

Faal Larachi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Electronic simulations of alanine and water coadsorption over Defect-free and Sulfur-depleted sphalerite surfaces. <i>Applied Surface Science</i> , 2022 , 576, 151899	6.7	1
249	Simulation Algorithm for Water Elutriators: Model Calibration with Plant Data and Operational Simulations. <i>Minerals (Basel, Switzerland)</i> , 2022 , 12, 316	2.4	0
248	Performance of catalytic cycloaddition of CO ₂ to styrene oxide in three-phase co-current (micro)fixed-bed and monolith reactors. <i>Journal of CO₂ Utilization</i> , 2022 , 60, 101977	7.6	0
247	Computational fluid dynamic simulation of gas-liquid flow in rotating packed bed: A review. <i>Chinese Journal of Chemical Engineering</i> , 2021 ,	3.2	3
246	How Do Surface Defects Change Local Wettability of the Hydrophilic ZnS Surface? Insights into Sphalerite Flotation from Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 998-1009	3.8	4
245	Reaction-Diffusion Model for Gasification of a Shrinking Single Carbon-Anode Particle. <i>ACS Omega</i> , 2021 , 6, 8002-8015	3.9	1
244	Multistep concentration of lizardite/antigorite from chrysotile mine tailings base of the Carey Mine site in East-Broughton (Quebec). <i>International Journal of Chemical Reactor Engineering</i> , 2021 , 19, 483-498	1.2	
243	Mechanism of Liquid Dispersion Enhancement by the Hydrophobic Wire Mesh at Macro- and Micro-Scale. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 8927-8934	3.9	
242	Insights into the Solubility of Carbon Dioxide in Grafted Mesoporous Silica for the Catalytic Synthesis of Cyclic Carbonates by Nanoconfinement. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27019-27028	9.5	4
241	Efficient Displacement of Fluids Using a Viscous Shear-Thinning Spacer. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 10376-10392	3.9	1
240	A continuous-flow surface flotation cell for the separation of scanty mineral samples based on wettability contrast. <i>Canadian Journal of Chemical Engineering</i> , 2021 , 99, 1490-1497	2.3	1
239	Sorption of aqueous amino acid species on sulphidic mineral surfaces DFT study and insights on biosourced-reagent mineral flotation. <i>Canadian Journal of Chemical Engineering</i> , 2021 , 99, 1758-1779	2.3	3
238	Styrene hydrogenation in inclined packed-bed bubble reactors: A reaction-transport model for the catalytic hydrogenation of pyrolysis gasoline on-board floating reactors. <i>Canadian Journal of Chemical Engineering</i> , 2021 , 99, 1792-1810	2.3	0
237	Chemical transformation and dissociation of amino acids on metal sulfide surface: Insights from DFT into the effect of surface vacancies on alanine-sphalerite system. <i>Applied Surface Science</i> , 2021 , 540, 148304	6.7	10
236	Enhanced Enzymatic Synthesis of Nicotinamide in Laminar Flow Intensified Microreactors: Models and Simulations. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12210-12219	3.9	1
235	A comparative study on the performance of M (Rh, Ru, Ni)-promoted metallurgical waste driven catalysts for H ₂ production by glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 32017-32035	6.7	8
234	Influence of Rotational and Translational Oscillations on the Drainage of Liquid in Floating Packed Beds. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1452-1462	3.9	2

233	Selective Recovery of Molybdenum over Rhenium from Molybdenite Flue Dust Leaching Solution Using PC88A Extractant. <i>Metals</i> , 2020 , 10, 1423	2.3	5
232	Bio-Foam Internals for Potential Water Treatment Units Adapted to Marine Applications: Hydrodynamic Study. <i>Theoretical Foundations of Chemical Engineering</i> , 2020 , 54, 104-115	0.9	0
231	Ni-Fe catalyst derived from mixed oxides Fe/Mg-bearing metallurgical waste for hydrogen production by steam reforming of biodiesel by-product: Investigation of catalyst synthesis parameters and temperature dependency of the reaction network. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119330	21.8	8
230	DFT simulations of pyrite galvanic interactions with bulk, solid-solution and nanoparticle Au occurrences Insights into gold cyanidation. <i>Minerals Engineering</i> , 2020 , 149, 106239	4.9	7
229	Residence time distribution of passive scalars in magnetic nanofluid Poiseuille flow under uniform rotating magnetic fields. <i>Chemical Engineering Science</i> , 2020 , 224, 115770	4.4	2
228	Enhanced Methanol Synthesis Process via an Integrated Process Involving CO ₂ Hydrogenation under Plasma Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6815-6827	3.9	4
227	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
226	Tracer dispersion in trickle beds under tilts and roll motions [CFD study and experimental validation. <i>Chemical Engineering Journal</i> , 2020 , 386, 122845	14.7	3
225	Anomalous anisotropic transport of scalars in dilute ferrofluids under uniform rotating magnetic fields [Mixing time measurements and ferrohydrodynamic simulations. <i>Chemical Engineering Journal</i> , 2020 , 380, 122504	14.7	5
224	Bubble Behavior in Marine Applications of Bubble Columns: Case of Ellipsoidal Bubbles in Slanted and Rolling Columns. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2343-2355	3.9	2
223	110th Anniversary: Marinization of Multiphase Reactors through the Prism of Chemical Engineers. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2607-2630	3.9	6
222	Galvanic interaction of pyrite with Cu activated sphalerite and its effect on xanthate adsorption. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2671-2677	2.3	2
221	Modeling and Simulations of NO _x and SO ₂ Seawater Scrubbing in Packed-Bed Columns for Marine Applications. <i>Catalysts</i> , 2019 , 9, 489	4	7
220	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
219	Gas-liquid mass-transfer behavior of packed-bed scrubbers for floating/offshore CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019 , 377, 119236	14.7	9
218	Assessment of the Resilience against Liquid Maldistribution of Monolith Packings under Offshore Floating Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 21739-21751	3.9	3
217	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
216	Kinetics of Enzymatic Hydroxylation by Free and MNPs-Immobilized NADH-Dependent Cytochrome P450 BM3 from <i>Bacillus megaterium</i> . <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 808-815	3.9	2

215	Selective dissolution of rare-earth element carbonates in deep eutectic solvents. <i>Journal of Rare Earths</i> , 2019 , 37, 528-533	3.7	17
214	Surface Speciation of Brucite Dissolution in Aqueous Mineral Carbonation: Insights from Density-Functional Theory Simulations. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 889-905	2.8	10
213	Hydrodynamics and Reaction Performances of Multiphase Reactors for Marine Applications [A Review]. <i>International Journal of Chemical Reactor Engineering</i> , 2019 , 17,	1.2	4
212	The effect of flotation collectors on the electrochemical dissolution of gold during cyanidation. <i>Minerals Engineering</i> , 2019 , 130, 48-56	4.9	4
211	Covalent immobilization of cytochrome P450 BM3 (R966D/W1046S) on glutaraldehyde activated SPIONs. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2227-2235	2.3	5
210	Impact of silver sulphides on gold cyanidation with polymetal sulphides. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 542-555	3.3	9
209	Cyanidation of Gold Associated with Silver Minerals in Sulfide Mineral Matrices. <i>Chemical Engineering and Technology</i> , 2018 , 41, 1282-1293	2	4
208	The effect of pyrite particle size on the electrochemical dissolution of gold during cyanidation. <i>Hydrometallurgy</i> , 2018 , 175, 367-375	4	8
207	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
206	The role of silver minerals on the cyanidation of gold particles embedded within multi-sulphidic mineral matrices. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2299-2307	2.3	3
205	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
204	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
203	Prospect of open-cell solid foams for floating-platform multiphase reactor applications [Maldistribution susceptibility and hydrodynamic behavior. <i>Chemical Engineering Journal</i> , 2018 , 332, 596-607	14.7	9
202	Atmospheric Carbon Mineralization in an Industrial-Scale Chrysotile Mining Waste Pile. <i>Environmental Science & Technology</i> , 2018 , 52, 8050-8057	10.3	8
201	Fischer-Tropsch synthesis in vertical, inclined and oscillating trickle-bed reactors for offshore floating applications. <i>Chemical Engineering Science</i> , 2018 , 177, 509-522	4.4	9
200	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
199	A Journey across Food & Chemical Engineering Dyad: Symposium in memory of Professor Khaled Belkacemi. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2125-2126	2.3	0
198	Thermal regeneration of amines in vertical, inclined and oscillating CO ₂ packed-bed strippers for offshore floating applications. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 74, 229-250	4.2	8

197	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
196	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
195	Liquid-liquid mineral separation via ionic-liquid complexation of monazite and bastn�site. 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
194	Impact of silver sulphide on gold cyanidation with conductive sulphide minerals. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 1875-1884	2.3	5
193	CO2 abatement in oscillating packed-bed scrubbers: Hydrodynamics and reaction performances for marine applications. <i>AIChE Journal</i> , 2017 , 63, 1064-1076	3.6	13
192	Offshore Floating Packed-Bed Reactors: Key Challenges and Potential Solutions. <i>Chemical Engineering and Technology</i> , 2017 , 40, 1975-1984	2	13
191	Pyrolysis Kinetics of Pre-Torrefied Woody Biomass Based on Torrefaction Severity Experiments and Model Verification. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12972-12983	3.9	3
190	Hydrodynamics of inclined packed beds under flow modulation - CFD simulation and experimental validation. <i>AIChE Journal</i> , 2017 , 63, 4161-4176	3.6	10
189	Effect of silver on gold cyanidation in mixed and segregated sulphidic minerals. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 698-707	2.3	6
188	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
187	Passive Mineral Carbonation of Mg-rich Mine Wastes by Atmospheric CO2. <i>Energy Procedia</i> , 2017 , 114, 6083-6086	2.3	13
186	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
185	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
184	Tuning mass transport in magnetic nanoparticle-filled viscoelastic hydrogels using low-frequency rotating magnetic fields. <i>Soft Matter</i> , 2017 , 13, 6259-6269	3.6	6
183	Preface of the 66th Canadian Chemical Engineering Conference: Sustainability and Prosperity. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 1841-1841	2.3	0
182	Enzyme-mediated CO2 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
181	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
180	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

179	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
178	Enhancing liquid micromixing using low-frequency rotating nanoparticles. <i>AIChE Journal</i> , 2017 , 63, 337-346	3.6	12
177	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
176	Three-phase fixed-bed reactors 2016 , 95-131		4
175	Ionic-liquid collectors for rare-earth minerals flotation? Case of tetrabutylammonium bis(2-ethylhexyl)-phosphate for monazite and bastnäsite recovery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 506, 74-86	5.1	32
174	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
173	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
172	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
171	Two-fluid simulation of liquid drainage in oscillating packed beds for offshore floating applications. <i>Chemical Engineering Science</i> , 2016 , 149, 51-62	4.4	7
170	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
169	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
168	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
167	Liquid residence time distribution in a two-compartment wastewater treatment bioreactor. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 599-612	2.3	5
166	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
165	Hydrodynamics of gas-liquid cocurrent downflow in floating packed beds. <i>Chemical Engineering Science</i> , 2015 , 137, 665-676	4.4	33
164	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
163	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
162	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

161	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
160	Traitement solvothermique superficiel de la biomasse lignocellulosique dans les liquides ioniques – Hygroscopicité, morphologie et propriétés mécaniques. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 29-36	2.3	
159	Inception of vortical coherent structures from spinning magnetic nanoparticles in rotating magnetic fields – New nanofluid microscale mixing tool. <i>Chemical Engineering Journal</i> , 2015 , 260, 338-346	14.7	7
158	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
157	Allothermal Fluidized Bed Reactor for Steam Gasification of Biomass. <i>Instrumentation Science and Technology</i> , 2015 , 43, 390-428	1.4	4
156	Studies of CO ₂ 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
155	Capacitance wire mesh imaging of bubbly flows for offshore treatment applications. <i>Flow Measurement and Instrumentation</i> , 2015 , 45, 298-307	2.2	10
154	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
153	Emulation of ambient carbon dioxide diffusion and carbonation within nickel mining residues. <i>Minerals Engineering</i> , 2014 , 59, 39-44	4.9	21
152	Cyclic operation of trickle bed reactors: A review. <i>Chemical Engineering Science</i> , 2014 , 115, 205-214	4.4	35
151	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
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	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
148	Detection and Identification of Cobalt Cyanide Complexes using Capillary Electrophoresis. <i>Separation Science and Technology</i> , 2014 , 49, 691-701	2.5	4
147	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
146	Efficient strategies to enhance gold leaching during cyanidation of multi-sulfidic ores. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 1687-1692	2.3	8
145	Torréfaction de la biomasse lignocellulosique dans les liquides ioniques: Analyse comparative par spectroscopies de surface. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 1839-1858	2.3	1
144	Biomass torrefaction and CO ₂ 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

143	Impact of temperature and oxygen availability on the dynamics of ambient CO ₂ mineral sequestration by nickel mining residues. <i>Chemical Engineering Journal</i> , 2014 , 240, 394-403	14.7	30
142	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
141	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
140	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
139	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
138	Hydrodynamics of an inclined gas-liquid cocurrent upflow packed bed. <i>Chemical Engineering Science</i> , 2013 , 102, 397-404	4.4	25
137	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
136	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
135	Kinetic behavior of carbon dioxide absorption in diethanolamine/ionic-liquid emulsions. <i>Separation and Purification Technology</i> , 2013 , 118, 757-761	8.3	16
134	Hydrodynamics of gas-liquid micro-fixed beds [Measurement approaches and technical challenges. <i>Chemical Engineering Journal</i> , 2013 , 223, 425-435	14.7	22
133	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
132	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
131	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
130	Distillation studies in a two-stage counter-current rotating packed bed. <i>Separation and Purification Technology</i> , 2013 , 102, 62-66	8.3	45
129	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
128	Catalytic Wet Oxidation in Three-Phase Moving-Bed Reactors: Modeling Framework and Simulations for On-Stream Replacement of a Deactivating Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 121220085307008	3.9	
127	Prediction of Solids Accumulation in Slurry Bubble Columns with Polydispersed Solid Loadings. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13100-13112	3.9	
126	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

125	CO2 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
124	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
123	Stabilization of basic oxygen furnace slag by hot-stage carbonation treatment. <i>Chemical Engineering Journal</i> , 2012 , 203, 239-250	14.7	96
122	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
121	CO2 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
120	CO2 capture in alkanolamine-RTIL blends via carbamate crystallization: route to efficient regeneration. <i>Environmental Science & Technology</i> , 2012 , 46, 11443-50	10.3	58
119	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
118	CO2 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
117	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
116	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
115	CO2-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
114	Determination of free cyanide and zinc cyanide complex by capillary electrophoresis. <i>Journal of Separation Science</i> , 2011 , 34, 1568-73	3.4	6
113	Modulation of suspension electrical conductivity to counter fines plugging in trickle-bed reactors. <i>AIChE Journal</i> , 2011 , 57, 1829-1839	3.6	6
112	Sorption-enhanced dimethyl ether synthesis Multiscale reactor modeling. <i>Chemical Engineering Science</i> , 2011 , 66, 2241-2251	4.4	54
111	Carbon sequestration kinetic and storage capacity of ultramafic mining waste. <i>Environmental Science & Technology</i> , 2011 , 45, 9413-20	10.3	85
110	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
109	ANALYSIS OF FORCED GAS COMPOSITION PERTURBATIONS ON THE CALIBRATION OF A QUADRUPOLE MASS SPECTROMETER: APPLICATION TO GASES EVOLVING FROM BIOMASS GASIFICATION. <i>Instrumentation Science and Technology</i> , 2011 , 39, 121-134	1.4	2
108	Fixation of CO2 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

107	Co-current descending two-phase flows in inclined packed beds: Experiments versus simulations. <i>Canadian Journal of Chemical Engineering</i> , 2010 , 88, n/a-n/a	2.3	3
106	CFD simulations of hydrodynamic/thermal coupling phenomena in a bubble column with internals. <i>AIChE Journal</i> , 2010 , 56, NA-NA	3.6	2
105	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
104	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
103	Dynamics of filtration in monolith reactors using electrical capacitance tomography. <i>Chemical Engineering Science</i> , 2010 , 65, 504-510	4.4	16
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