactor Engineering</i> , 2012 , 10,	1.2	3
50	Influence of Hydrodynamic Models on Dynamic Response of the Fluidized Bed Polyethylene Reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2008 , 6,	1.2	3
49	Optimization of Radial Flow Reactors of Styrene Production. <i>International Journal of Chemical Reactor Engineering</i> , 2007 , 5,	1.2	3
48	Fluidization characterization of nano-powders in the presence of electrical field. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 1109-1115	2.3	3
47	CFD-DEM Simulation of a Conical Spouted Bed Operating with High Density Particles. <i>Springer Proceedings in Physics</i> , 2017 , 947-955	0.2	2
46	Fluidization of electrically charged particles. <i>Journal of Electrostatics</i> , 2019 , 99, 9-18	1.7	2
45	Hydrodynamic design of multi-zone circulating reactors using CFD. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 670-678	2.3	2
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