FaÃ¯Ã§al Larachi

List of Publications by Year
in descending order

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	High-Pressure Trickle-Bed Reactors:â€‰ A Review. Industrial & Engineering Chemistry Research, 1997, 36, 3292-3314.	1.8	311
2	Multiphase catalytic reactors: a perspective on current knowledge and future trends. Catalysis Reviews - Science and Engineering, 2002, 44, 123-246.	5.7	300
3	Multiphase reactors â€“ revisited. Chemical Engineering Science, 1999, 54, 1975-1995.	1.9	289
4	Noninvasive Tomographic and Velocimetric Monitoring of Multiphase Flows. Industrial & Engineering Chemistry Research, 1997, 36, 4476-4503.	1.8	250
5	CFD simulation of bubble column flows: Investigations on turbulence models in RANS approach. Chemical Engineering Science, 2009, 64, 4399-4413.	1.9	187
6	Wet oxidation of phenolic solutions over heterogeneous catalysts: Degradation profile and catalyst behavior. Journal of Catalysis, 1998, 177, 247-258.	3.1	145
7	Stabilization of basic oxygen furnace slag by hot-stage carbonation treatment. Chemical Engineering Journal, 2012, 203, 239-250.	6.6	136
8	A Î³-ray detection system for 3-D particle tracking in multiphase reactors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 338, 568-576.	0.7	115
9	CO2 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
10	Carbon Sequestration Kinetic and Storage Capacity of Ultramafic Mining Waste. Environmental Science & Technology, 2011, 45, 9413-9420.	4.6	97
11	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
12	Optimal design of radioactive particle tracking experiments for flow mapping in opaque multiphase reactors. Applied Radiation and Isotopes, 2002, 56, 485-503.	0.7	85
13	Analysis of flow in rotating packed beds via CFD simulationsâ€”Dry pressure drop and gas flow maldistribution. Chemical Engineering Science, 2009, 64, 2113-2126.	1.9	80
14	Hydrogen production by glycerol steam reforming catalyzed by Ni-promoted Fe/Mg-bearing metallurgical wastes. Applied Catalysis B: Environmental, 2017, 219, 183-193.	10.8	80
15	Surface interactions and flotation behavior of calcite, dolomite and ankerite with alkyl hydroxamic acid bearing collector and sodium silicate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 537, 126-138.	2.3	80
16	Modelling and simulation of trickleâ€bed reactors using computational fluid dynamics: A stateâ€ofâ€theâ€art review. Canadian Journal of Chemical Engineering, 2013, 91, 136-180.	0.9	76
17	3-D mapping of solids flow fields in multiphase reactors with RPT. AICHE Journal, 1995, 41, 439-443.	1.8	73
18	A study of solid behavior in spouted beds using 3â€Ð particle tracking. Canadian Journal of Chemical Engineering, 1994, 72, 945-952.	0.9	72

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19	Mass transfer intensification in a rotating packed bed with surface-modified nickel foam packing. Chemical Engineering Journal, 2016, 285, 236-242.	6.6	71
20	CO₂ Capture in Alkanolamine-RTIL Blends via Carbamate Crystallization: Route to Efficient Regeneration. Environmental Science & Technology, 2012, 46, 11443-11450.	4.6	69
21	Pressure Drop and Liquid Holdup in Trickle Flow Reactors:Â Improved Ergun Constants and Slip Correlations for the Slit Model. Industrial & Engineering Chemistry Research, 1998, 37, 4542-4550.	1.8	68
22	Sorption-enhanced dimethyl ether synthesisâ€"Multiscale reactor modeling. Chemical Engineering Science, 2011, 66, 2241-2251.	1.9	66
23	Synthesis of CaCO₃ nanoparticles by controlled precipitation of saturated carbonate and calcium nitrate aqueous solutions. Canadian Journal of Chemical Engineering, 2012, 90, 26-33.	0.9	66
24	Dynamics of carbon dioxide uptake in chrysotile mining residues â€“ Effect of mineralogy and liquid saturation. International Journal of Greenhouse Gas Control, 2013, 12, 124-135.	2.3	65
25	CO2 absorption in diethanolamine/ionic liquid emulsions â€“ Chemical kinetics and mass transfer study. Chemical Engineering Journal, 2014, 240, 16-23.	6.6	65
26	CO₂ Sequestration in Chrysotile Mining Residuesâ€"Implication of Watering and Passivation under Environmental Conditions. Industrial & Engineering Chemistry Research, 2012, 51, 8726-8734.	1.8	63
27	Fixation of CO2 by chrysotile in low-pressure dry and moist carbonation: Ex-situ and in-situ characterizations. Geochimica Et Cosmochimica Acta, 2010, 74, 3051-3075.	1.6	62
28	CO2-depleted warm air venting from chrysotile milling waste (Thetford Mines, Canada): Evidence for in-situ carbon capture from the atmosphere. Geology, 2012, 40, 275-278.	2.0	59
29	Wet Oxidation of Phenol Catalyzed by Unpromoted and Platinum-Promoted Manganese/Cerium Oxide. Industrial & Engineering Chemistry Research, 1998, 37, 3561-3566.	1.8	56
30	Heat and Mass Transfer in Cocurrent Gasâ^'Liquid Packed Beds. Analysis, Recommendations, and New Correlations. Industrial & Engineering Chemistry Research, 2003, 42, 222-242.	1.8	55
31	Some experimental liquid saturation results in fixed-bed reactors operated under elevated pressure in cocurrent upflow and downflow of the gas and the liquid. Industrial & Engineering Chemistry Research, 1991, 30, 2404-2410.	1.8	54
32	Methane Nonoxidative Aromatization over Ruâ^'Mo/HZSM-5 in a Membrane Catalytic Reactor. Industrial & Engineering Chemistry Research, 2002, 41, 2371-2378.	1.8	54
33	Distillation studies in a two-stage counter-current rotating packed bed. Separation and Purification Technology, 2013, 102, 62-66.	3.9	53
34	Oxygen-Free Methane Aromatization in a Catalytic Membrane Reactor. Industrial & Engineering Chemistry Research, 2001, 40, 2212-2219.	1.8	51
35	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
36	CFD study on hydrodynamics in three-phase fluidized bedsâ€"Application of turbulence models and experimental validation. Chemical Engineering Science, 2012, 78, 167-180.	1.9	50

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37	Comparative study of five QuÃ©bec ultramafic mining residues for use in direct ambient carbon dioxide mineral sequestration. Chemical Engineering Journal, 2014, 245, 56-64.	6.6	49
38	Methane Nonoxidative Aromatization over Ruâ^'Mo/HZSM-5 at Temperatures up to 973 K in a Palladiumâ^'Silver/Stainless Steel Membrane Reactor. Industrial & Engineering Chemistry Research, 2003, 42, 323-330.	1.8	48
39	Ionic-liquid collectors for rare-earth minerals flotationâ¿¿Case of tetrabutylammonium bis(2-ethylhexyl)-phosphate for monazite and bastnÃsite recovery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 74-86.	2.3	46
40	Nesquehonite as a carbon sink in ambient mineral carbonation of ultramafic mining wastes. Chemical Engineering Journal, 2017, 314, 160-168.	6.6	46
41	Solubility of Total Reduced Sulfurs (Hydrogen Sulfide, Methyl Mercaptan, Dimethyl Sulfide, and) Tj ETQq1 1 0.784314 rgBT /Overlock 1C	1.0	44
42	Mechanistic Model for Structured-Packing-Containing Columns:Â Irrigated Pressure Drop, Liquid Holdup, and Packing Fractional Wetted Area. Industrial & Engineering Chemistry Research, 2001, 40, 5140-5146.	1.8	43
43	Biomass torrefaction and CO2 capture using mining wastes â€“ A new approach for reducing greenhouse gas emissions of co-firing plants. Fuel, 2014, 115, 749-757.	3.4	43
44	Hydrodynamics of cocurrent twoâ€phase flows in slanted porous mediaâ€”Modulation of pulse flow via bed obliquity. AICHE Journal, 2010, 56, 3189-3205.	1.8	41
45	Solubility of carbon dioxide in aqueous solutions of 2-amino-2-hydroxymethyl-1,3-propanediol. Fluid Phase Equilibria, 2008, 268, 121-129.	1.4	40
46	Cyclic operation of trickle bed reactors: A review. Chemical Engineering Science, 2014, 115, 205-214.	1.9	40
47	Selective dissolution of rare-earth element carbonates in deep eutectic solvents. Journal of Rare Earths, 2019, 37, 528-533.	2.5	40
48	Improving the prediction of liquid back-mixing in trickle-bed reactors using a neural network approach. Journal of Chemical Technology and Biotechnology, 2002, 77, 989-998.	1.6	39
49	Catalytic wet oxidation: microâ€“mesoâ€“macro methodology from catalyst synthesis to reactor design. Topics in Catalysis, 2005, 33, 109-134.	1.3	39
50	Accurate and direct quantification of native brucite in serpentine oresâ€”New methodology and implications for CO2 sequestration by mining residues. Thermochimica Acta, 2013, 566, 281-291.	1.2	39
51	Flooding Capacity in Packed Towers:â€‰ Database, Correlations, and Analysis. Industrial & Engineering Chemistry Research, 2001, 40, 476-487.	1.8	38
52	Electrochemical behavior of gold cyanidation in the presence of a sulfide-rich industrial ore versus its major constitutive sulfide minerals. Hydrometallurgy, 2010, 101, 108-119.	1.8	38
53	Studies of CO2 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
54	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

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55	Hydrodynamics of gasâ€“liquid cocurrent downflow in floating packed beds. Chemical Engineering Science, 2015, 137, 665-676.	1.9	37
56	Monitoring Filtration in Trickle Beds Using Electrical Capacitance Tomography. Industrial & Engineering Chemistry Research, 2009, 48, 1140-1153.	1.8	36
57	Impact of temperature and oxygen availability on the dynamics of ambient CO2 mineral sequestration by nickel mining residues. Chemical Engineering Journal, 2014, 240, 394-403.	6.6	34
58	Hydrodynamics of co-current two-phase flow in an inclined rotating tubular fixed bed reactor â€” Wetting intermittency via periodic catalyst immersion. Chemical Engineering Science, 2015, 128, 147-158.	1.9	34
59	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
60	Three-Phase Fluidization Macroscopic Hydrodynamics Revisited. Industrial & Engineering Chemistry Research, 2001, 40, 993-1008.	1.8	32
61	Liquid microflow inside the packing of a rotating packed bed reactor: Computational, observational and experimental studies. Chemical Engineering Journal, 2020, 386, 121134.	6.6	32
62	Propagation of slow/fast-mode solitary liquid waves in trickle beds via electrical capacitance tomography and computational fluid dynamics. Chemical Engineering Science, 2010, 65, 1144-1150.	1.9	31
63	CFD study and experimental validation of trickle bed hydrodynamics under gas, liquid and gas/liquid alternating cyclic operations. Chemical Engineering Science, 2013, 89, 158-170.	1.9	31
64	Prediction of Minimum Fluidization Velocity in Three-Phase Fluidized-Bed Reactors. Industrial & Engineering Chemistry Research, 2000, 39, 563-572.	1.8	30
65	Hydrodynamics of Gasâ€“Liquid Cocurrent Flows in Micropacked Bedsâ€”Wall Visualization Study. Industrial & Engineering Chemistry Research, 2012, 51, 16495-16504.	1.8	30
66	CO2 hydration by immobilized carbonic anhydrase in Robinsonâ€“Mahoney and packed-bed scrubbersâ€”Role of mass transfer and inhibitor removal. Chemical Engineering Science, 2012, 73, 99-115.	1.9	30
67	Effet de la pression sur la transition ruisselantâ€pulsÃ© dans les rÃ©acteurs catalytiques Ã lit fixe arrosÃ©. Canadian Journal of Chemical Engineering, 1993, 71, 319-321.	0.9	29
68	Solids mixing in gas-liquid-solid fluidized beds: Experiments and modelling. Chemical Engineering Science, 1996, 51, 2011-2020.	1.9	29
69	Fines deposition dynamics in gasâ€“liquid trickle-flow reactors. AICHE Journal, 2003, 49, 485-495.	1.8	29
70	Kinetics of Methane Nonoxidative Aromatization over Ruâ^'Mo/HZSM-5 Catalyst. Industrial & Engineering Chemistry Research, 2003, 42, 3203-3209.	1.8	29
71	Hydrodynamics of gasâ€“liquid micro-fixed beds â€“ Measurement approaches and technical challenges. Chemical Engineering Journal, 2013, 223, 425-435.	6.6	29
72	Inhibition and Deactivation Effects in Catalytic Wet Oxidation of High-Strength Alcohol-Distillery Liquors. Industrial & Engineering Chemistry Research, 1999, 38, 2268-2274.	1.8	28

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73	Classifying flow regimes in three-phase fluidized beds from CARPT experiments. Chemical Engineering Science, 2007, 62, 7523-7529.	1.9	28
74	Controlling lateral nanomixing and velocity profile of dilute ferrofluid capillary flows in uniform stationary, oscillating and rotating magnetic fields. Chemical Engineering Journal, 2013, 223, 454-466.	6.6	28
75	Two-Phase Frictional Pressure Drop in Flooded-Bed Reactors: A State-of-the-art Correlation. Chemical Engineering and Technology, 1998, 21, 887-893.	0.9	27
76	Hydrodynamics of an inclined gasâ€“liquid cocurrent upflow packed bed. Chemical Engineering Science, 2013, 102, 397-404.	1.9	27
77	Effects of heat treatment and acid washing on properties and reactivity of charcoal. Biomass and Bioenergy, 2016, 90, 101-113.	2.9	27
78	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
79	Interfacial Mass Transfer in Randomly Packed Towers:Â A Confident Correlation for Environmental Applications. Environmental Science & Technology, 2001, 35, 4817-4822.	4.6	26
80	Slow-mode induced pulsing in trickle-bed reactors at elevated temperature. AICHE Journal, 2006, 52, 3891-3901.	1.8	26
81	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
82	Multivariate study of the dynamics of CO 2 reaction with brucite-rich ultramafic mine tailings. International Journal of Greenhouse Gas Control, 2016, 52, 110-119.	2.3	26
83	Liquid-liquid mineral separation via ionic-liquid complexation of monazite and bastnÃ¤siteâ€”An alternate route for rare-earth mineral beneficiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 301-323.	2.3	26
84	Biomass accumulation and clogging in trickle-bed bioreactors. AICHE Journal, 2004, 50, 2541-2551.	1.8	25
85	Two-phase flow hydrodynamic study in micro-packed beds â€“ Effect of bed geometry and particle size. Chemical Engineering and Processing: Process Intensification, 2014, 78, 27-36.	1.8	25
86	Hydrodynamics of countercurrent gasâ€“liquid flow in inclined packed beds â€“ A prospect for stretching flooding capacity with small packings. Chemical Engineering Science, 2015, 138, 256-265.	1.9	25
87	Reconciliation Procedure for Gasâˆ’Liquid Interfacial Area and Mass-Transfer Coefficient in Randomly Packed Towers. Industrial & Engineering Chemistry Research, 2002, 41, 4911-4920.	1.8	24
88	X-ray Photoelectron Spectroscopy, Photoelectron Energy Loss Spectroscopy, X-ray Excited Auger Electron Spectroscopy, and Time-of-Flightâˆ’Secondary Ion Mass Spectroscopy Studies of Asphaltenes from Dobaâˆ’Chad Heavy Crude Hydrovisbreaking. Energy & Fuels, 2004, 18, 1744-1756.	2.5	24
89	Emulation of ambient carbon dioxide diffusion and carbonation within nickel mining residues. Minerals Engineering, 2014, 59, 39-44.	1.8	24
90	CFD modeling and simulation of clogging in packed beds with nonaqueous media. AICHE Journal, 2002, 48, 1596-1609.	1.8	23

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91	Remotely excited magnetic nanoparticles and gasâ€“liquid mass transfer in Taylor flow regime. Chemical Engineering Science, 2013, 93, 257-265.	1.9	23
92	Threeâ€dimensional simulations of gasâ€liquid cocurrent downflow in vertical, inclined, and oscillating packed beds. AICHE Journal, 2016, 62, 916-927.	1.8	23
93	Capillary electrophoretic separation of inorganic sulfur-sulfide, polysulfides, and sulfur-oxygen species. Journal of Separation Science, 2006, 29, 144-152.	1.3	22
94	Cyclic operation strategy for extending cycle life of trickle beds under gasâ€“liquid filtration. Chemical Engineering Science, 2007, 62, 7426-7435.	1.9	22
95	Giant effective liquid-self diffusion in stagnant liquids by magnetic nanomixing. Chemical Engineering and Processing: Process Intensification, 2013, 71, 77-82.	1.8	22
96	Enzymatic CO2 capture by immobilized hCA II in an intensified microreactorâ€”Kinetic study of the catalytic hydration. International Journal of Greenhouse Gas Control, 2013, 15, 78-85.	2.3	22
97	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
98	Immiscible dual ionic liquid-ionic liquid mineral separation of rare-earth minerals. Separation and Purification Technology, 2018, 191, 340-353.	3.9	22
99	DFT simulations of pyrite galvanic interactions with bulk, solid-solution and nanoparticle Au occurrences â€“ Insights into gold cyanidation. Minerals Engineering, 2020, 149, 106239.	1.8	22
100	A comparative study on the performance of M (Rh, Ru, Ni)-promoted metallurgical waste driven catalysts for H2 production by glycerol steam reforming. International Journal of Hydrogen Energy, 2021, 46, 32017-32035.	3.8	22
101	Kinetic behavior of carbon dioxide absorption in diethanolamine/ionic-liquid emulsions. Separation and Purification Technology, 2013, 118, 757-761.	3.9	20
102	New tools for stimulating dissolution and carbonation of ultramafic mining residues. Canadian Journal of Chemical Engineering, 2014, 92, 2029-2038.	0.9	20
103	Cyclic operation strategies in inclined and moving packed bedsâ€”Potential marine applications for floating systems. AICHE Journal, 2016, 62, 4157-4172.	1.8	20
104	CO2 and H2S absorption by MEA solution in packed-bed columns under inclined and heaving motion conditions - Hydrodynamics and reactions performance for marine applications. International Journal of Greenhouse Gas Control, 2018, 79, 1-13.	2.3	20
105	Flow Structure of the Solids in a Three-Dimensional Liquid Fluidized Bed. Industrial & Engineering Chemistry Research, 1997, 36, 4695-4704.	1.8	19
106	Theory of trickle-bed magnetohydrodynamics under magnetic-field gradients. AICHE Journal, 2003, 49, 1525-1532.	1.8	19
107	Dynamics of filtration in monolith reactors using electrical capacitance tomography. Chemical Engineering Science, 2010, 65, 504-510.	1.9	19
108	Integrated aqueous-phase glycerol reforming to dimethyl ether synthesisâ€”A novel allothermal dual bed membrane reactor concept. Chemical Engineering Journal, 2012, 187, 311-327.	6.6	19

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109	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
110	Dry reforming of methane with a new catalyst derived from a negative value mining residue spinellized with nickel. Catalysis Today, 2017, 291, 86-98.	2.2	19
111	Passive Mineral Carbonation of Mg-rich Mine Wastes by Atmospheric CO2. Energy Procedia, 2017, 114, 6083-6086.	1.8	19
112	Gas-liquid mass-transfer behavior of packed-bed scrubbers for floating/offshore CO2 capture. Chemical Engineering Journal, 2019, 377, 119236.	6.6	19
113	CFD Simulation and High-Speed Photography of Liquid Flow in the Outer Cavity Zone of a Rotating Packed Bed Reactor. Industrial & Engineering Chemistry Research, 2019, 58, 5280-5290.	1.8	19
114	Investigation of the mean and turbulent particle velocity fields in a spouted bed using radioactive particle tracking. Canadian Journal of Chemical Engineering, 1998, 76, 190-195.	0.9	18
115	Fines Deposition Dynamics in Packed-Bed Bubble Reactors. Industrial & Engineering Chemistry Research, 2003, 42, 2441-2449.	1.8	18
116	Multicomponent multicompartment model for Fischer-Tropsch SCBR. AICHE Journal, 2007, 53, 2062-2083.	1.8	18
117	Catalytic CO2 hydration by immobilized and free human carbonic anhydrase II in a laminar flow microreactor â€“ Model and simulations. Separation and Purification Technology, 2013, 107, 61-69.	3.9	18
118	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
119	CO₂ abatement in oscillating packedâ€bed scrubbers: Hydrodynamics and reaction performances for marine applications. AICHE Journal, 2017, 63, 1064-1076.	1.8	18
120	Hydrodynamics of gas-liquid cocurrent upflow in oscillating packed beds for offshore marine applications. Chemical Engineering Science, 2017, 170, 583-596.	1.9	18
121	Modeling and Simulations of NOx and SO2 Seawater Scrubbing in Packed-Bed Columns for Marine Applications. Catalysts, 2019, 9, 489.	1.6	18
122	Integrated Genetic Algorithmâ^'Artificial Neural Network Strategy for Modeling Important Multiphase-Flow Characteristics. Industrial & Engineering Chemistry Research, 2002, 41, 2543-2551.	1.8	17
123	Flow regime transition pointers in three-phase fluidized beds inferred from a solid tracer trajectory. Chemical Engineering and Processing: Process Intensification, 2006, 45, 350-358.	1.8	17
124	Usability of ECT for quantitative and qualitative characterization of trickle-bed flow dynamics subject to filtration conditions. Chemical Engineering and Processing: Process Intensification, 2006, 45, 538-545.	1.8	17
125	Leveraging strategies to increase gold cyanidation in the presence of sulfide minerals â€” Packed-bed electrochemical reactor approach. Hydrometallurgy, 2012, 111-112, 73-81.	1.8	17
126	Behavior of bifunctional phosphonium-based ionic liquids in solvent extraction of rare earth elements - quantum chemical study. Journal of Molecular Liquids, 2018, 263, 96-108.	2.3	17

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127	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. Applied Catalysis B: Environmental, 2020, 279, 119330.	10.8	17
128	Solubility of dimethyldisulfide (DMDS) in aqueous solutions of Fe(III) complexes of trans-1,2-cyclohexanediaminetetraacetic acid (CDTA) using the static headspace method. Fluid Phase Equilibria, 2005, 233, 184-189.	1.4	16
129	Enzyme-mediated CO 2 capture in oscillating structured packed-bed columns - Hydrodynamics and process performance for offshore applications. Ocean Engineering, 2017, 144, 157-174.	1.9	16
130	CFD study and experimental validation of multiphase packed bed hydrodynamics in the context of Rolling Sea conditions. AICHE Journal, 2019, 65, 385-397.	1.8	16
131	Grafted Amine/CO2 Interactions in (Gasâ^)Liquidâ^Solid Adsorption/Absorption Equilibria. Journal of Physical Chemistry C, 2009, 113, 21866-21876.	1.5	15
132	Coâ€current descending twoâ€phase flows in inclined packed beds: Experiments versus simulations. Canadian Journal of Chemical Engineering, 2010, 88, 742-750.	0.9	15
133	Offshore Floating Packedâ€Bed Reactors: KeyÂChallenges and Potential Solutions. Chemical Engineering and Technology, 2017, 40, 1975-1984.	0.9	15
134	Chemical transformation and dissociation of amino acids on metal sulfide surface: Insights from DFT into the effect of surface vacancies on alanine-sphalerite system. Applied Surface Science, 2021, 540, 148304.	3.1	15
135	Pressure effects on gas-liquid interfacial areas in cocurrent trickle-flow reactors. Chemical Engineering Science, 1992, 47, 2325-2330.	1.9	14
136	Mean and Turbulent Particle Velocity in the Fully Developed Region of a Three-Phase Fluidized Bed. Chemical Engineering and Technology, 1999, 22, 683-689.	0.9	14
137	Lowering the Viscosity of Dobaâ^Chad Heavy Crude Oil for Pipeline TransportationThe Hydrovisbreaking Approach. Energy & Fuels, 2004, 18, 1156-1168.	2.5	14
138	Stretching operational life of trickle-bed filters by liquid-induced pulse flow. AICHE Journal, 2005, 51, 2034-2047.	1.8	14
139	Modelling the Hydrodynamics of Gas-Liquid Packed Beds via Slit Models: A Review. International Journal of Chemical Reactor Engineering, 2005, 3, .	0.6	14
140	Gasâ^Liquid Partition Coefficients and Henry's Law Constants of DMS in Aqueous Solutions of Fe(II) Chelate Complexes Using the Static Headspace Method. Journal of Chemical & Engineering Data, 2005, 50, 1700-1705.	1.0	14
141	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
142	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
143	Enhancing liquid micromixing using lowâ€frequency rotating nanoparticles. AICHE Journal, 2017, 63, 337-346.	1.8	14
144	The effect of pyrite particle size on the electrochemical dissolution of gold during cyanidation. Hydrometallurgy, 2018, 175, 367-375.	1.8	14

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145	Fischer-Tropsch synthesis in vertical, inclined and oscillating trickle-bed reactors for offshore floating applications. Chemical Engineering Science, 2018, 177, 509-522.	1.9	14
146	Surface Speciation of Brucite Dissolution in Aqueous Mineral Carbonation: Insights from Density-Functional Theory Simulations. Journal of Physical Chemistry A, 2019, 123, 889-905.	1.1	14
147	Capacitance wire mesh imaging of bubbly flows for offshore treatment applications. Flow Measurement and Instrumentation, 2015, 45, 298-307.	1.0	13
148	Liquid backmixing in an inclined rotating tubular fixed bed reactor â€“ Augmenting liquid residence time via flow regime adjustment. Chemical Engineering and Processing: Process Intensification, 2015, 94, 2-10.	1.8	13
149	Noncovalent Immobilization of Optimized Bacterial Cytochrome P450 BM3 on Functionalized Magnetic Nanoparticles. Industrial & Engineering Chemistry Research, 2017, 56, 10981-10989.	1.8	13
150	Atmospheric Carbon Mineralization in an Industrial-Scale Chrysotile Mining Waste Pile. Environmental Science & Technology, 2018, 52, 8050-8057.	4.6	13
151	Scrubber Designs for Enzyme-Mediated Capture of CO2. Recent Patents on Chemical Engineering, 2008, 1, 93-105.	0.5	13
152	Solubility and Infinite Dilution Activity Coefficient for 5-Chlorovanillin and 4-Chloroguaiacol in Water over the Temperature Range 280 to 363 K. Journal of Chemical & Engineering Data, 2000, 45, 404-408.	1.0	12
153	Synthesis and Characterization of Titanium-Substituted Large Pore SSZ-42 Zeolite. Catalysis Letters, 2001, 77, 227-231.	1.4	12
154	Anoxic alkaline oxidation of bisulfide by Fe/Ce oxides: Reaction pathway. AICHE Journal, 2007, 53, 2170-2187.	1.8	12
155	CFD simulations of hydrodynamic/thermal coupling phenomena in a bubble column with internals. AICHE Journal, 2010, 56, 2397-2411.	1.8	12
156	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
157	Hydrodynamics of inclined packed beds under flow modulation â€•CFD simulation and experimental validation. AICHE Journal, 2017, 63, 4161-4176.	1.8	12
158	110th Anniversary: Marinization of Multiphase Reactors through the Prism of Chemical Engineers. Industrial & Engineering Chemistry Research, 2019, 58, 2607-2630.	1.8	12
159	Liquid saturation data in trickle beds operating under elevated pressure. AICHE Journal, 1991, 37, 1109-1112.	1.8	11
160	Improving the prediction of irrigated pressure drop in packed absorption towers. Canadian Journal of Chemical Engineering, 2001, 79, 584-594.	0.9	11
161	Characterization of Dobaâ€“Chad heavy crude oil in relation with the feasibility of pipeline transportation. Fuel, 2004, 83, 2157-2168.	3.4	11
162	Feature Selection Methods for Multiphase Reactors Data Classification. Industrial & Engineering Chemistry Research, 2005, 44, 1073-1084.	1.8	11

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