Bin Liang

List of Publications by Year
in descending order

161	4,642	109264	133188
papers	citations	35 h-index	59 g-index

161	161	161	4693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superhydrophobic CuO nanoneedle-covered copper surfaces for anticorrosion. Journal of Materials Chemistry A, 2015, 3, 4374-4388.	5.2	202
2	CO2 mineral carbonation using industrial solid wastes: A review of recent developments. Chemical Engineering Journal, 2021, 416, 129093.	6.6	198
3	Supported CaO Catalysts Used in the Transesterification of Rapeseed Oil for the Purpose of Biodiesel Production. Energy & Fuels, 2008, 22, 646-651.	2.5	187
4	Photocatalytic Oxidative Dehydrogenation of Ethane Using CO₂ as a Soft Oxidant over Pd/TiO₂ Catalysts to C₂H₄ and Syngas. ACS Catalysis, 2018, 8, 9280-9286.	5.5	162
5	Enhancing the energetic efficiency of MDEA/PZ-based CO2 capture technology for a 650 MW power plant: Process improvement. Applied Energy, 2017, 185, 362-375.	5.1	150
6	Solubility of Multicomponent Systems in the Biodiesel Production by Transesterification of Jatropha curcas L. Oil with Methanol. Journal of Chemical & Engineering Data, 2006, 51, 1130-1135.	1.0	139
7	Nanostructured TiO2/CuO dual-coated copper meshes with superhydrophilic, underwater superoleophobic and self-cleaning properties for highly efficient oil/water separation. Chemical Engineering Journal, 2017, 328, 497-510.	6.6	120
8	Purification of phenol-contaminated water by adsorption with quaternized poly(dimethylaminopropyl) Tj ETQq0 0 0 rgBT /Overlock 10 T	5.2	106
9	Photocatalytic performance of Ag₂S under irradiation with visible and near-infrared light and its mechanism of degradation. RSC Advances, 2015, 5, 24064-24071.	1.7	101
10	Leaching kinetics of Panzhihua ilmenite in sulfuric acid. Hydrometallurgy, 2005, 76, 173-179.	1.8	98
11	Preparation and Antiscaling Application of Superhydrophobic Anodized CuO Nanowire Surfaces. Industrial & Engineering Chemistry Research, 2015, 54, 6874-6883.	1.8	96
12	Effect of mechanical activation on the dissolution of Panzhihua ilmenite. Minerals Engineering, 2006, 19, 1430-1438.	1.8	85
13	PVDF film tethered with RGD-click-poly(glycidyl methacrylate) brushes by combination of direct surface-initiated ATRP and click chemistry for improved cytocompatibility. RSC Advances, 2014, 4, 105-117.	1.7	75
14	Scientific and Engineering Progress in CO 2 Mineralization Using Industrial Waste and Natural Minerals. Engineering, 2015, 1, 150-157.	3.2	68
15	Insights into the relationships between physicochemical properties, solvent performance, and applications of deep eutectic solvents. Environmental Science and Pollution Research, 2021, 28, 35537-35563.	2.7	65
16	Manganese-based regenerable sorbents for high temperature H 2 S removal. Fuel, 2013, 107, 539-546.	3.4	60
17	CO2 mineral sequestration by using blast furnace slag: From batch to continuous experiments. Energy, 2021, 214, 118975.	4.5	60
18	Dissolution of mechanically activated Panzhihua ilmenites in dilute solutions of sulphuric acid. Hydrometallurgy, 2007, 89, 1-10.	1.8	57

#	Article	IF	Citations
19	Mineralization of CO₂ Using Natural K-Feldspar and Industrial Solid Waste to Produce Soluble Potassium. Industrial & Engineering Chemistry Research, 2014, 53, 7971-7978.	1.8	56
20	Facile Two-Step Strategy for the Construction of a Mechanically Stable Three-Dimensional Superhydrophobic Structure for Continuous Oilâ€“Water Separation. ACS Applied Materials & Interfaces, 2018, 10, 24149-24156.	4.0	52
21	Indirect mineral carbonation of blast furnace slag with (NH4)2SO4 as a recyclable extractant. Journal of Energy Chemistry, 2017, 26, 927-935.	7.1	51
22	Evolution of active sites and catalytic consequences of mesoporous MCM-41 supported copper catalysts for the hydrogenation of ethylene carbonate. Chemical Engineering Journal, 2018, 334, 1943-1953.	6.6	51
23	Enhanced adsorption of Cu(<scp>ii</scp>) ions on chitosan microspheres functionalized with polyethylenimine-conjugated poly(glycidyl methacrylate) brushes. RSC Advances, 2016, 6, 78136-78150.	1.7	50
24	Energy-efficient mineral carbonation of blast furnace slag with high value-added products. Journal of Cleaner Production, 2018, 197, 242-252.	4.6	50
25	Adsorption and photocatalytic degradation behaviors of rhodamine dyes on surface-fluorinated TiO₂ under visible irradiation. RSC Advances, 2016, 6, 4090-4100.	1.7	49
26	Amine-grafted mesoporous copper silicates as recyclable solid amine sorbents for post-combustion CO 2 capture. Applied Energy, 2017, 198, 250-260.	5.1	48
27	Indirect mineral carbonation of titanium-bearing blast furnace slag coupled with recovery of TiO 2 and Al 2 O 3. Chinese Journal of Chemical Engineering, 2018, 26, 583-592.	1.7	47
28	Graphene intercalated Ni-SiO2/GO-Ni-foam catalyst with enhanced reactivity and heat-transfer for CO2 methanation. Chemical Engineering Science, 2019, 194, 10-21.	1.9	43
29	Combined synthesis of Li4SiO4 sorbent with high CO2 uptake in the indirect carbonation of blast furnace slag process. Chemical Engineering Journal, 2019, 370, 71-80.	6.6	39
30	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. Journal of Chemical & Engineering Data, 2007, 52, 2339-2344.	1.0	38
31	Click functionalization of poly(glycidyl methacrylate) microspheres with triazole-4-carboxylic acid for the effective adsorption of Pb(<scp>ii</scp>) ions. New Journal of Chemistry, 2017, 41, 6475-6488.	1.4	38
32	Investigation on the Phase-Change Absorbent System MEA + Solvent A (SA) + H₂O Used for the CO₂ Capture from Flue Gas. Industrial & Engineering Chemistry Research, 2019, 58, 3811-3821.	1.8	38
33	Calcium-based regenerable sorbents for high temperature H 2 S removal. Fuel, 2015, 154, 17-23.	3.4	37
34	Low-energy-consumption electrochemical CO2 capture driven by biomimetic phenazine derivatives redox medium. Applied Energy, 2020, 259, 114119.	5.1	37
35	Surface Modification of Mild Steel with Thermally Cured Antibacterial Poly(vinylbenzyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Corrosion. Industrial & Engineering Chemistry Research, 2014, 53, 12363-12378.	1.8	36
36	Biomimetic Superhydrophobic Engineering Metal Surface with Hierarchical Structure and Tunable Adhesion: Design of Microscale Pattern. Industrial & Engineering Chemistry Research, 2017, 56, 907-919.	1.8	36

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37	CO₂ Mineralization of Activated K-Feldspar + CaCl₂ Slag To Fix Carbon and Produce Soluble Potash Salt. Industrial & Engineering Chemistry Research, 2014, 53, 10557-10565.	1.8	34
38	Effects of ball milling on structural changes and hydrolysis of lignocellulosic biomass in liquid hot-water compressed carbon dioxide. Korean Journal of Chemical Engineering, 2016, 33, 2134-2141.	1.2	34
39	Room-temperature pulsed CVD-grown SiO₂ protective layer on TiO₂ particles for photocatalytic activity suppression. RSC Advances, 2017, 7, 4547-4554.	1.7	34
40	Tuning the photocatalytic activity of TiO2 nanoparticles by ultrathin SiO2 films grown by low-temperature atmospheric pressure atomic layer deposition. Applied Surface Science, 2020, 530, 147244.	3.1	34
41	Lithium Enrichment of High Mg/Li Ratio Brine by Precipitation of Magnesium via Combined CO₂ Mineralization and Solvent Extraction. Industrial & Engineering Chemistry Research, 2017, 56, 5668-5678.	1.8	33
42	The CO2 absorption and desorption performance of the triethylenetetramineâ€¯+â€¯N,N-diethylethanolamineâ€¯+â€¯H2O system. Chinese Journal of Chemical Engineering, 2018, 26, 2351-2360.	1.7	33
43	A study on the liquid-phase oxidation of toluene in ionic liquids. Applied Catalysis A: General, 2012, 439-440, 1-7.	2.2	32
44	Combined production of synthetic rutile in the sulfate TiO2 process. Journal of Alloys and Compounds, 2017, 705, 572-580.	2.8	32
45	Transformation of ZnS Precursor Compounds to Magic-Size Clusters Exhibiting Optical Absorption Peaking at 269 nm. Journal of Physical Chemistry Letters, 2020, 11, 75-82.	2.1	32
46	A Theoretical Model for the Size Prediction of Single Bubbles Formed under Liquid Cross-flow. Chinese Journal of Chemical Engineering, 2010, 18, 770-776.	1.7	31
47	Generation of electricity from CO2 mineralization: Principle and realization. Science China Technological Sciences, 2014, 57, 2335-2343.	2.0	31
48	An efficient milling-assisted technology for K-feldspar processing, industrial waste treatment and CO 2 mineralization. Chemical Engineering Journal, 2016, 292, 255-263.	6.6	31
49	Synthesis-Controlled Î±- and Î²-Molybdenum Carbide for Base-Promoted Transfer Hydrogenation of Lignin to Aromatic Monomers in Ethanol. Industrial & Engineering Chemistry Research, 2019, 58, 20270-20281.	1.8	31
50	Study on the mechanochemical oxidation of ilmenite. Journal of Alloys and Compounds, 2008, 459, 354-361.	2.8	30
51	De-emulsification of Kerosene/Water Emulsions with Plate-Type Microchannels. Industrial & Engineering Chemistry Research, 2010, 49, 9279-9288.	1.8	30
52	Suppressing the Photocatalytic Activity of TiO2 Nanoparticles by Extremely Thin Al2O3 Films Grown by Gas-Phase Deposition at Ambient Conditions. Nanomaterials, 2018, 8, 61.	1.9	30
53	CO₂ Capture from Flue Gas Using an Electrochemically Reversible Hydroquinone/Quinone Solution. Energy & Fuels, 2019, 33, 3380-3389.	2.5	30
54	Optimising the recovery of high-value-added ammonium alum during mineral carbonation of blast furnace slag. Journal of Alloys and Compounds, 2019, 774, 1151-1159.	2.8	30

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55	Facile and cost-efficient indirect carbonation of blast furnace slag with multiple high value-added products through a completely wet process. Energy, 2019, 166, 1314-1322.	4.5	29
56	Cu active sites confined in MgAl layered double hydroxide for hydrogenation of dimethyl oxalate to ethanol. Catalysis Today, 2021, 365, 318-326.	2.2	29
57	A stable eco-friendly superhydrophobic/superoleophilic copper mesh fabricated by one-step immersion for efficient oil/water separation. Surface and Coatings Technology, 2019, 359, 108-116.	2.2	28
58	Effects of Orifice Orientation and Gas-Liquid Flow Pattern on Initial Bubble Size. Chinese Journal of Chemical Engineering, 2013, 21, 1206-1215.	1.7	27
59	Phase-Change CO₂ Absorption Using Novel 3-Dimethylaminopropylamine with Primary and Tertiary Amino Groups. Industrial & Engineering Chemistry Research, 2020, 59, 8902-8910.	1.8	25
60	Successive grafting of poly(hydroxyethyl methacrylate) brushes and melamine onto chitosan microspheres for effective Cu(II) uptake. International Journal of Biological Macromolecules, 2018, 109, 287-302.	3.6	24
61	Energy-efficient mineral carbonation of CaSO4 derived from wollastonite via a roasting-leaching route. Hydrometallurgy, 2019, 184, 151-161.	1.8	24
62	FeSTi Superacid Catalyst for NH₃-SCR with Superior Resistance to Metal Poisons in Flue Gas. ACS Sustainable Chemistry and Engineering, 2020, 8, 16878-16888.	3.2	24
63	Study on the behavior of sulfur in hydrolysis process of titanyl sulfate solution. Journal of Alloys and Compounds, 2016, 670, 249-257.	2.8	21
64	Nanoarray Cu/SiO₂ Catalysts Embedded in Monolithic Channels for the Stable and Efficient Hydrogenation of CO₂-Derived Ethylene Carbonate. Industrial & Engineering Chemistry Research, 2018, 57, 1924-1934.	1.8	21
65	Solvent-free synthesis of hydroxycancrinite zeolite microspheres during the carbonation process of blast furnace slag. Journal of Alloys and Compounds, 2020, 847, 156456.	2.8	21
66	Evolution of CdTe Magic-Size Clusters with Single Absorption Doublet Assisted by Adding Small Molecules during Prenucleation. Journal of Physical Chemistry Letters, 2020, 11, 2230-2240.	2.1	21
67	Phase Equilibrium of the MgSO₄â€“(NH₄)₂SO₄â€“H₂O Ternary System: Effects of Sulfuric Acid and Iron Sulfate and Its Application in Mineral Carbonation of Serpentine. Journal of Chemical & Engineering Data, 2018, 63, 1603-1612.	1.0	20
68	KBiO₃ as an Effective Visibleâ€Lightâ€Driven Photocatalyst: Degradation Mechanism for Different Organic Pollutants. ChemPhotoChem, 2018, 2, 442-449.	1.5	20
69	Hydroxyl-Mediated Formation of Highly Dispersed SnO2/TiO2 Heterojunction via Pulsed Chemical Vapor Deposition To Enhance Photocatalytic Activity. Industrial & Engineering Chemistry Research, 2019, 58, 14655-14663.	1.8	20
70	DBU-Glycerol Solution: A CO₂ Absorbent with High Desorption Ratio and Low Regeneration Energy. Environmental Science & Technology, 2020, 54, 7570-7578.	4.6	20
71	Kinetics of the Liquid-Phase Oxidation of Toluene by Air. Industrial & Engineering Chemistry Research, 2007, 46, 6442-6448.	1.8	19
72	Solubility Measurement for the Reaction Systems in Pre-Esterification of High Acid Value Jatropha curcas L. Oil. Journal of Chemical & Engineering Data, 2009, 54, 1421-1425.	1.0	19

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73	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. Chinese Journal of Chemical Engineering, 2018, 26, 795-805.	1.7	19
74	A photocatalytic transformation realized by Pd/TiO2 particle size modulation: from oxidative dehydrogenation of ethane to direct dehydrogenation of ethane. Chemical Engineering Journal, 2020, 395, 125120.	6.6	19
75	An efficient methodology for utilization of K-feldspar and phosphogypsum with reduced energy consumption and CO 2 emissions. Chinese Journal of Chemical Engineering, 2016, 24, 1541-1551.	1.7	18
76	Enhanced hydrolysis of mechanically pretreated cellulose in water/CO2 system. Bioresource Technology, 2018, 261, 28-35.	4.8	18
77	Effects of mechanical activation on the digestion of ilmenite in dilute H2SO4. Chinese Journal of Chemical Engineering, 2019, 27, 575-586.	1.7	18
78	Insights into the Roasting Kinetics and Mechanism of Blast Furnace Slag with Ammonium Sulfate for CO₂ Mineralization. Industrial & Engineering Chemistry Research, 2019, 58, 14026-14036.	1.8	18
79	Preparation of edible superhydrophobic Fe foil with excellent stability and durability and its applications in food containers with little residue. New Journal of Chemistry, 2019, 43, 2908-2919.	1.4	18
80	Soda Ash Production with Low Energy Consumption Using Proton Cycled Membrane Electrolysis. Industrial & Engineering Chemistry Research, 2019, 58, 3450-3458.	1.8	18
81	Design of Organic-Free Superhydrophobic TiO₂ with Ultraviolet Stability or Ultraviolet-Induced Switchable Wettability. ACS Applied Materials & Interfaces, 2022, 14, 9864-9872.	4.0	18
82	Kinetic Study on the Sulfidation and Regeneration of Manganese-Based Regenerable Sorbent for High Temperature H₂S Removal. Industrial & Engineering Chemistry Research, 2015, 54, 1179-1188.	1.8	17
83	Supported Î²-Mo₂C on Carbon Materials for Kraft Lignin Decomposition into Aromatic Monomers in Ethanol. Industrial & Engineering Chemistry Research, 2019, 58, 12602-12610.	1.8	17
84	The role of adsorbed oleylamine on gold catalysts during synthesis for highly selective electrocatalytic reduction of CO₂ to CO. Chemical Communications, 2020, 56, 7021-7024.	2.2	17
85	Nonaqueous MEA/PEG200 Absorbent with High Efficiency and Low Energy Consumption for CO₂ Capture. Industrial & Engineering Chemistry Research, 2021, 60, 3871-3880.	1.8	17
86	Phase Diagrams of (NH₄)₂SO₄â€“Al₂(SO₄)₃â€“H₂O Ternary System: Effect of Sulfuric Acid and Its Application in Recovery of Aluminum from Coal Fly Ash. Journal of Chemical & Engineering Data, 2019, 64, 557-566.	1.0	16
87	Energy and Economic Analysis for Post-combustion CO₂ Capture using Amine-Functionalized Adsorbents in a Temperature Vacuum Swing Process. Energy & Fuels, 2019, 33, 1774-1784.	2.5	16
88	Simultaneous preparation of TiO2 and ammonium alum, and microporous SiO2 during the mineral carbonation of titanium-bearing blast furnace slag. Chinese Journal of Chemical Engineering, 2020, 28, 2256-2266.	1.7	16
89	Preparation of Silver Carbonate and its Application as Visible Lightâ€driven Photocatalyst Without Sacrificial Reagent. Photochemistry and Photobiology, 2015, 91, 1315-1323.	1.3	15
90	Aqueous carbonation of the potassium-depleted residue from potassium feldsparâ€“CaCl2 calcination for CO2 fixation. Environmental Earth Sciences, 2015, 73, 6871-6879.	1.3	15

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91	Preparation of Superhydrophobic Cu Mesh and Its Application in Rolling-Spheronization Granulation. Industrial & Engineering Chemistry Research, 2016, 55, 5545-5555.	1.8	15
92	Insight into the synergism between MnO₂ and acid sites over Mnâ€“SiO₂@TiO₂ nano-cups for low-temperature selective catalytic reduction of NO with NH₃. RSC Advances, 2018, 8, 1979-1986.	1.7	15
93	Integrated Process of Monoethanolamine-Based CO₂ Absorption and CO₂ Mineralization with SFGD Slag: Process Simulation and Life-Cycle Assessment of CO₂ Emission. ACS Sustainable Chemistry and Engineering, 2021, 9, 8238-8248.	3.2	15
94	An Integrated Absorptionâ€“Mineralization Process for CO₂ Capture and Sequestration: Reaction Mechanism, Recycling Stability, and Energy Evaluation. ACS Sustainable Chemistry and Engineering, 2021, 9, 16577-16587.	3.2	15
95	Suppression of TiO₂ Photocatalytic Activity by Low-Temperature Pulsed CVD-Grown SnO₂ Protective Layer. Industrial & Engineering Chemistry Research, 2018, 57, 8679-8688.	1.8	14
96	Phase diagrams of the MgSO4-Al2(SO4)3-(NH4)2SO4-H2O system at 25 and 55â€Â°C and their application in mineral carbonation. Fluid Phase Equilibria, 2018, 473, 226-235.	1.4	14
97	Studies on viscosity and conductivity of 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)-glycerol and CO2-DBU-glycerol solutions at temperatures from 288.1â€K to 328.1â€K. Journal of Chemical Thermodynamics, 2019, 136, 16-27.	1.0	14
98	Absorption of SO2 with recyclable melamine slurry. Separation and Purification Technology, 2020, 251, 117285.	3.9	14
99	Biomimetic Mineralization to Fabricate Superhydrophilic and Underwater Superoleophobic Filter Mesh for Oilâ€“Water Separations. Industrial & Engineering Chemistry Research, 2020, 59, 6226-6235.	1.8	14
100	Predicting phase-splitting behaviors of an amine-organic solventâ€“water system for CO2 absorption: A new model developed by density functional theory and statistical and experimental methods. Chemical Engineering Journal, 2021, 422, 130389.	6.6	14
101	Effect of impurities on the hydrolysis of low-concentration titanyl sulfate solutions. Research on Chemical Intermediates, 2015, 41, 5423-5438.	1.3	13
102	Enhancement of electricity generation in CO 2 mineralization cell by using sodium sulfate as the reaction medium. Applied Energy, 2017, 195, 991-999.	5.1	13
103	Density studies of 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)-glycerol and CO2-DBU-glycerol solutions at temperatures between 288.15â€K and 328.15â€K. Journal of Chemical Thermodynamics, 2018, 123, 8-16.	1.0	13
104	An environmentally friendly FeTiSO x catalyst with a broad operationâ€temperature window for the NH 3 â€SCR of NO x. AICHE Journal, 2019, 65, e16684.	1.8	13
105	Indirect mineral carbonation of chlorinated tailing derived from Tiâ€bearing blastâ€furnace slag coupled with simultaneous dechlorination and recovery of multiple valueâ€added products. , 2019, 9, 52-66.		13
106	Hierarchical meso- and macroporous carbon from lignin for kraft lignin decomposition to aromatic monomers. Catalysis Today, 2021, 365, 214-222.	2.2	13
107	Inter-solubility of product systems in biodiesel production from Jatropha curcas L. oil with the switchable solvent DBU/methanol. RSC Advances, 2015, 5, 8311-8317.	1.7	12
108	Photocatalytic Production of Methyl Formate by Methanol Self-Coupling: From Oxidative Dehydrogenation to Direct Dehydrogenation. Industrial & Engineering Chemistry Research, 2021, 60, 9684-9695.	1.8	12

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109	Selective oxidation of cyclopentene with H2O2 by using H3PW12O40 and TBAB as a phase transfer catalyst. Chinese Journal of Chemical Engineering, 2019, 27, 1851-1856.	1.7	11
110	Mechanistic Aspects of Highly Efficient Fe_aS_bTiO_x Catalysts for the NH₃-SCR Reaction: Insight into the Synergistic Effect of Fe and S Species. Industrial & Engineering Chemistry Research, 2020, 59, 8164-8173.	1.8	11
111	Preparation of the Mn/Î³â€Al₂O₃ acceptor for high temperature regenerative H₂S removal. Canadian Journal of Chemical Engineering, 1999, 77, 483-488.	0.9	10
112	An Environmentâ€Friendly Strategy for Oneâ€Step Turning Cr(VI) Contaminant into a Crâ€Loaded Catalyst for CO₂ Utilization. Advanced Sustainable Systems, 2018, 2, 1700165.	2.7	10
113	CO2 mineralization of natural wollastonite into porous silica and CaCO3 powders promoted via membrane electrolysis. Environmental Earth Sciences, 2018, 77, 1.	1.3	10
114	Heat integration and optimization of hydrogen production for a 1 kW low-temperature proton exchange membrane fuel cell. Chemical Engineering Science, 2015, 123, 81-91.	1.9	9
115	Recyclable CoFe2O4â€“Ag2O magnetic photocatalyst and its visible light-driven photocatalytic performance. Research on Chemical Intermediates, 2017, 43, 4487-4502.	1.3	9
116	Carbon dioxide mineralization for the disposition of blastâ€furnace slag: reaction intensification using NaCl solutions. , 2020, 10, 436-448.		9
117	DBU-based CO2 absorptionâ€“mineralization system: Reaction process, feasibility and process intensification. Chinese Journal of Chemical Engineering, 2020, 28, 1145-1155.	1.7	9
118	Principle and Technology of Ammonium Phosphate Production from Middle-Quality Phosphate Ore by a Slurry Concentration Process. Industrial & Engineering Chemistry Research, 1999, 38, 4504-4506.	1.8	8
119	Scale Formation and Its Mechanism in the Liquid-Phase Oxidation of Toluene by Air. Industrial & Engineering Chemistry Research, 2007, 46, 7826-7829.	1.8	8
120	Catalytic solvent regeneration of a CO₂â€loaded MEA solution using an acidic catalyst from industrial rough metatitanic acid. , 2020, 10, 449-460.		8
121	Highly selective hydrogenation of diesters to ethylene glycol and ethanol on aluminum-promoted CuAl/SiO2 catalysts. Catalysis Today, 2021, 368, 173-180.	2.2	8
122	CO2 mineralization of carbide slag for the production of light calcium carbonates. Chinese Journal of Chemical Engineering, 2022, 43, 86-98.	1.7	8
123	Synthesis of potassium hexatitanate whiskers using hydrothermal method. Rare Metals, 2009, 28, 24-32.	3.6	7
124	Vaporâ^'Liquid Equilibrium for Binary Systems of Cyclohexane + Cyclohexanone and + Cyclohexanol at Temperatures from (414.0 to 433.7) K. Journal of Chemical & Engineering Data, 2010, 55, 3418-3421.	1.0	7
125	Wall-loaded Pt/TiO₂/Ti catalyst and its application in ammonia oxidation reaction in microchannel reactor. RSC Advances, 2016, 6, 26637-26649.	1.7	7
126	Microwave-assisted seed preparation for producing easily phase-transformed anatase to rutile. RSC Advances, 2017, 7, 45607-45614.	1.7	7

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127	Quantitative Relationship between CO₂ Absorption Capacity and Amine Water System: DFT, Statistical, and Experimental Study. Industrial & Engineering Chemistry Research, 2019, 58, 13848-13857.	1.8	7
128	Aqueous carbonation of MgSO₄ with (NH₄)₂CO₃ for CO₂ sequestration. , 2019, 9, 209-225.		7
129	Engineering an ultrathin amorphous TiO2 layer for boosting the weatherability of TiO2 pigment with high lightening power. Chinese Journal of Chemical Engineering, 2019, 27, 2825-2834.	1.7	7
130	Ball milling promoted direct liquefaction of lignocellulosic biomass in supercritical ethanol. Frontiers of Chemical Science and Engineering, 2020, 14, 605-613.	2.3	7
131	Research on integrated CO2 absorption-mineralization and regeneration of absorbent process. Energy, 2021, 222, 120010.	4.5	7
132	Studies on surface tension of 1,8-diazabicyclo [5.4.0] undec-7-ene (DBU)-glycerol and CO2-DBU-glycerol solutions at temperatures from 288.1â€¯K to 323.1â€¯K. Journal of Chemical Thermodynamics, 2018, 125, 32-40.	1.0	6
133	The quasi-activity coefficients of non-electrolytes in aqueous solution with organic ions and its application on the phase splitting behaviors prediction for CO2 absorption. Chinese Journal of Chemical Engineering, 2022, 43, 316-323.	1.7	6
134	KINETIC MODELS FOR LIQUID-PHASE CATALYTIC OXIDATION OF TOLUENE TO BENZOIC ACID WITH PURE OXYGEN. Chemical Engineering Communications, 2010, 197, 953-962.	1.5	5
135	Residence time distribution in two-phase flow mini-channel reactor. Chemical Engineering Journal, 2011, 174, 652-659.	6.6	5
136	The fouling properties of SiO2â€“CaOâ€“P2O5 system in high-temperature rotary kiln phosphoric acid process. Chinese Journal of Chemical Engineering, 2020, 28, 1824-1831.	1.7	5
137	Regeneration of Na₂Q in an Electrochemical CO₂ Capture System. Energy & Fuels, 2021, 35, 12260-12269.	2.5	5
138	Fabrication of hematite nanowire arrays on pure iron via anodization process for superhydrophilic surfaces. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 435-440.	0.3	4
139	First principles study on formation mechanism of anodization process of titanium. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 500-511.	0.3	4
140	Ammonia Oxidation Process Catalyzed by Pt@XO₂ (X = Ti, Zr, Ce, and Ce/Zr) Prepared by Photoreduction Process. Industrial & Engineering Chemistry Research, 2018, 57, 7752-7763.	1.8	4
141	Electrochemical Acid-Catalyzed Desorption and Regeneration of MDEA CO₂-Rich Liquid by Hydroquinone Derivatives (Tiron). Energy & Fuels, 2022, 36, 4871-4879.	2.5	4
142	Influences of the [Co2+]/[Co3+] Ratio on the Process of Liquid-phase Oxidation of Toluene by Air. Chinese Journal of Chemical Engineering, 2009, 17, 613-617.	1.7	3
143	De-emulsification of 2-ethyl-1-hexanol/water emulsion using oil-wet narrow channel combined with low-speed rotation. Chinese Journal of Chemical Engineering, 2018, 26, 2048-2054.	1.7	3
144	Size-dependent superwettability adjustment strategy for preparing superhydrophilic and superhydrophobic solid particles. Applied Surface Science, 2019, 487, 304-314.	3.1	3

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145	On the role of solid particles in CO 2 bubble nucleation for solvent regeneration of MEAâ€based CO 2 capture technology. , 2019, 9, 553-566.		3
146	Nano molybdenum carbides supported on porous zeolites for Kraft lignin decomposition to aromatic monomers in ethanol. Bioresource Technology Reports, 2020, 11, 100484.	1.5	3
147	Hydrothermally Modified Graphite Felt as an Efficient Cathode for Salty Organic Wastewater Treatment. Environmental Engineering Science, 2020, 37, 790-802.	0.8	3
148	Application of pulsed chemical vapor deposition on the SiO2-coated TiO2 production within a rotary reactor at room temperature. Chinese Journal of Chemical Engineering, 2022, 45, 22-31.	1.7	3
149	A Bifunctional Multishell Catalyst with a Wide Operating Temperature Window for NO_x Abatement by Ammonia-Selective Catalytic Reduction. Industrial & Engineering Chemistry Research, 2022, 61, 5410-5418.	1.8	3
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151	Direct Methanation of CO₂ in Biogas with Hydrogen from Water Electrolysis: The Catalyst and System Efficiency. Energy & Fuels, 2022, 36, 4416-4426.	2.5	2
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