

# Faizal Larachi

## List of Publications by Year in descending order

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255  
papers

7,094  
citations

66315

42  
h-index

88593

70  
g-index

256  
all docs

256  
docs citations

256  
times ranked

4107  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spreading of point-source liquid spills in a thin rectangular packed bed under simulated marine conditions. <i>AIChE Journal</i> , 2023, 69, e17424.	1.8	3
2	Numerical simulations of the spread of point-source liquid spills in inclined and rolling rectangular packed beds. <i>Canadian Journal of Chemical Engineering</i> , 2023, 101, 1541-1554.	0.9	0
3	Experiments and simulation of liquid drainage in oscillating packed beds under roll and heave motions. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, .	0.9	2
4	Computational fluid dynamic simulation of gas-liquid flow in rotating packed bed: A review. <i>Chinese Journal of Chemical Engineering</i> , 2022, 41, 85-108.	1.7	10
5	Electronic simulations of alanine and water coadsorption over Defect-free and Sulfur-depleted sphalerite surfaces. <i>Applied Surface Science</i> , 2022, 576, 151899.	3.1	6
6	Simulation Algorithm for Water Elutriators: Model Calibration with Plant Data and Operational Simulations. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 316.	0.8	1
7	Performance of catalytic cycloaddition of CO <sub>2</sub> to styrene oxide in three-phase co-current (micro)fixed-bed and monolith reactors. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 60, 101977.	3.3	7
8	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.	0.9	2
9	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.	0.9	7
10	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.	0.9	4
11	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.	3.1	15
12	Reaction-Diffusion Model for Gasification of a Shrinking Single Carbon-Anode Particle. <i>ACS Omega</i> , 2021, 6, 8002-8015.	1.6	5
13	Multistep concentration of lizardite/antigorite from chrysotile mine tailings—case of the Carey Mine site in East-Broughton (Québec). <i>International Journal of Chemical Reactor Engineering</i> , 2021, 19, 483-498.	0.6	0
14	Mechanism of Liquid Dispersion Enhancement by the Hydrophobic Wire Mesh at Macro- and Micro-Scale. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 8927-8934.	1.8	0
15	Insights into the Solubility of Carbon Dioxide in Grafted Mesoporous Silica for the Catalytic Synthesis of Cyclic Carbonates by Nanoconfinement. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 27019-27028.	4.0	9
16	Efficient Displacement of Fluids Using a Viscous Shear-Thinning Spacer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 10376-10392.	1.8	4
17	Enhanced Enzymatic Synthesis of Nicotinamide in Laminar Flow Intensified Microreactors: Models and Simulations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 12210-12219.	1.8	1
18	A comparative study on the performance of M (Rh, Ru, Ni)-promoted metallurgical waste driven catalysts for H <sub>2</sub> production by glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32017-32035.	3.8	22

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19	Influence of Rotational and Translational Oscillations on the Drainage of Liquid in Floating Packed Beds. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 1452-1462.	1.8	5
20	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.	1.5	11
21	Liquid microflow inside the packing of a rotating packed bed reactor: Computational, observational and experimental studies. <i>Chemical Engineering Journal</i> , 2020, 386, 121134.	6.6	32
22	Tracer dispersion in trickle beds under tilts and roll motions – CFD study and experimental validation. <i>Chemical Engineering Journal</i> , 2020, 386, 122845.	6.6	5
23	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.	6.6	7
24	Enhanced Methanol Synthesis Process via an Integrated Process Involving CO <sub>2</sub> Hydrogenation under Plasma Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 6815-6827.	1.8	9
25	Selective Recovery of Molybdenum over Rhenium from Molybdenite Flue Dust Leaching Solution Using PC88A Extractant. <i>Metals</i> , 2020, 10, 1423.	1.0	10
26	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.	0.2	1
27	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.	10.8	17
28	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.	1.8	22
29	Residence time distribution of passive scalars in magnetic nanofluid Poiseuille flow under uniform rotating magnetic fields. <i>Chemical Engineering Science</i> , 2020, 224, 115770.	1.9	4
30	Gas-liquid mass-transfer behavior of packed-bed scrubbers for floating/offshore CO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , 2019, 377, 119236.	6.6	19
31	Assessment of the Resilience against Liquid Maldistribution of Monolith Packings under Offshore Floating Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 21739-21751.	1.8	7
32	Bubble Behavior in Marine Applications of Bubble Columns: Case of Ellipsoidal Bubbles in Slanted and Rolling Columns. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 2343-2355.	1.8	4
33	110th Anniversary: Marinization of Multiphase Reactors through the Prism of Chemical Engineers. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 2607-2630.	1.8	12
34	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.	0.9	4
35	Modeling and Simulations of NO <sub>x</sub> and SO <sub>2</sub> Seawater Scrubbing in Packed-Bed Columns for Marine Applications. <i>Catalysts</i> , 2019, 9, 489.	1.6	18
36	CFD Simulation and High-Speed Photography of Liquid Flow in the Outer Cavity Zone of a Rotating Packed Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 5280-5290.	1.8	19

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37	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.	1.8	16
38	Kinetics of Enzymatic Hydroxylation by Free and MNPs-Immobilized NADH-Dependent Cytochrome P450 BM3 from <i>Bacillus megaterium</i> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 808-815.	1.8	2
39	Selective dissolution of rare-earth element carbonates in deep eutectic solvents. <i>Journal of Rare Earths</i> , 2019, 37, 528-533.	2.5	40
40	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.	1.1	14
41	Hydrodynamics and Reaction Performances of Multiphase Reactors for Marine Applications – A Review. <i>International Journal of Chemical Reactor Engineering</i> , 2019, 17, .	0.6	4
42	The effect of flotation collectors on the electrochemical dissolution of gold during cyanidation. <i>Minerals Engineering</i> , 2019, 130, 48-56.	1.8	10
43	Covalent immobilization of cytochrome P450 BM3 (R966D/W1046S) on glutaraldehyde activated SPIONs. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 2227-2235.	0.9	5
44	Impact of silver sulphides on gold cyanidation with polymetal sulphides. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 542-555.	1.7	10
45	Cyanidation of Gold Associated with Silver Minerals in Sulfide Mineral Matrices. <i>Chemical Engineering and Technology</i> , 2018, 41, 1282-1293.	0.9	4
46	The effect of pyrite particle size on the electrochemical dissolution of gold during cyanidation. <i>Hydrometallurgy</i> , 2018, 175, 367-375.	1.8	14
47	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.	2.3	17
48	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.	0.9	5
49	Immiscible dual ionic liquid-ionic liquid mineral separation of rare-earth minerals. <i>Separation and Purification Technology</i> , 2018, 191, 340-353.	3.9	22
50	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.	2.3	80
51	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.	6.6	11
52	Fischer-Tropsch synthesis in vertical, inclined and oscillating trickle-bed reactors for offshore floating applications. <i>Chemical Engineering Science</i> , 2018, 177, 509-522.	1.9	14
53	CO <sub>2</sub> and H <sub>2</sub> 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.	2.3	20
54	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.	0.9	2

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55	Thermal regeneration of amines in vertical, inclined and oscillating CO <sub>2</sub> packed-bed strippers for offshore floating applications. <i>International Journal of Greenhouse Gas Control</i> , 2018, 74, 229-250.	2.3	10
56	Atmospheric Carbon Mineralization in an Industrial-Scale Chrysotile Mining Waste Pile. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8050-8057.	4.6	13
57	Nesquehonite as a carbon sink in ambient mineral carbonation of ultramafic mining wastes. <i>Chemical Engineering Journal</i> , 2017, 314, 160-168.	6.6	46
58	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.	2.2	19
59	Liquid-liquid mineral separation via ionic-liquid complexation of monazite and bastnÃsite. An alternate route for rare-earth mineral beneficiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 301-323.	2.3	26
60	Impact of silver sulphide on gold cyanidation with conductive sulphide minerals. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1875-1884.	0.9	6
61	CO <sub>2</sub> abatement in oscillating packed-bed scrubbers: Hydrodynamics and reaction performances for marine applications. <i>AIChE Journal</i> , 2017, 63, 1064-1076.	1.8	18
62	Offshore Floating Packed-Bed Reactors: Key Challenges and Potential Solutions. <i>Chemical Engineering and Technology</i> , 2017, 40, 1975-1984.	0.9	15
63	Pyrolysis Kinetics of Pre-Torrefied Woody Biomass Based on Torrefaction Severity. Experiments and Model Verification. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 12972-12983.	1.8	3
64	Hydrodynamics of inclined packed beds under flow modulation - CFD simulation and experimental validation. <i>AIChE Journal</i> , 2017, 63, 4161-4176.	1.8	12
65	Effect of silver on gold cyanidation in mixed and segregated sulphidic minerals. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 698-707.	0.9	8
66	Hydrodynamics of gas-liquid cocurrent upflow in oscillating packed beds for offshore marine applications. <i>Chemical Engineering Science</i> , 2017, 170, 583-596.	1.9	18
67	Passive Mineral Carbonation of Mg-rich Mine Wastes by Atmospheric CO <sub>2</sub> . <i>Energy Procedia</i> , 2017, 114, 6083-6086.	1.8	19
68	Noncovalent Immobilization of Optimized Bacterial Cytochrome P450 BM3 on Functionalized Magnetic Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 10981-10989.	1.8	13
69	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.	10.8	80
70	Tuning mass transport in magnetic nanoparticle-filled viscoelastic hydrogels using low-frequency rotating magnetic fields. <i>Soft Matter</i> , 2017, 13, 6259-6269.	1.2	6
71	Preface of the 66 <sup>th</sup> Canadian Chemical Engineering Conference: "Sustainability and Prosperity". <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1841-1841.	0.9	1
72	Enzyme-mediated CO <sub>2</sub> capture in oscillating structured packed-bed columns - Hydrodynamics and process performance for offshore applications. <i>Ocean Engineering</i> , 2017, 144, 157-174.	1.9	16

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73	Ambient mineral carbonation of different lithologies of mafic to ultramafic mining wastes/tailings â€“ A comparative study. International Journal of Greenhouse Gas Control, 2017, 63, 392-400.	2.3	27
74	Development of a water-selective zeolite composite membrane by a new pore-plugging technique. Microporous and Mesoporous Materials, 2017, 237, 49-59.	2.2	14
75	Process intensification of gasâ€“liquid downflow and upflow packed beds by a new lowâ€“shear rotating reactor concept. AIChE Journal, 2017, 63, 283-294.	1.8	22
76	Enhancing liquid micromixing using lowâ€“frequency rotating nanoparticles. AIChE Journal, 2017, 63, 337-346.	1.8	14
77	Threeâ€“dimensional simulations of gasâ€“liquid cocurrent downflow in vertical, inclined, and oscillating packed beds. AIChE Journal, 2016, 62, 916-927.	1.8	23
78	Two-fluid simulation of liquid drainage in oscillating packed beds for offshore floating applications. Chemical Engineering Science, 2016, 149, 51-62.	1.9	8
79	Effects of heat treatment and acid washing on properties and reactivity of charcoal. Biomass and Bioenergy, 2016, 90, 101-113.	2.9	27
80	Role of magnetic nanoparticles in mixing, transport phenomena and reaction engineering â€“ challenges and opportunities. Current Opinion in Chemical Engineering, 2016, 13, 91-99.	3.8	12
81	Multivariate study of the dynamics of CO <sub>2</sub> reaction with brucite-rich ultramafic mine tailings. International Journal of Greenhouse Gas Control, 2016, 52, 110-119.	2.3	26
82	Hydrocarbon hydrodesulfurization in vertical, inclined and oscillating trickle beds â€“ Hydrodynamics & reactor performance for offshore petroleum marine applications. Fuel, 2016, 186, 35-49.	3.4	19
83	Ionic-liquid collectors for rare-earth minerals flotationâ€“Case of tetrabutylammonium bis(2-ethylhexyl)-phosphate for monazite and bastnÃ¡site recovery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 74-86.	2.3	46
84	Cyclic operation strategies in inclined and moving packed bedsâ€“Potential marine applications for floating systems. AIChE Journal, 2016, 62, 4157-4172.	1.8	20
85	Mass transfer intensification in a rotating packed bed with surface-modified nickel foam packing. Chemical Engineering Journal, 2016, 285, 236-242.	6.6	71
86	Emulation of gasâ€“liquid flow in packed beds for offshore floating applications using a swell simulation hexapod. AIChE Journal, 2015, 61, 2354-2367.	1.8	37
87	Allothermal Fluidized Bed Reactor for Steam Gasification of Biomass. Instrumentation Science and Technology, 2015, 43, 390-428.	0.9	5
88	Studies of CO <sub>2</sub> absorption and effective interfacial area in a two-stage rotating packed bed with nickel foam packing. Chemical Engineering and Processing: Process Intensification, 2015, 90, 34-40.	1.8	38
89	Capacitance wire mesh imaging of bubbly flows for offshore treatment applications. Flow Measurement and Instrumentation, 2015, 45, 298-307.	1.0	13
90	Micromixing Efficiency Enhancement in a Rotating Packed Bed Reactor with Surface-Modified Nickel Foam Packing. Industrial & Engineering Chemistry Research, 2015, 54, 1697-1702.	1.8	51

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91	Liquid residence time distribution in a two-compartment wastewater treatment bioreactor. Canadian Journal of Chemical Engineering, 2015, 93, 599-612.	0.9	5
92	A novel inclined rotating tubular fixed bed reactor concept for enhancement of reaction rates and adjustment of flow regimes. Chemical Engineering Journal, 2015, 281, 931-944.	6.6	18
93	Hydrodynamics of gas-liquid cocurrent downflow in floating packed beds. Chemical Engineering Science, 2015, 137, 665-676.	1.9	37
94	Liquid backmixing in an inclined rotating tubular fixed bed reactor - Augmenting liquid residence time via flow regime adjustment. Chemical Engineering and Processing: Process Intensification, 2015, 94, 2-10.	1.8	13
95	Hydrodynamics of co-current two-phase flow in an inclined rotating tubular fixed bed reactor - Wetting intermittency via periodic catalyst immersion. Chemical Engineering Science, 2015, 128, 147-158.	1.9	34
96	A noninvasive X-ray technique for determination of liquid holdup in a rotating packed bed. Chemical Engineering Science, 2015, 138, 244-255.	1.9	96
97	Hydrodynamics of countercurrent gas-liquid flow in inclined packed beds - A prospect for stretching flooding capacity with small packings. Chemical Engineering Science, 2015, 138, 256-265.	1.9	25
98	Traitement solvothermique superficiel de la biomasse lignocellulosique dans les liquides ioniques - hygroscopicité, morphologie et propriétés mécaniques. Canadian Journal of Chemical Engineering, 2015, 93, 29-36.	0.9	0
99	Inception of vortical coherent structures from spinning magnetic nanoparticles in rotating magnetic fields - New nanofluid microscale mixing tool. Chemical Engineering Journal, 2015, 260, 338-346.	6.6	9
100	Detection and Identification of Cobalt Cyanide Complexes using Capillary Electrophoresis. Separation Science and Technology, 2014, 49, 691-701.	1.3	6
101	New tools for stimulating dissolution and carbonation of ultramafic mining residues. Canadian Journal of Chemical Engineering, 2014, 92, 2029-2038.	0.9	20
102	Efficient strategies to enhance gold leaching during cyanidation of multi-sulfidic ores. Canadian Journal of Chemical Engineering, 2014, 92, 1687-1692.	0.9	10
103	Torrefaction de la biomasse lignocellulosique dans les liquides ioniques: Analyse comparative par spectroscopies de surface. Canadian Journal of Chemical Engineering, 2014, 92, 1839-1858.	0.9	1
104	Biomass torrefaction and CO <sub>2</sub> capture using mining wastes - A new approach for reducing greenhouse gas emissions of co-firing plants. Fuel, 2014, 115, 749-757.	3.4	43
105	Impact of temperature and oxygen availability on the dynamics of ambient CO <sub>2</sub> mineral sequestration by nickel mining residues. Chemical Engineering Journal, 2014, 240, 394-403.	6.6	34
106	Emulation of ambient carbon dioxide diffusion and carbonation within nickel mining residues. Minerals Engineering, 2014, 59, 39-44.	1.8	24
107	Cyclic operation of trickle bed reactors: A review. Chemical Engineering Science, 2014, 115, 205-214.	1.9	40
108	CO <sub>2</sub> absorption in diethanolamine/ionic liquid emulsions - Chemical kinetics and mass transfer study. Chemical Engineering Journal, 2014, 240, 16-23.	6.6	65



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109	Two-phase flow hydrodynamic study in micro-packed beds â€“ Effect of bed geometry and particle size. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 78, 27-36.	1.8	25
110	Comparative study of five QuÃ©bec ultramafic mining residues for use in direct ambient carbon dioxide mineral sequestration. <i>Chemical Engineering Journal</i> , 2014, 245, 56-64.	6.6	49
111	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.	0.9	76
112	Giant effective liquid-self diffusion in stagnant liquids by magnetic nanomixing. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 71, 77-82.	1.8	22
113	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.	6.6	28
114	Catalytic CO <sub>2</sub> hydration by immobilized and free human carbonic anhydrase II in a laminar flow microreactor â€“ Model and simulations. <i>Separation and Purification Technology</i> , 2013, 107, 61-69.	3.9	18
115	Hydrodynamics of an inclined gas-liquid cocurrent upflow packed bed. <i>Chemical Engineering Science</i> , 2013, 102, 397-404.	1.9	27
116	Enzymatic CO <sub>2</sub> capture by immobilized hCA II in an intensified microreactorâ€”Kinetic study of the catalytic hydration. <i>International Journal of Greenhouse Gas Control</i> , 2013, 15, 78-85.	2.3	22
117	Dynamics of carbon dioxide uptake in chrysotile mining residues â€“ Effect of mineralogy and liquid saturation. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 124-135.	2.3	65
118	Kinetic behavior of carbon dioxide absorption in diethanolamine/ionic-liquid emulsions. <i>Separation and Purification Technology</i> , 2013, 118, 757-761.	3.9	20
119	Hydrodynamics of gas-liquid micro-fixed beds â€“ Measurement approaches and technical challenges. <i>Chemical Engineering Journal</i> , 2013, 223, 425-435.	6.6	29
120	Accurate and direct quantification of native brucite in serpentine oresâ€”New methodology and implications for CO <sub>2</sub> sequestration by mining residues. <i>Thermochimica Acta</i> , 2013, 566, 281-291.	1.2	39
121	Remotely excited magnetic nanoparticles and gas-liquid mass transfer in Taylor flow regime. <i>Chemical Engineering Science</i> , 2013, 93, 257-265.	1.9	23
122	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.	1.9	31
123	Distillation studies in a two-stage counter-current rotating packed bed. <i>Separation and Purification Technology</i> , 2013, 102, 62-66.	3.9	53
124	CO <sub>2</sub> -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.	2.0	59
125	Catalytic Wet Oxidation in Three-Phase Moving-Bed Reactors: Modeling Framework and Simulations for On-Stream Replacement of a Deactivating Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, , 121220085307008.	1.8	0
126	Prediction of Solids Accumulation in Slurry Bubble Columns with Polydispersed Solid Loadings. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 13100-13112.	1.8	0



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127	Hydrodynamics of Gas-Liquid Cocurrent Flows in Micropacked Beds-Wall Visualization Study. Industrial & Engineering Chemistry Research, 2012, 51, 16495-16504.	1.8	30
128	CO <sub>2</sub> Sequestration in Chrysotile Mining Residues-Implication of Watering and Passivation under Environmental Conditions. Industrial & Engineering Chemistry Research, 2012, 51, 8726-8734.	1.8	63
129	Reducing Taylor dispersion in capillary laminar flows using magnetically excited nanoparticles: Nanomixing mechanism for micro/nanoscale applications. Chemical Engineering Journal, 2012, 203, 492-498.	6.6	26
130	Stabilization of basic oxygen furnace slag by hot-stage carbonation treatment. Chemical Engineering Journal, 2012, 203, 239-250.	6.6	136
131	CFD study on hydrodynamics in three-phase fluidized beds-Application of turbulence models and experimental validation. Chemical Engineering Science, 2012, 78, 167-180.	1.9	50
132	CO <sub>2</sub> capture in alkanolamine/room-temperature ionic liquid emulsions: A viable approach with carbamate crystallization and curbed corrosion behavior. International Journal of Greenhouse Gas Control, 2012, 6, 246-252.	2.3	106
133	CO <sub>2</sub> Capture in Alkanolamine-RTIL Blends via Carbamate Crystallization: Route to Efficient Regeneration. Environmental Science & Technology, 2012, 46, 11443-11450.	4.6	69
134	Integrated aqueous-phase glycerol reforming to dimethyl ether synthesis-A novel allothermal dual bed membrane reactor concept. Chemical Engineering Journal, 2012, 187, 311-327.	6.6	19
135	CO <sub>2</sub> hydration by immobilized carbonic anhydrase in Robinson-Mahoney and packed-bed scrubbers-Role of mass transfer and inhibitor removal. Chemical Engineering Science, 2012, 73, 99-115.	1.9	30
136	Leveraging strategies to increase gold cyanidation in the presence of sulfide minerals - Packed-bed electrochemical reactor approach. Hydrometallurgy, 2012, 111-112, 73-81.	1.8	17
137	The role of multi-sulfidic mineral binary and ternary galvanic interactions in gold cyanidation in a multi-layer packed-bed electrochemical reactor. Hydrometallurgy, 2012, 113-114, 51-59.	1.8	14
138	Synthesis of CaCO <sub>3</sub> nanoparticles by controlled precipitation of saturated carbonate and calcium nitrate aqueous solutions. Canadian Journal of Chemical Engineering, 2012, 90, 26-33.	0.9	66
139	Editorial -XVIIth World Congress of CIGR joint symposium on nanotechnologies applied to biosystems engineering and the environment, QuÃ©bec City, Canada. Canadian Journal of Chemical Engineering, 2012, 90, 7-7.	0.9	1
140	Carbon Sequestration Kinetic and Storage Capacity of Ultramafic Mining Waste. Environmental Science & Technology, 2011, 45, 9413-9420.	4.6	97
141	Determination of free cyanide and zinc cyanide complex by capillary electrophoresis. Journal of Separation Science, 2011, 34, 1568-1573.	1.3	6
142	Modulation of suspension electrical conductivity to counter fines plugging in trickle-bed reactors. AIChE Journal, 2011, 57, 1829-1839.	1.8	6
143	Sorption-enhanced dimethyl ether synthesis-Multiscale reactor modeling. Chemical Engineering Science, 2011, 66, 2241-2251.	1.9	66
144	Untangling galvanic and passivation phenomena induced by sulfide minerals on precious metal leaching using a new packed-bed electrochemical cyanidation reactor. Hydrometallurgy, 2011, 107, 101-111.	1.8	33

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145	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.	0.9	2
146	Co-current descending two-phase flows in inclined packed beds: Experiments versus simulations. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 742-750.	0.9	15
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