

Faal Larachi

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.

250
papers

5,866
citations

39
h-index

63
g-index

256
ext. papers

6,437
ext. citations

4.8
avg, IF

6.2
L-index

#	Paper	IF	Citations
250	High-Pressure Trickle-Bed Reactors: A Review. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 3292-3314	3.9	273
249	Multiphase catalytic reactors: a perspective on current knowledge and future trends. <i>Catalysis Reviews - Science and Engineering</i> , 2002 , 44, 123-246	12.6	254
248	Multiphase reactors revisited. <i>Chemical Engineering Science</i> , 1999 , 54, 1975-1995	4.4	253
247	Noninvasive Tomographic and Velocimetric Monitoring of Multiphase Flows. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4476-4503	3.9	229
246	CFD simulation of bubble column flows: Investigations on turbulence models in RANS approach. <i>Chemical Engineering Science</i> , 2009 , 64, 4399-4413	4.4	156
245	Wet oxidation of phenolic solutions over heterogeneous catalysts: Degradation profile and catalyst behavior. <i>Journal of Catalysis</i> , 1998 , 177, 247-258	7.3	135
244	Stabilization of basic oxygen furnace slag by hot-stage carbonation treatment. <i>Chemical Engineering Journal</i> , 2012 , 203, 239-250	14.7	96
243	A ray detection system for 3-D particle tracking in multiphase reactors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994 , 338, 568-576	1.2	94
242	CO ₂ capture in alkanolamine/room-temperature ionic liquid emulsions: A viable approach with carbamate crystallization and curbed corrosion behavior. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 6, 246-252	4.2	88
241	Carbon sequestration kinetic and storage capacity of ultramafic mining waste. <i>Environmental Science & Technology</i> , 2011 , 45, 9413-20	10.3	85
240	A noninvasive X-ray technique for determination of liquid holdup in a rotating packed bed. <i>Chemical Engineering Science</i> , 2015 , 138, 244-255	4.4	68
239	Pressure Drop and Liquid Holdup in Trickle Flow Reactors: Improved Ergun Constants and Slip Correlations for the Slit Model. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 4542-4550	3.9	65
238	A study of solid behavior in spouted beds using 3-D particle tracking. <i>Canadian Journal of Chemical Engineering</i> , 1994 , 72, 945-952	2.3	65
237	3-D mapping of solids flow fields in multiphase reactors with RPT. <i>AIChE Journal</i> , 1995 , 41, 439-443	3.6	65
236	Optimal design of radioactive particle tracking experiments for flow mapping in opaque multiphase reactors. <i>Applied Radiation and Isotopes</i> , 2002 , 56, 485-503	1.7	62
235	Hydrogen production by glycerol steam reforming catalyzed by Ni-promoted Fe/Mg-bearing metallurgical wastes. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 183-193	21.8	61
234	Analysis of flow in rotating packed beds via CFD simulations Dry pressure drop and gas flow maldistribution. <i>Chemical Engineering Science</i> , 2009 , 64, 2113-2126	4.4	61

233	Surface interactions and flotation behavior of calcite, dolomite and ankerite with alkyl hydroxamic acid bearing collector and sodium silicate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 537, 126-138	5.1	60
232	Modelling and simulation of trickle-bed reactors using computational fluid dynamics: A state-of-the-art review. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 136-180	2.3	59
231	Fixation of CO ₂ by chrysotile in low-pressure dry and moist carbonation: Ex-situ and in-situ characterizations. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 3051-3075	5.5	59
230	CO ₂ capture in alkanolamine-RTIL blends via carbamate crystallization: route to efficient regeneration. <i>Environmental Science & Technology</i> , 2012 , 46, 11443-50	10.3	58
229	Dynamics of carbon dioxide uptake in chrysotile mining residues [Effect of mineralogy and liquid saturation. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 12, 124-135	4.2	56
228	CO ₂ Sequestration in Chrysotile Mining Residues [Implication of Watering and Passivation under Environmental Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 8726-8734	3.9	56
227	Sorption-enhanced dimethyl ether synthesis [Multiscale reactor modeling. <i>Chemical Engineering Science</i> , 2011 , 66, 2241-2251	4.4	54
226	Mass transfer intensification in a rotating packed bed with surface-modified nickel foam packing. <i>Chemical Engineering Journal</i> , 2016 , 285, 236-242	14.7	53
225	CO ₂ -depleted warm air venting from chrysotile milling waste (Thetford Mines, Canada): Evidence for in-situ carbon capture from the atmosphere. <i>Geology</i> , 2012 , 40, 275-278	5	53
224	Some experimental liquid saturation results in fixed-bed reactors operated under elevated pressure in cocurrent upflow and downflow of the gas and the liquid. <i>Industrial & Engineering Chemistry Research</i> , 1991 , 30, 2404-2410	3.9	53
223	CO ₂ absorption in diethanolamine/ionic liquid emulsions [Chemical kinetics and mass transfer study. <i>Chemical Engineering Journal</i> , 2014 , 240, 16-23	14.7	52
222	Wet Oxidation of Phenol Catalyzed by Unpromoted and Platinum-Promoted Manganese/Cerium Oxide. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 3561-3566	3.9	49
221	Heat and Mass Transfer in Cocurrent Gas-Liquid Packed Beds. Analysis, Recommendations, and New Correlations. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 222-242	3.9	48
220	Methane Nonoxidative Aromatization over RuMo/HZSM-5 in a Membrane Catalytic Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 2371-2378	3.9	46
219	Oxygen-Free Methane Aromatization in a Catalytic Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 2212-2219	3.9	46
218	Distillation studies in a two-stage counter-current rotating packed bed. <i>Separation and Purification Technology</i> , 2013 , 102, 62-66	8.3	45
217	Comparative study of five Québec ultramafic mining residues for use in direct ambient carbon dioxide mineral sequestration. <i>Chemical Engineering Journal</i> , 2014 , 245, 56-64	14.7	44
216	Synthesis of CaCO ₃ nanoparticles by controlled precipitation of saturated carbonate and calcium nitrate aqueous solutions. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 26-33	2.3	44

215	Micromixing Efficiency Enhancement in a Rotating Packed Bed Reactor with Surface-Modified Nickel Foam Packing. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 1697-1702	3.9	43
214	Methane Nonoxidative Aromatization over RuMo/HZSM-5 at Temperatures up to 973 K in a Palladium/Silver/Stainless Steel Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 323-330	3.9	43
213	CFD study on hydrodynamics in three-phase fluidized beds Application of turbulence models and experimental validation. <i>Chemical Engineering Science</i> , 2012 , 78, 167-180	4.4	41
212	Hydrodynamics of cocurrent two-phase flows in slanted porous media Modulation of pulse flow via bed obliquity. <i>AIChE Journal</i> , 2010 , 56, 3189-3205	3.6	40
211	Mechanistic Model for Structured-Packing-Containing Columns: Irrigated Pressure Drop, Liquid Holdup, and Packing Fractional Wetted Area. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 5140-5146	3.9	39
210	Solubility of Total Reduced Sulfurs (Hydrogen Sulfide, Methyl Mercaptan, Dimethyl Sulfide, and Dimethyl Disulfide) in Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2-19	2.8	38
209	Solubility of carbon dioxide in aqueous solutions of 2-amino-2-hydroxymethyl-1,3-propanediol. <i>Fluid Phase Equilibria</i> , 2008 , 268, 121-129	2.5	37
208	Cyclic operation of trickle bed reactors: A review. <i>Chemical Engineering Science</i> , 2014 , 115, 205-214	4.4	35
207	Catalytic wet oxidation: micro/meso/macro methodology from catalyst synthesis to reactor design. <i>Topics in Catalysis</i> , 2005 , 33, 109-134	2.3	35
206	Accurate and direct quantification of native brucite in serpentine ores New methodology and implications for CO ₂ sequestration by mining residues. <i>Thermochimica Acta</i> , 2013 , 566, 281-291	2.9	34
205	Electrochemical behavior of gold cyanidation in the presence of a sulfide-rich industrial ore versus its major constitutive sulfide minerals. <i>Hydrometallurgy</i> , 2010 , 101, 108-119	4	34
204	Hydrodynamics of gas/liquid cocurrent downflow in floating packed beds. <i>Chemical Engineering Science</i> , 2015 , 137, 665-676	4.4	33
203	Emulation of gas-liquid flow in packed beds for offshore floating applications using a swell simulation hexapod. <i>AIChE Journal</i> , 2015 , 61, 2354-2367	3.6	33
202	Monitoring Filtration in Trickle Beds Using Electrical Capacitance Tomography. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1140-1153	3.9	33
201	Improving the prediction of liquid back-mixing in trickle-bed reactors using a neural network approach. <i>Journal of Chemical Technology and Biotechnology</i> , 2002 , 77, 989-998	3.5	33
200	Flooding Capacity in Packed Towers: Database, Correlations, and Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 476-487	3.9	33
199	Nesquehonite as a carbon sink in ambient mineral carbonation of ultramafic mining wastes. <i>Chemical Engineering Journal</i> , 2017 , 314, 160-168	14.7	32
198	Hydrodynamics of co-current two-phase flow in an inclined rotating tubular fixed bed reactor Wetting intermittency via periodic catalyst immersion. <i>Chemical Engineering Science</i> , 2015 , 128, 147-158	4.4	32

197	Ionic-liquid collectors for rare-earth minerals flotation?Case of tetrabutylammonium bis(2-ethylhexyl)-phosphate for monazite and bastn�ite recovery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 506, 74-86	5.1	32
196	Untangling galvanic and passivation phenomena induced by sulfide minerals on precious metal leaching using a new packed-bed electrochemical cyanidation reactor. <i>Hydrometallurgy</i> , 2011 , 107, 101-111	4.1	31
195	Propagation of slow/fast-mode solitary liquid waves in trickle beds via electrical capacitance tomography and computational fluid dynamics. <i>Chemical Engineering Science</i> , 2010 , 65, 1144-1150	4.4	31
194	Three-Phase Fluidization Macroscopic Hydrodynamics Revisited. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 993-1008	3.9	31
193	Biomass torrefaction and CO2 capture using mining wastes A new approach for reducing greenhouse gas emissions of co-firing plants. <i>Fuel</i> , 2014 , 115, 749-757	7.1	30
192	Impact of temperature and oxygen availability on the dynamics of ambient CO2 mineral sequestration by nickel mining residues. <i>Chemical Engineering Journal</i> , 2014 , 240, 394-403	14.7	30
191	CFD study and experimental validation of trickle bed hydrodynamics under gas, liquid and gas/liquid alternating cyclic operations. <i>Chemical Engineering Science</i> , 2013 , 89, 158-170	4.4	28
190	Controlling lateral nanomixing and velocity profile of dilute ferrofluid capillary flows in uniform stationary, oscillating and rotating magnetic fields. <i>Chemical Engineering Journal</i> , 2013 , 223, 454-466	14.7	27
189	Fines deposition dynamics in gas-liquid trickle-flow reactors. <i>AIChE Journal</i> , 2003 , 49, 485-495	3.6	27
188	Inhibition and Deactivation Effects in Catalytic Wet Oxidation of High-Strength Alcohol-Distillery Liquors. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 2268-2274	3.9	27
187	Solids mixing in gas-liquid-solid fluidized beds: Experiments and modelling. <i>Chemical Engineering Science</i> , 1996 , 51, 2011-2020	4.4	27
186	Effet de la pression sur la transition ruisselant-puls� dans les r�acteurs catalytiques �lit fixe arros�. <i>Canadian Journal of Chemical Engineering</i> , 1993 , 71, 319-321	2.3	27
185	Kinetics of Methane Nonoxidative Aromatization over RuMo/HZSM-5 Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 3203-3209	3.9	26
184	Hydrodynamics of an inclined gas-liquid cocurrent upflow packed bed. <i>Chemical Engineering Science</i> , 2013 , 102, 397-404	4.4	25
183	Studies of CO2 absorption and effective interfacial area in a two-stage rotating packed bed with nickel foam packing. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 90, 34-40	3.7	25
182	Two-Phase Frictional Pressure Drop in Flooded-Bed Reactors: A State-of-the-art Correlation. <i>Chemical Engineering and Technology</i> , 1998 , 21, 887-893	2	25
181	Slow-mode induced pulsing in trickle-bed reactors at elevated temperature. <i>AIChE Journal</i> , 2006 , 52, 3891-3901	3.6	25
180	Interfacial mass transfer in randomly packed towers: a confident correlation for environmental applications. <i>Environmental Science & Technology</i> , 2001 , 35, 4817-22	10.3	25

179	Hydrodynamics of countercurrent gas-liquid flow in inclined packed beds – A prospect for stretching flooding capacity with small packings. <i>Chemical Engineering Science</i> , 2015 , 138, 256-265	4.4	24
178	CO ₂ hydration by immobilized carbonic anhydrase in Robinson-Mahoney and packed-bed scrubbers – Role of mass transfer and inhibitor removal. <i>Chemical Engineering Science</i> , 2012 , 73, 99-115	4.4	24
177	Classifying flow regimes in three-phase fluidized beds from CARPT experiments. <i>Chemical Engineering Science</i> , 2007 , 62, 7523-7529	4.4	24
176	Prediction of Minimum Fluidization Velocity in Three-Phase Fluidized-Bed Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 563-572	3.9	24
175	Reducing Taylor dispersion in capillary laminar flows using magnetically excited nanoparticles: Nanomixing mechanism for micro/nanoscale applications. <i>Chemical Engineering Journal</i> , 2012 , 203, 492-498	14.7	23
174	Reconciliation Procedure for Gas-Liquid Interfacial Area and Mass-Transfer Coefficient in Randomly Packed Towers. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 4911-4920	3.9	23
173	Effects of heat treatment and acid washing on properties and reactivity of charcoal. <i>Biomass and Bioenergy</i> , 2016 , 90, 101-113	5.3	23
172	Hydrodynamics of gas-liquid micro-fixed beds – Measurement approaches and technical challenges. <i>Chemical Engineering Journal</i> , 2013 , 223, 425-435	14.7	22
171	Capillary electrophoretic separation of inorganic sulfur-sulfide, polysulfides, and sulfur-oxygen species. <i>Journal of Separation Science</i> , 2006 , 29, 144-52	3.4	22
170	Biomass accumulation and clogging in trickle-bed bioreactors. <i>AIChE Journal</i> , 2004 , 50, 2541-2551	3.6	22
169	Emulation of ambient carbon dioxide diffusion and carbonation within nickel mining residues. <i>Minerals Engineering</i> , 2014 , 59, 39-44	4.9	21
168	Giant effective liquid-self diffusion in stagnant liquids by magnetic nanomixing. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 71, 77-82	3.7	21
167	Remotely excited magnetic nanoparticles and gas-liquid mass transfer in Taylor flow regime. <i>Chemical Engineering Science</i> , 2013 , 93, 257-265	4.4	21
166	Cyclic operation strategy for extending cycle life of trickle beds under gas-liquid filtration. <i>Chemical Engineering Science</i> , 2007 , 62, 7426-7435	4.4	21
165	CFD modeling and simulation of clogging in packed beds with nonaqueous media. <i>AIChE Journal</i> , 2002 , 48, 1596-1609	3.6	21
164	Multivariate study of the dynamics of CO ₂ reaction with brucite-rich ultramafic mine tailings. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 52, 110-119	4.2	21
163	Process intensification of gas-liquid downflow and upflow packed beds by a new low-shear rotating reactor concept. <i>AIChE Journal</i> , 2017 , 63, 283-294	3.6	20
162	X-ray Photoelectron Spectroscopy, Photoelectron Energy Loss Spectroscopy, X-ray Excited Auger Electron Spectroscopy, and Time-of-Flight Secondary Ion Mass Spectroscopy Studies of Asphaltene from Doba Chad Heavy Crude Hydrovisbreaking. <i>Energy & Fuels</i> , 2004 , 18, 1744-1756	4.1	20

161	Three-dimensional simulations of gas-liquid cocurrent downflow in vertical, inclined, and oscillating packed beds. <i>AIChE Journal</i> , 2016 , 62, 916-927	3.6	20
160	Liquid microflow inside the packing of a rotating packed bed reactor: Computational, observational and experimental studies. <i>Chemical Engineering Journal</i> , 2020 , 386, 121134	14.7	20
159	Liquid-liquid mineral separation via ionic-liquid complexation of monazite and bastnaesite: An alternate route for rare-earth mineral beneficiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 520, 301-323	5.1	18
158	Cyclic operation strategies in inclined and moving packed beds: Potential marine applications for floating systems. <i>AIChE Journal</i> , 2016 , 62, 4157-4172	3.6	18
157	Enzymatic CO ₂ capture by immobilized hCA II in an intensified microreactor: Kinetic study of the catalytic hydration. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 15, 78-85	4.2	18
156	New tools for stimulating dissolution and carbonation of ultramafic mining residues. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 2029-2038	2.3	18
155	Flow Structure of the Solids in a Three-Dimensional Liquid Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4695-4704	3.9	18
154	Theory of trickle-bed magnetohydrodynamics under magnetic-field gradients. <i>AIChE Journal</i> , 2003 , 49, 1525-1532	3.6	18
153	Dry reforming of methane with a new catalyst derived from a negative value mining residue spinellized with nickel. <i>Catalysis Today</i> , 2017 , 291, 86-98	5.3	17
152	A novel inclined rotating tubular fixed bed reactor concept for enhancement of reaction rates and adjustment of flow regimes. <i>Chemical Engineering Journal</i> , 2015 , 281, 931-944	14.7	17
151	Immiscible dual ionic liquid-ionic liquid mineral separation of rare-earth minerals. <i>Separation and Purification Technology</i> , 2018 , 191, 340-353	8.3	17
150	Two-phase flow hydrodynamic study in micro-packed beds: Effect of bed geometry and particle size. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014 , 78, 27-36	3.7	17
149	Ambient mineral carbonation of different lithologies of mafic to ultramafic mining wastes/tailings: A comparative study. <i>International Journal of Greenhouse Gas Control</i> , 2017 , 63, 392-400	4.2	17
148	Hydrodynamics of Gas-Liquid Cocurrent Flows in Micropacked Beds: Wall Visualization Study. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16495-16504	3.9	17
147	Integrated aqueous-phase glycerol reforming to dimethyl ether synthesis: A novel allothermal dual bed membrane reactor concept. <i>Chemical Engineering Journal</i> , 2012 , 187, 311-327	14.7	17
146	Multicomponent multicompartment model for Fischer-Tropsch SCBR. <i>AIChE Journal</i> , 2007 , 53, 2062-2083	3.6	17
145	Flow regime transition pointers in three-phase fluidized beds inferred from a solid tracer trajectory. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006 , 45, 350-358	3.7	17
144	Usability of ECT for quantitative and qualitative characterization of trickle-bed flow dynamics subject to filtration conditions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2006 , 45, 538-545	3.7	17

143	Selective dissolution of rare-earth element carbonates in deep eutectic solvents. <i>Journal of Rare Earths</i> , 2019 , 37, 528-533	3.7	17
142	Hydrocarbon hydrodesulfurization in vertical, inclined and oscillating trickle beds □Hydrodynamics & reactor performance for offshore petroleum marine applications. <i>Fuel</i> , 2016 , 186, 35-49	7.1	16
141	Catalytic CO ₂ hydration by immobilized and free human carbonic anhydrase II in a laminar flow microreactor □Model and simulations. <i>Separation and Purification Technology</i> , 2013 , 107, 61-69	8.3	16
140	Kinetic behavior of carbon dioxide absorption in diethanolamine/ionic-liquid emulsions. <i>Separation and Purification Technology</i> , 2013 , 118, 757-761	8.3	16
139	Leveraging strategies to increase gold cyanidation in the presence of sulfide minerals □ Packed-bed electrochemical reactor approach. <i>Hydrometallurgy</i> , 2012 , 111-112, 73-81	4	16
138	Dynamics of filtration in monolith reactors using electrical capacitance tomography. <i>Chemical Engineering Science</i> , 2010 , 65, 504-510	4.4	16
137	Fines Deposition Dynamics in Packed-Bed Bubble Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 2441-2449	3.9	16
136	Hydrodynamics of gas-liquid cocurrent upflow in oscillating packed beds for offshore marine applications. <i>Chemical Engineering Science</i> , 2017 , 170, 583-596	4.4	15
135	Investigation of the mean and turbulent particle velocity fields in a spouted bed using radioactive particle tracking. <i>Canadian Journal of Chemical Engineering</i> , 1998 , 76, 190-195	2.3	15
134	Integrated Genetic Algorithm□Artificial Neural Network Strategy for Modeling Important Multiphase-Flow Characteristics. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 2543-2551	3.9	15
133	Enzyme-mediated CO ₂ capture in oscillating structured packed-bed columns - Hydrodynamics and process performance for offshore applications. <i>Ocean Engineering</i> , 2017 , 144, 157-174	3.9	14
132	Pressure effects on gas-liquid interfacial areas in cocurrent trickle-flow reactors. <i>Chemical Engineering Science</i> , 1992 , 47, 2325-2330	4.4	14
131	CO ₂ abatement in oscillating packed-bed scrubbers: Hydrodynamics and reaction performances for marine applications. <i>AIChE Journal</i> , 2017 , 63, 1064-1076	3.6	13
130	Offshore Floating Packed-Bed Reactors: Key Challenges and Potential Solutions. <i>Chemical Engineering and Technology</i> , 2017 , 40, 1975-1984	2	13
129	Passive Mineral Carbonation of Mg-rich Mine Wastes by Atmospheric CO ₂ . <i>Energy Procedia</i> , 2017 , 114, 6083-6086	2.3	13
128	Noncovalent Immobilization of Optimized Bacterial Cytochrome P450 BM3 on Functionalized Magnetic Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10981-10989	3.9	13
127	Liquid backmixing in an inclined rotating tubular fixed bed reactor □Augmenting liquid residence time via flow regime adjustment. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 94, 2-10	3.7	13
126	The role of multi-sulfidic mineral binary and ternary galvanic interactions in gold cyanidation in a multi-layer packed-bed electrochemical reactor. <i>Hydrometallurgy</i> , 2012 , 113-114, 51-59	4	13

125	Grafted Amine/CO ₂ Interactions in (Gas)LiquidSolid Adsorption/Absorption Equilibria. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21866-21876	3.8	13
124	Stretching operational life of trickle-bed filters by liquid-induced pulse flow. <i>AIChE Journal</i> , 2005 , 51, 2034-2047	3.6	13
123	CFD Simulation and High-Speed Photography of Liquid Flow in the Outer Cavity Zone of a Rotating Packed Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5280-5290	3.9	12
122	Development of a water-selective zeolite composite membrane by a new pore-plugging technique. <i>Microporous and Mesoporous Materials</i> , 2017 , 237, 49-59	5.3	12
121	Enhancing liquid micromixing using low-frequency rotating nanoparticles. <i>AIChE Journal</i> , 2017 , 63, 337-346	3.6	12
120	GasLiquid Partition Coefficients and Henry's Law Constants of DMS in Aqueous Solutions of Fe(II) Chelate Complexes Using the Static Headspace Method. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1700-1705	2.8	12
119	Lowering the Viscosity of DobaLhad Heavy Crude Oil for Pipeline TransportationThe Hydrovisbreaking Approach. <i>Energy & Fuels</i> , 2004 , 18, 1156-1168	4.1	12
118	Modelling the Hydrodynamics of Gas-Liquid Packed Beds via Slit Models: A Review. <i>International Journal of Chemical Reactor Engineering</i> , 2005 , 3,	1.2	12
117	Mean and Turbulent Particle Velocity in the Fully Developed Region of a Three-Phase Fluidized Bed. <i>Chemical Engineering and Technology</i> , 1999 , 22, 683-689	2	12
116	Scrubber Designs for Enzyme-Mediated Capture of CO ₂ . <i>Recent Patents on Chemical Engineering</i> , 2008 , 1, 93-105		12
115	CFD study and experimental validation of multiphase packed bed hydrodynamics in the context of Rolling Sea conditions. <i>AIChE Journal</i> , 2019 , 65, 385-397	3.6	12
114	Capillary electrophoretic analysis of sulfur and cyanicides speciation during cyanidation of gold complex sulfidic ores. <i>Journal of Separation Science</i> , 2008 , 31, 3902-10	3.4	11
113	Solubility of dimethyldisulfide (DMDS) in aqueous solutions of Fe(III) complexes of trans-1,2-cyclohexanediaminetetraacetic acid (CDTA) using the static headspace method. <i>Fluid Phase Equilibria</i> , 2005 , 233, 184-189	2.5	11
112	Liquid saturation data in trickle beds operating under elevated pressure. <i>AIChE Journal</i> , 1991 , 37, 1109-1112	3.1	11
111	CO ₂ and H ₂ S absorption by MEA solution in packed-bed columns under inclined and heaving motion conditions - Hydrodynamics and reactions performance for marine applications. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 79, 1-13	4.2	11
110	Hydrodynamics of inclined packed beds under flow modulation - CFD simulation and experimental validation. <i>AIChE Journal</i> , 2017 , 63, 4161-4176	3.6	10
109	Behavior of bifunctional phosphonium-based ionic liquids in solvent extraction of rare earth elements - quantum chemical study. <i>Journal of Molecular Liquids</i> , 2018 , 263, 96-108	6	10
108	Capacitance wire mesh imaging of bubbly flows for offshore treatment applications. <i>Flow Measurement and Instrumentation</i> , 2015 , 45, 298-307	2.2	10

107	Degradability of Iron(III)-aminopolycarboxylate Complexes in Alkaline Media: Statistical Design and X-ray Photoelectron Spectroscopy Studies. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 5053-5062	3.9	10
106	Reaction between Hydrosulfide and Iron/cerium (hydr)oxide: Hydrosulfide Oxidation and Iron Dissolution Kinetics. <i>Topics in Catalysis</i> , 2006 , 37, 97-106	2.3	10
105	Improving the prediction of irrigated pressure drop in packed absorption towers. <i>Canadian Journal of Chemical Engineering</i> , 2001 , 79, 584-594	2.3	10
104	Role of magnetic nanoparticles in mixing, transport phenomena and reaction engineering □ challenges and opportunities. <i>Current Opinion in Chemical Engineering</i> , 2016 , 13, 91-99	5.4	10
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