

Bin Liang

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.

154
papers

3,069
citations

30
h-index

47
g-index

161
ext. papers

3,798
ext. citations

5.2
avg, IF

5.63
L-index

#	Paper	IF	Citations
154	Superhydrophobic CuO nanoneedle-covered copper surfaces for anticorrosion. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4374-4388	13	168
153	Supported CaO Catalysts Used in the Transesterification of Rapeseed Oil for the Purpose of Biodiesel Production. <i>Energy & Fuels</i> , 2008 , 22, 646-651	4.1	157
152	Solubility of Multicomponent Systems in the Biodiesel Production by Transesterification of <i>Jatropha curcas</i> L. Oil with Methanol. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1130-1135	2.8	125
151	Enhancing the energetic efficiency of MDEA/PZ-based CO ₂ capture technology for a 650 MW power plant: Process improvement. <i>Applied Energy</i> , 2017 , 185, 362-375	10.7	96
150	Nanostructured TiO ₂ /CuO dual-coated copper meshes with superhydrophilic, underwater superoleophobic and self-cleaning properties for highly efficient oil/water separation. <i>Chemical Engineering Journal</i> , 2017 , 328, 497-510	14.7	86
149	Leaching kinetics of Panzhihua ilmenite in sulfuric acid. <i>Hydrometallurgy</i> , 2005 , 76, 173-179	4	84
148	Purification of phenol-contaminated water by adsorption with quaternized poly(dimethylaminopropyl methacrylamide)-grafted PVBC microspheres. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4620-4636	13	81
147	Photocatalytic performance of Ag ₂ S under irradiation with visible and near-infrared light and its mechanism of degradation. <i>RSC Advances</i> , 2015 , 5, 24064-24071	3.7	80
146	Photocatalytic Oxidative Dehydrogenation of Ethane Using CO ₂ as a Soft Oxidant over Pd/TiO ₂ Catalysts to C ₂ H ₄ and Syngas. <i>ACS Catalysis</i> , 2018 , 8, 9280-9286	13.1	77
145	Effect of mechanical activation on the dissolution of Panzhihua ilmenite. <i>Minerals Engineering</i> , 2006 , 19, 1430-1438	4.9	71
144	PVDF film tethered with RGD-click-poly(glycidyl methacrylate) brushes by combination of direct surface-initiated ATRP and click chemistry for improved cytocompatibility. <i>RSC Advances</i> , 2014 , 4, 105-117	3.7	66
143	Preparation and Antiscaling Application of Superhydrophobic Anodized CuO Nanowire Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6874-6883	3.9	64
142	CO ₂ mineral carbonation using industrial solid wastes: A review of recent developments. <i>Chemical Engineering Journal</i> , 2021 , 416, 129093	14.7	55
141	Mineralization of CO ₂ Using Natural K-Feldspar and Industrial Solid Waste to Produce Soluble Potassium. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 7971-7978	3.9	50
140	Manganese-based regenerable sorbents for high temperature H ₂ S removal. <i>Fuel</i> , 2013 , 107, 539-546	7.1	47
139	Dissolution of mechanically activated Panzhihua ilmenites in dilute solutions of sulphuric acid. <i>Hydrometallurgy</i> , 2007 , 89, 1-10	4	47
138	Amine-grafted mesoporous copper silicates as recyclable solid amine sorbents for post-combustion CO ₂ capture. <i>Applied Energy</i> , 2017 , 198, 250-260	10.7	39

137	Scientific and Engineering Progress in CO ₂ Mineralization Using Industrial Waste and Natural Minerals. <i>Engineering</i> , 2015 , 1, 150-157	9.7	39
136	Enhanced adsorption of Cu(II) ions on chitosan microspheres functionalized with polyethylenimine-conjugated poly(glycidyl methacrylate) brushes. <i>RSC Advances</i> , 2016 , 6, 78136-78150	3.7	38
135	Facile Two-Step Strategy for the Construction of a Mechanically Stable Three-Dimensional Superhydrophobic Structure for Continuous Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24149-24156	9.5	38
134	Measurement and Prediction of Oxygen Solubility in Toluene at Temperatures from 298.45 K to 393.15 K and Pressures up to 1.0 MPa. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2339-2344	2.8	38
133	Indirect mineral carbonation of blast furnace slag with (NH ₄) ₂ SO ₄ as a recyclable extractant. <i>Journal of Energy Chemistry</i> , 2017 , 26, 927-935	12	36
132	CO ₂ mineral sequestration by using blast furnace slag: From batch to continuous experiments. <i>Energy</i> , 2021 , 214, 118975	7.9	36
131	Adsorption and photocatalytic degradation behaviors of rhodamine dyes on surface-fluorinated TiO ₂ under visible irradiation. <i>RSC Advances</i> , 2016 , 6, 4090-4100	3.7	34
130	Graphene intercalated Ni-SiO ₂ /GO-Ni-foam catalyst with enhanced reactivity and heat-transfer for CO ₂ methanation. <i>Chemical Engineering Science</i> , 2019 , 194, 10-21	4.4	33
129	Surface Modification of Mild Steel with Thermally Cured Antibacterial Poly(vinylbenzyl chloride)/Polyaniline Bilayers for Effective Protection against Sulfate Reducing Bacteria Induced Corrosion. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12363-12378	3.9	33
128	Biomimetic Superhydrophobic Engineering Metal Surface with Hierarchical Structure and Tunable Adhesion: Design of Microscale Pattern. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 907-919	3.9	32
127	CO ₂ Mineralization of Activated K-Feldspar + CaCl ₂ Slag To Fix Carbon and Produce Soluble Potash Salt. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10557-10565	3.9	31
126	Evolution of active sites and catalytic consequences of mesoporous MCM-41 supported copper catalysts for the hydrogenation of ethylene carbonate. <i>Chemical Engineering Journal</i> , 2018 , 334, 1943-1953	14.7	31
125	Calcium-based regenerable sorbents for high temperature H ₂ S removal. <i>Fuel</i> , 2015 , 154, 17-23	7.1	30
124	Generation of electricity from CO ₂ mineralization: Principle and realization. <i>Science China Technological Sciences</i> , 2014 , 57, 2335-2343	3.5	30
123	Indirect mineral carbonation of titanium-bearing blast furnace slag coupled with recovery of TiO ₂ and Al ₂ O ₃ . <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 583-592	3.2	30
122	Effects of ball milling on structural changes and hydrolysis of lignocellulosic biomass in liquid hot-water compressed carbon dioxide. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2134-2141	2.8	28
121	Energy-efficient mineral carbonation of blast furnace slag with high value-added products. <i>Journal of Cleaner Production</i> , 2018 , 197, 242-252	10.3	28
120	Lithium Enrichment of High Mg/Li Ratio Brine by Precipitation of Magnesium via Combined CO ₂ Mineralization and Solvent Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 5668-5678	3.9	27

119	Click functionalization of poly(glycidyl methacrylate) microspheres with triazole-4-carboxylic acid for the effective adsorption of Pb(II) ions. <i>New Journal of Chemistry</i> , 2017 , 41, 6475-6488	3.6	25
118	A study on the liquid-phase oxidation of toluene in ionic liquids. <i>Applied Catalysis A: General</i> , 2012 , 439-440, 1-7	5.1	25
117	De-emulsification of Kerosene/Water Emulsions with Plate-Type Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9279-9288	3.9	25
116	Study on the mechanochemical oxidation of ilmenite. <i>Journal of Alloys and Compounds</i> , 2008 , 459, 354-361	3.7	25
115	An efficient milling-assisted technology for K-feldspar processing, industrial waste treatment and CO ₂ mineralization. <i>Chemical Engineering Journal</i> , 2016 , 292, 255-263	14.7	24
114	Room-temperature pulsed CVD-grown SiO ₂ protective layer on TiO ₂ particles for photocatalytic activity suppression. <i>RSC Advances</i> , 2017 , 7, 4547-4554	3.7	23
113	Suppressing the Photocatalytic Activity of TiO ₂ Nanoparticles by Extremely Thin Al ₂ O ₃ Films Grown by Gas-Phase Deposition at Ambient Conditions. <i>Nanomaterials</i> , 2018 , 8,	5.4	23
112	A Theoretical Model for the Size Prediction of Single Bubbles Formed under Liquid Cross-flow. <i>Chinese Journal of Chemical Engineering</i> , 2010 , 18, 770-776	3.2	23
111	Optimising the recovery of high-value-added ammonium alum during mineral carbonation of blast furnace slag. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 1151-1159	5.7	23
110	Combined production of synthetic rutile in the sulfate TiO ₂ process. <i>Journal of Alloys and Compounds</i> , 2017 , 705, 572-580	5.7	22
109	Effects of Orifice Orientation and Gas-Liquid Flow Pattern on Initial Bubble Size. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 1206-1215	3.2	21
108	Combined synthesis of Li ₄ SiO ₄ sorbent with high CO ₂ uptake in the indirect carbonation of blast furnace slag process. <i>Chemical Engineering Journal</i> , 2019 , 370, 71-80	14.7	20
107	Transformation of ZnS Precursor Compounds to Magic-Size Clusters Exhibiting Optical Absorption Peaking at 269 nm. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 75-82	6.4	20
106	Successive grafting of poly(hydroxyethyl methacrylate) brushes and melamine onto chitosan microspheres for effective Cu(II) uptake. <i>International Journal of Biological Macromolecules</i> , 2018 , 109, 287-302	7.9	19
105	Synthesis-Controlled Band of Molybdenum Carbide for Base-Promoted Transfer Hydrogenation of Lignin to Aromatic Monomers in Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 20270-20281	3.9	18
104	The CO ₂ absorption and desorption performance of the triethylenetetramine + N,N-diethylethanolamine + H ₂ O system. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 2351-2360	3.2	18
103	Investigation on the Phase-Change Absorbent System MEA + Solvent A (SA) + H ₂ O Used for the CO ₂ Capture from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3811-3821	3.9	17
102	Hydroxyl-Mediated Formation of Highly Dispersed SnO ₂ /TiO ₂ Heterojunction via Pulsed Chemical Vapor Deposition To Enhance Photocatalytic Activity. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14655-14663	3.9	16

101	Kinetics of the Liquid-Phase Oxidation of Toluene by Air. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 6442-6448	3.9	16
100	Low-energy-consumption electrochemical CO ₂ capture driven by biomimetic phenazine derivatives redox medium. <i>Applied Energy</i> , 2020 , 259, 114119	10.7	16
99	CO ₂ Capture from Flue Gas Using an Electrochemically Reversible Hydroquinone/Quinone Solution. <i>Energy & Fuels</i> , 2019 , 33, 3380-3389	4.1	15
98	Evolution of CdTe Magic-Size Clusters with Single Absorption Doublet Assisted by Adding Small Molecules during Prenucleation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2230-2240	6.4	15
97	Solubility Measurement for the Reaction Systems in Pre-Esterification of High Acid Value <i>Jatropha curcas</i> L. Oil. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1421-1425	2.8	15
96	Study on the behavior of sulfur in hydrolysis process of titanyl sulfate solution. <i>Journal of Alloys and Compounds</i> , 2016 , 670, 249-257	5.7	15
95	A stable eco-friendly superhydrophobic/superoleophilic copper mesh fabricated by one-step immersion for efficient oil/water separation. <i>Surface and Coatings Technology</i> , 2019 , 359, 108-116	4.4	15
94	Energy-efficient mineral carbonation of CaSO ₄ derived from wollastonite via a roasting-leaching route. <i>Hydrometallurgy</i> , 2019 , 184, 151-161	4	15
93	Nanoarray Cu/SiO ₂ Catalysts Embedded in Monolithic Channels for the Stable and Efficient Hydrogenation of CO ₂ -Derived Ethylene Carbonate. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1924-1934	3.9	14
92	KBiO ₃ as an Effective Visible-Light-Driven Photocatalyst: Degradation Mechanism for Different Organic Pollutants. <i>ChemPhotoChem</i> , 2018 , 2, 442-449	3.3	14
91	Tuning the photocatalytic activity of TiO ₂ nanoparticles by ultrathin SiO ₂ films grown by low-temperature atmospheric pressure atomic layer deposition. <i>Applied Surface Science</i> , 2020 , 530, 147244	6.7	14
90	Facile and cost-efficient indirect carbonation of blast furnace slag with multiple high value-added products through a completely wet process. <i>Energy</i> , 2019 , 166, 1314-1322	7.9	14
89	The role of adsorbed oleylamine on gold catalysts during synthesis for highly selective electrocatalytic reduction of CO to CO. <i>Chemical Communications</i> , 2020 , 56, 7021-7024	5.8	13
88	Enhanced hydrolysis of mechanically pretreated cellulose in water/CO system. <i>Bioresource Technology</i> , 2018 , 261, 28-35	11	13
87	Kinetic Study on the Sulfidation and Regeneration of Manganese-Based Regenerable Sorbent for High Temperature H ₂ S Removal. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 1179-1188	3.9	13
86	Insights into the relationships between physicochemical properties, solvent performance, and applications of deep eutectic solvents. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 35537-35563	5.1	13
85	Phase Diagrams of (NH ₄) ₂ SO ₄ -Al ₂ (SO ₄) ₃ -H ₂ O Ternary System: Effect of Sulfuric Acid and Its Application in Recovery of Aluminum from Coal Fly Ash. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 557-566	2.8	13
84	Phase diagrams of the MgSO ₄ -Al ₂ (SO ₄) ₃ -(NH ₄) ₂ SO ₄ -H ₂ O system at 25 and 55 °C and their application in mineral carbonation. <i>Fluid Phase Equilibria</i> , 2018 , 473, 226-235	2.5	13

83	Soda Ash Production with Low Energy Consumption Using Proton Cycled Membrane Electrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3450-3458	3.9	12
82	Phase Equilibrium of the $MgSO_4(NH_4)_2SO_4 \cdot 2H_2O$ Ternary System: Effects of Sulfuric Acid and Iron Sulfate and Its Application in Mineral Carbonation of Serpentine. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1603-1612	2.8	12
81	Insight into the synergism between MnO and acid sites over Mn-SiO@TiO nano-cups for low-temperature selective catalytic reduction of NO with NH ₃ . <i>RSC Advances</i> , 2018 , 8, 1979-1986	3.7	12
80	Density studies of 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)-glycerol and CO ₂ -DBU-glycerol solutions at temperatures between 288.15 K and 328.15 K. <i>Journal of Chemical Thermodynamics</i> , 2018 , 123, 8-16	2.9	12
79	Preparation of edible superhydrophobic Fe foil with excellent stability and durability and its applications in food containers with little residue. <i>New Journal of Chemistry</i> , 2019 , 43, 2908-2919	3.6	12
78	Preparation of Superhydrophobic Cu Mesh and Its Application in Rolling-Spheronization Granulation. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5545-5555	3.9	12
77	Inter-solubility of product systems in biodiesel production from <i>Jatropha curcas</i> L. oil with the switchable solvent DBU/methanol. <i>RSC Advances</i> , 2015 , 5, 8311-8317	3.7	11
76	Effects of mechanical activation on the digestion of ilmenite in dilute H ₂ SO ₄ . <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 575-586	3.2	11
75	Aqueous carbonation of the potassium-depleted residue from potassium feldspar with CaCl ₂ calcination for CO ₂ fixation. <i>Environmental Earth Sciences</i> , 2015 , 73, 6871-6879	2.9	11
74	Studies on viscosity and conductivity of 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)-glycerol and CO ₂ -DBU-glycerol solutions at temperatures from 288.1 K to 328.1 K. <i>Journal of Chemical Thermodynamics</i> , 2019 , 136, 16-27	2.9	10
73	An Environment-Friendly Strategy for One-Step Turning Cr(VI) Contaminant into a Cr-Loaded Catalyst for CO ₂ Utilization. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700165	5.9	10
72	Study on reactions of gaseous P ₂ O ₅ with Ca ₃ (PO ₄) ₂ and SiO ₂ during a rotary kiln process for phosphoric acid production. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 795-805	3.2	10
71	Supported Mo ₂ C on Carbon Materials for Kraft Lignin Decomposition into Aromatic Monomers in Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12602-12610	3.9	10
70	Solvent-free synthesis of hydroxycancrinite zeolite microspheres during the carbonation process of blast furnace slag. <i>Journal of Alloys and Compounds</i> , 2020 , 847, 156456	5.7	10
69	An efficient methodology for utilization of K-feldspar and phosphogypsum with reduced energy consumption and CO ₂ emissions. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 1541-1551	3.2	10
68	Enhancement of electricity generation in CO ₂ mineralization cell by using sodium sulfate as the reaction medium. <i>Applied Energy</i> , 2017 , 195, 991-999	10.7	9
67	Effect of impurities on the hydrolysis of low-concentration titanyl sulfate solutions. <i>Research on Chemical Intermediates</i> , 2015 , 41, 5423-5438	2.8	9
66	Insights into the Roasting Kinetics and Mechanism of Blast Furnace Slag with Ammonium Sulfate for CO ₂ Mineralization. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14026-14036	3.9	9

65	Preparation of Silver Carbonate and its Application as Visible Light-driven Photocatalyst Without Sacrificial Reagent. <i>Photochemistry and Photobiology</i> , 2015 , 91, 1315-23	3.6	9
64	Preparation of the Mn/Al ₂ O ₃ acceptor for high temperature regenerative H ₂ S removal. <i>Canadian Journal of Chemical Engineering</i> , 1999 , 77, 483-488	2.3	9
63	Indirect mineral carbonation of chlorinated tailing derived from Ti-bearing blast-furnace slag coupled with simultaneous dechlorination and recovery of multiple value-added products 2019 , 9, 52-66		9
62	Energy and Economic Analysis for Post-combustion CO ₂ Capture using Amine-Functionalized Adsorbents in a Temperature Vacuum Swing Process. <i>Energy & Fuels</i> , 2019 , 33, 1774-1784	4.1	9
61	Biomimetic Mineralization to Fabricate Superhydrophilic and Underwater Superoleophobic Filter Mesh for Oil/Water Separations. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6226-6235	3.9	8
60	An environmentally friendly FeTiSO _x catalyst with a broad operation-temperature window for the NH ₃ -SCR of NO _x . <i>AIChE Journal</i> , 2019 , 65, e16684	3.6	7
59	Heat integration and optimization of hydrogen production for a 1 kW low-temperature proton exchange membrane fuel cell. <i>Chemical Engineering Science</i> , 2015 , 123, 81-91	4.4	7
58	Phase-Change CO ₂ Absorption Using Novel 3-Dimethylaminopropylamine with Primary and Tertiary Amino Groups. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8902-8910	3.9	7
57	A photocatalytic transformation realized by Pd/TiO ₂ particle size modulation: from oxidative dehydrogenation of ethane to direct dehydrogenation of ethane. <i>Chemical Engineering Journal</i> , 2020 , 395, 125120	14.7	7
56	Vapor-Liquid Equilibrium for Binary Systems of Cyclohexane + Cyclohexanone and + Cyclohexanol at Temperatures from (414.0 to 433.7) K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3418-3421	2.8	7
55	Scale Formation and Its Mechanism in the Liquid-Phase Oxidation of Toluene by Air. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7826-7829	3.9	7
54	Principle and Technology of Ammonium Phosphate Production from Middle-Quality Phosphate Ore by a Slurry Concentration Process. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 4504-4506	3.9	7
53	Suppression of TiO ₂ Photocatalytic Activity by Low-Temperature Pulsed CVD-Grown SnO ₂ Protective Layer. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8679-8688	3.9	7
52	CO ₂ mineralization of natural wollastonite into porous silica and CaCO ₃ powders promoted via membrane electrolysis. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	6
51	Synthesis of potassium hexatitanate whiskers using hydrothermal method. <i>Rare Metals</i> , 2009 , 28, 24-32	5.5	6
50	Absorption of SO ₂ with recyclable melamine slurry. <i>Separation and Purification Technology</i> , 2020 , 251, 117285	8.3	6
49	Cu active sites confined in MgAl layered double hydroxide for hydrogenation of dimethyl oxalate to ethanol. <i>Catalysis Today</i> , 2021 , 365, 318-326	5.3	6
48	Simultaneous preparation of TiO ₂ and ammonium alum, and microporous SiO ₂ during the mineral carbonation of titanium-bearing blast furnace slag. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2256-2266	3.2	5

47	Mechanistic Aspects of Highly Efficient FeSbTiO _x Catalysts for the NH ₃ -SCR Reaction: Insight into the Synergistic Effect of Fe and S Species. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8164-8173	3.9	5
46	Wall-loaded Pt/TiO ₂ /Ti catalyst and its application in ammonia oxidation reaction in microchannel reactor. <i>RSC Advances</i> , 2016 , 6, 26637-26649	3.7	5
45	KINETIC MODELS FOR LIQUID-PHASE CATALYTIC OXIDATION OF TOLUENE TO BENZOIC ACID WITH PURE OXYGEN. <i>Chemical Engineering Communications</i> , 2010 , 197, 953-962	2.2	5
44	An Integrated Absorption/Mineralization Process for CO ₂ Capture and Sequestration: Reaction Mechanism, Recycling Stability, and Energy Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	5
43	DBU-based CO ₂ absorption/mineralization system: Reaction process, feasibility and process intensification. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 1145-1155	3.2	5
42	Studies on surface tension of 1,8-diazabicyclo [5.4.0] undec-7-ene (DBU)-glycerol and CO ₂ -DBU-glycerol solutions at temperatures from 288.1 K to 323.1 K. <i>Journal of Chemical Thermodynamics</i> , 2018 , 125, 32-40	2.9	5
41	Recyclable CoFe ₂ O ₄ /Ag ₂ O magnetic photocatalyst and its visible light-driven photocatalytic performance. <i>Research on Chemical Intermediates</i> , 2017 , 43, 4487-4502	2.8	4
40	Fabrication of hematite nanowire arrays on pure iron via anodization process for superhydrophilic surfaces. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015 , 51, 435-440	0.9	4
39	FeSTi Superacid Catalyst for NH ₃ -SCR with Superior Resistance to Metal Poisons in Flue Gas. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16878-16888	8.3	4
38	The fouling properties of SiO ₂ /α-Fe ₂ O ₃ system in high-temperature rotary kiln phosphoric acid process. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 1824-1831	3.2	4
37	First principles study on formation mechanism of anodization process of titanium. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016 , 52, 500-511	0.9	4
36	Quantitative Relationship between CO ₂ Absorption Capacity and Amine Water System: DFT, Statistical, and Experimental Study. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 13848-13857	3.9	4
35	Catalytic solvent regeneration of a CO ₂ -loaded MEA solution using an acidic catalyst from industrial rough metatitanic acid 2020 , 10, 449-460		4
34	Highly selective hydrogenation of diesters to ethylene glycol and ethanol on aluminum-promoted CuAl/SiO ₂ catalysts. <i>Catalysis Today</i> , 2021 , 368, 173-180	5.3	4
33	Ammonia Oxidation Process Catalyzed by Pt@XO ₂ (X = Ti, Zr, Ce, and Ce/Zr) Prepared by Photoreduction Process. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7752-7763	3.9	4
32	Microwave-assisted seed preparation for producing easily phase-transformed anatase to rutile. <i>RSC Advances</i> , 2017 , 7, 45607-45614	3.7	3
31	Aqueous carbonation of MgSO ₄ with (NH ₄) ₂ CO ₃ for CO ₂ sequestration 2019 , 9, 209-225		3
30	Engineering an ultrathin amorphous TiO ₂ layer for boosting the weatherability of TiO ₂ pigment with high lightening power. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 2825-2834	3.2	3

29	DBU-Glycerol Solution: A CO Absorbent with High Desorption Ratio and Low Regeneration Energy. <i>Environmental Science & Technology</i> , 2020 , 54, 7570-7578	10.3	3
28	Ball milling promoted direct liquefaction of lignocellulosic biomass in supercritical ethanol. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 605-613	4.5	3
27	Nano molybdenum carbides supported on porous zeolites for Kraft lignin decomposition to aromatic monomers in ethanol. <i>Bioresource Technology Reports</i> , 2020 , 11, 100484	4.1	3
26	Research on integrated CO ₂ absorption-mineralization and regeneration of absorbent process. <i>Energy</i> , 2021 , 222, 120010	7.9	3
25	Integrated Process of Monoethanolamine-Based CO ₂ Absorption and CO ₂ Mineralization with SFGD Slag: Process Simulation and Life-Cycle Assessment of CO ₂ Emission. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8238-8248	8.3	3
24	Hierarchical meso- and macroporous carbon from lignin for kraft lignin decomposition to aromatic monomers. <i>Catalysis Today</i> , 2021 , 365, 214-222	5.3	3
23	De-emulsification of 2-ethyl-1-hexanol/water emulsion using oil-wet narrow channel combined with low-speed rotation. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 2048-2054	3.2	3
22	Predicting phase-splitting behaviors of an amine-organic solvent/water system for CO ₂ absorption: A new model developed by density functional theory and statistical and experimental methods. <i>Chemical Engineering Journal</i> , 2021 , 422, 130389	14.7	3
21	Size-dependent superwettability adjustment strategy for preparing superhydrophilic and superhydrophobic solid particles. <i>Applied Surface Science</i> , 2019 , 487, 304-314	6.7	2
20	Residence time distribution in two-phase flow mini-channel reactor. <i>Chemical Engineering Journal</i> , 2011 , 174, 652-659	14.7	2
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14	A horizontal axis rotating disc contactor combining narrow mixing space and oil-wet slits. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 150, 107903	3.7	1
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