

Zhimin Liu

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.

187
papers

8,124
citations

56
h-index

82
g-index

205
ext. papers

9,242
ext. citations

7.3
avg, IF

6.02
L-index

#	Paper	IF	Citations
187	Preparation of titania/carbon nanotube composites using supercritical ethanol and their photocatalytic activity for phenol degradation under visible light irradiation. <i>Carbon</i> , 2007 , 45, 1795-1801	10.4	320
186	Facile synthesis of high quality TiO ₂ nanocrystals in ionic liquid via a microwave-assisted process. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6362-3	16.4	288
185	A protic ionic liquid catalyzes CO ₂ conversion at atmospheric pressure and room temperature: synthesis of quinazoline-2,4(1H,3H)-diones. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5922-5	16.4	186
184	Ru nanoparticles immobilized on montmorillonite by ionic liquids: a highly efficient heterogeneous catalyst for the hydrogenation of benzene. <i>Angewandte Chemie - International Edition</i> , 2005 , 45, 266-9	16.4	181
183	Highly efficient electrochemical reduction of CO to CH in an ionic liquid using a metal-organic framework cathode. <i>Chemical Science</i> , 2016 , 7, 266-273	9.4	177
182	Porous Zirconium-Phytic Acid Hybrid: a Highly Efficient Catalyst for Meerwein-Ponndorf-Verley Reductions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9399-403	16.4	169
181	Hierarchically Mesoporous o-Hydroxyazobenzene Polymers: Synthesis and Their Applications in CO ₂ Capture and Conversion. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9685-9	16.4	165
180	Very highly efficient reduction of CO to CH using metal-free N-doped carbon electrodes. <i>Chemical Science</i> , 2016 , 7, 2883-2887	9.4	152
179	Efficient Reduction of CO ₂ into Formic Acid on a Lead or Tin Electrode using an Ionic Liquid Catholyte Mixture. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9012-6	16.4	149
178	Water-Enhanced Synthesis of Higher Alcohols from CO ₂ Hydrogenation over a Pt/Co ₃ O ₄ Catalyst under Milder Conditions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 737-41	16.4	145
177	Imidazolium-Based Ionic Liquids Catalyzed Formylation of Amines Using Carbon Dioxide and Phenylsilane at Room Temperature. <i>ACS Catalysis</i> , 2015 , 5, 4989-4993	13.1	141
176	Selective electroreduction of carbon dioxide to methanol on copper selenide nanocatalysts. <i>Nature Communications</i> , 2019 , 10, 677	17.4	136
175	In situ controllable loading of ultrafine noble metal particles on titania. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6648-9	16.4	129
174	The solvent-free selective hydrogenation of nitrobenzene to aniline: an unexpected catalytic activity of ultrafine Pt nanoparticles deposited on carbon nanotubes. <i>Green Chemistry</i> , 2010 , 12, 1007	10	112
173	DBU-Based Ionic-Liquid-Catalyzed Carbonylation of o-Phenylenediamines with CO ₂ to 2-Benzimidazolones under Solvent-Free Conditions. <i>ACS Catalysis</i> , 2013 , 3, 2076-2082	13.1	111
172	Deep eutectic-solvothermal synthesis of nanostructured FeS for electrochemical N fixation under ambient conditions. <i>Chemical Communications</i> , 2018 , 54, 13010-13013	5.8	103
171	Preparation of Room-Temperature Ionic Liquids by Neutralization of 1,1,3,3-Tetramethylguanidine with Acids and their Use as Media for Mannich Reaction. <i>Synthetic Communications</i> , 2004 , 34, 3083-3089	1.7	99

170	Eosin Y-Functionalized Conjugated Organic Polymers for Visible-Light-Driven CO Reduction with H ₂ O to CO with High Efficiency. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 632-636	16.4	96
169	Mesoporous nitrogen-doped carbons with high nitrogen contents and ultrahigh surface areas: synthesis and applications in catalysis. <i>Green Chemistry</i> , 2016 , 18, 1976-1982	10	92
168	Selective oxidation of glycerol to lactic acid under acidic conditions using AuPd/TiO ₂ catalyst. <i>Green Chemistry</i> , 2013 , 15, 1520	10	92
167	Investigation of Nonionic Surfactant Dynol-604 Based Reverse Microemulsions Formed in Supercritical Carbon Dioxide. <i>Langmuir</i> , 2001 , 17, 8040-8043	4	91
166	Metalated Mesoporous Poly(triphenylphosphine) with Azo Functionality: Efficient Catalysts for CO ₂ Conversion. <i>ACS Catalysis</i> , 2016 , 6, 1268-1273	13.1	89
165	Fluorinated microporous organic polymers: design and applications in CO ₂ adsorption and conversion. <i>Chemical Communications</i> , 2014 , 50, 13910-3	5.8	89
164	A simple route to coat mesoporous SiO ₂ layer on carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3725		85
163	Pd nanoparticles immobilized on sepiolite by ionic liquids: efficient catalysts for hydrogenation of alkenes and Heck reactions. <i>Green Chemistry</i> , 2009 , 11, 96-101	10	83
162	Ionic Liquid-Catalyzed C-C Bond Construction using CO ₂ as a C1 Building Block under Mild Conditions: A Metal-Free Route to Synthesis of Benzothiazoles. <i>ACS Catalysis</i> , 2015 , 5, 6648-6652	13.1	82
161	Pd/C-catalyzed direct formylation of aromatic iodides to aryl aldehydes using carbon dioxide as a C1 resource. <i>Chemical Communications</i> , 2014 , 50, 2330-3	5.8	81
160	Conductivities and Viscosities of the Ionic Liquid [bmim][PF ₆] + Water + Ethanol and [bmim][PF ₆] + Water + Acetone Ternary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 1315-1317	2.8	78
159	Fluoro-functionalized polymeric ionic liquids: highly efficient catalysts for CO ₂ cycloaddition to cyclic carbonates under mild conditions. <i>Green Chemistry</i> , 2014 , 16, 3724	10	76
158	Ionic Liquid-Assisted Immobilization of Rh on Attapulgite and Its Application in Cyclohexene Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2185-2190	3.8	76
157	Fabrication and characterization of magnetic carbon nanotube composites. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4497		76
156	B(C ₆ F ₅) ₃ -catalyzed methylation of amines using CO ₂ as a C1 building block. <i>Green Chemistry</i> , 2015 , 17, 4189-4193	10	75
155	A Tröger's base-derived microporous organic polymer: design and applications in CO ₂ /H ₂ capture and hydrogenation of CO ₂ to formic acid. <i>Chemical Communications</i> , 2015 , 51, 1271-4	5.8	74
154	Cyclization of o-phenylenediamines by CO ₂ in the presence of H ₂ for the synthesis of benzimidazoles. <i>Green Chemistry</i> , 2013 , 15, 95-99	10	74
153	Azo-functionalized microporous organic polymers: synthesis and applications in CO ₂ capture and conversion. <i>Chemical Communications</i> , 2015 , 51, 11576-9	5.8	72

152	Methylation of C(sp)-H/C(sp)-H Bonds with Methanol Catalyzed by Cobalt System. <i>Organic Letters</i> , 2017 , 19, 5228-5231	6.2	72
151	Visible-Light-Driven Photoreduction of CO ₂ to CH ₄ over N,O,P-Containing Covalent Organic Polymer Submicrospheres. <i>ACS Catalysis</i> , 2018 , 8, 4576-4581	13.1	71
150	Large-scale production of self-assembled SnO ₂ nanospheres and their application in high-performance chemiluminescence sensors for hydrogen sulfide gas. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1791		71
149	Polypropylene/Silica Nanocomposites Prepared by in-Situ Sol-Gel Reaction with the Aid of CO ₂ . <i>Macromolecules</i> , 2005 , 38, 5617-5624	5.5	71
148	Efficient Cobalt-Catalyzed Methylation of Amines Using Methanol. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 4278-4283	5.6	70
147	Task-specific ionic liquid and CO-cocatalysed efficient hydration of propargylic alcohols to hydroxy ketones. <i>Chemical Science</i> , 2015 , 6, 2297-2301	9.4	70
146	Highly concentrated aqueous dispersions of graphene exfoliated by sodium taurodeoxycholate: dispersion behavior and potential application as a catalyst support for the oxygen-reduction reaction. <i>Chemistry - A European Journal</i> , 2012 , 18, 6972-8	4.8	69
145	Tetrabutylphosphonium-Based Ionic Liquid Catalyzed CO ₂ Transformation at Ambient Conditions: A Case of Synthesis of α -Alkylidene Cyclic Carbonates. <i>ACS Catalysis</i> , 2017 , 7, 6251-6255	13.1	68
144	Decoration carbon nanotubes with Pd and Ru nanocrystals via an inorganic reaction route in supercritical carbon dioxide-methanol solution. <i>Journal of Colloid and Interface Science</i> , 2006 , 304, 323-8	9.3	68
143	Highly effective photoreduction of CO to CO promoted by integration of CdS with molecular redox catalysts through metal-organic frameworks. <i>Chemical Science</i> , 2018 , 9, 8890-8894	9.4	66
142	Synthesis and characterization of TiO ₂ /montmorillonite nanocomposites and their application for removal of methylene blue. <i>Journal of Materials Chemistry</i> , 2006 , 16, 579-584		65
141	Pd Nanoparticles Immobilized on Molecular Sieves by Ionic Liquids: Heterogeneous Catalysts for Solvent-Free Hydrogenation. <i>Angewandte Chemie</i> , 2004 , 116, 1421-1423	3.6	63
140	Coating carbon nanotubes with metal oxides in a supercritical carbon dioxide-methanol solution. <i>Carbon</i> , 2007 , 45, 2589-2596	10.4	62
139	Azole-Anion-Based Aprotic Ionic Liquids: Functional Solvents for Atmospheric CO Transformation into Various Heterocyclic Compounds. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2735-2740	4.5	61
138	Control Synthesis of Silver Nanosheets, Chainlike Sheets, and Microwires via a Simple Solvent-Free Thermal Method. <i>Crystal Growth and Design</i> , 2007 , 7, 900-904	3.5	60
137	Synthesizing Ag Nanoparticles of Small Size on a Hierarchical Porosity Support for the Carboxylative Cyclization of Propargyl Alcohols with CO ₂ under Ambient Conditions. <i>Chemistry - A European Journal</i> , 2015 , 21, 15924-8	4.8	58
136	Desulfurization of Flue Gas: SO ₂ Absorption by an Ionic Liquid. <i>Angewandte Chemie</i> , 2004 , 116, 2469-2473	16	58
135	A Novel Method to Immobilize Ru Nanoparticles on SBA-15 Firmly by Ionic Liquid and Hydrogenation of Arene. <i>Catalysis Letters</i> , 2005 , 103, 59-62	2.8	58

134	Highly mesoporous carbons derived from biomass feedstocks templated with eutectic salt ZnCl ₂ /KCl. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19324-19329	13	57
133	A green and effective method to synthesize ionic liquids: supercritical CO ₂ route. <i>Green Chemistry</i> , 2005 , 7, 701	10	57
132	Wacker oxidation of 1-hexene in 1-n-butyl-3-methylimidazolium hexafluorophosphate ([bmim][PF ₆]), supercritical (SC) CO ₂ , and SC CO ₂ /[bmim][PF ₆] mixed solvent. <i>New Journal of Chemistry</i> , 2002 , 26, 1246-1248	3.6	53
131	Microstructural and electrochemical characterization of RuO ₂ /CNT composites synthesized in supercritical diethyl amine. <i>Carbon</i> , 2006 , 44, 888-893	10.4	50
130	Efficient Reduction of CO ₂ into Formic Acid on a Lead or Tin Electrode using an Ionic Liquid Catholyte Mixture. <i>Angewandte Chemie</i> , 2016 , 128, 9158-9162	3.6	49
129	Hierarchically Mesoporous o-Hydroxyazobenzene Polymers: Synthesis and Their Applications in CO ₂ Capture and Conversion. <i>Angewandte Chemie</i> , 2016 , 128, 9837-9841	3.6	49
128	Selective oxidation of glycerol to formic acid catalyzed by Ru(OH) ₄ /r-GO in the presence of FeCl ₃ . <i>Applied Catalysis B: Environmental</i> , 2014 , 154-155, 267-273	21.8	48
127	Supercritical CO ₂ -facilitating large-scale synthesis of CeO ₂ nanowires and their application for solvent-free selective hydrogenation of nitroarenes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1947		48
126	Sonochemical Formation of Single-Crystalline Gold Nanobelts. <i>Angewandte Chemie</i> , 2006 , 118, 1134-1137	3.6	48
125	A Protic Ionic Liquid Catalyzes CO ₂ Conversion at Atmospheric Pressure and Room Temperature: Synthesis of Quinazoline-2,4(1H,3H)-diones. <i>Angewandte Chemie</i> , 2014 , 126, 6032-6035	3.6	47
124	Au catalyzed synthesis of benzimidazoles from 2-nitroanilines and CO ₂ /H ₂ . <i>Green Chemistry</i> , 2014 , 16, 3039	10	47
123	Effect of dissolved CO ₂ on the conductivity of the ionic liquid [bmim][PF ₆]. <i>New Journal of Chemistry</i> , 2003 , 27, 333-336	3.6	47
122	Solvothermal synthesis of mesoporous Eu ₂ O ₃ /TiO ₂ composites. <i>Microporous and Mesoporous Materials</i> , 2005 , 81, 169-174	5.3	47
121	The immobilization of glycidyl-group-containing ionic liquids and its application in CO ₂ cycloaddition reactions. <i>Chemistry - A European Journal</i> , 2010 , 16, 6687-92	4.8	46
120	A new method to recover the nanoparticles from reverse micelles: recovery of ZnS nanoparticles synthesized in reverse micelles by compressed CO ₂ . <i>Chemical Communications</i> , 2001 , 2724-2725	5.8	46
119	Fluoro-functionalized polymeric N-heterocyclic carbene-zinc complexes: efficient catalyst for formylation and methylation of amines with CO ₂ as a C ₁ -building block. <i>RSC Advances</i> , 2015 , 5, 19613-19619	3.7	44
118	Porous Fe ₃ O ₄ nanoparticles: synthesis and application in catalyzing epoxidation of styrene. <i>Journal of Colloid and Interface Science</i> , 2011 , 364, 298-303	9.3	44
117	A study of tri-phasic behavior of ionic liquid/methanol/CO ₂ systems at elevated pressures. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 2352-2357	3.6	44

116	Synthesis of dimethyl carbonate using CO ₂ and methanol: enhancing the conversion by controlling the phase behavior. <i>Green Chemistry</i> , 2002 , 4, 467-471	10	44
115	Visible-light-driven conversion of CO ₂ from air to CO using an ionic liquid and a conjugated polymer. <i>Green Chemistry</i> , 2017 , 19, 5777-5781	10	42
114	Reductive amination/cyclization of levulinic acid to pyrrolidones versus pyrrolidines by switching the catalyst from AlCl ₃ to RuCl ₃ under mild conditions. <i>Green Chemistry</i> , 2017 , 19, 3525-3529	10	39
113	Heteropolyanion-based ionic liquids catalysed conversion of cellulose into formic acid without any additives. <i>Green Chemistry</i> , 2014 , 16, 4931-4935	10	39
112	Controllable synthesis of supported Cu _M (M =Pt, Pd, Ru, Rh) bimetal nanocatalysts and their catalytic performances. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9117		39
111	Ru Nanoparticles Immobilized on Montmorillonite by Ionic Liquids: A Highly Efficient Heterogeneous Catalyst for the Hydrogenation of Benzene. <i>Angewandte Chemie</i> , 2006 , 118, 272-275	3.6	38
110	An Efficient and General Method for Formylation of Aryl Bromides with CO ₂ and Poly(methylhydrosiloxane). <i>Chemistry - A European Journal</i> , 2016 , 22, 1097-102	4.8	37
109	Composites Prepared by the Polymerization of Styrene within Supercritical CO ₂ -Swollen Polypropylene. <i>Chemistry of Materials</i> , 2002 , 14, 4619-4623	9.6	34
108	N-Doped porous carbon nanotubes: synthesis and application in catalysis. <i>Chemical Communications</i> , 2017 , 53, 929-932	5.8	33
107	Lactate-Based Ionic Liquid Catalyzed Reductive Amination/Cyclization of Keto Acids under Mild Conditions: A Metal-Free Route To Synthesize Lactams. <i>ACS Catalysis</i> , 2017 , 7, 7772-7776	13.1	33
106	Grafting of 2-Hydroxyethyl Methacrylate onto Isotactic Poly(propylene) Using Supercritical CO ₂ as a Solvent and Swelling Agent. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 2187-2194	2.6	33
105	Modification of isotactic polypropylene film by grafting of acrylic acid using supercritical CO ₂ as a swelling agent. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3565-3569		33
104	Light-driven integration of the reduction of nitrobenzene to aniline and the transformation of glycerol into valuable chemicals in water. <i>RSC Advances</i> , 2015 , 5, 36347-36352	3.7	32
103	Ionic liquid modified montmorillonite-supported Ru nanoparticles: highly efficient heterogeneous catalysts for the hydrodeoxygenation of phenolic compounds to cycloalkanes. <i>Catalysis Science and Technology</i> , 2014 , 4, 2658	5.5	31
102	Selective oxidation of cyclohexane in compressed CO ₂ and in liquid solvents over MnAPO-5 molecular sieve. <i>Green Chemistry</i> , 2002 , 4, 426-430	10	30
101	Ionic liquid-stabilized graphene and its use in immobilizing a metal nanocatalyst. <i>RSC Advances</i> , 2012 , 2, 8189	3.7	29
100	Carbon Nitride-Based Single-Atom Cu Catalysts for Highly Efficient Carboxylation of Alkynes with Atmospheric CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7327-7335	3.9	27
99	Recent Advances in Photocatalytic CO ₂ Reduction Using Earth-Abundant Metal Complexes-Derived Photocatalysts. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 455-460	4.9	27

98	Cooperative effect from cation and anion of pyridine-containing anion-based ionic liquids for catalysing CO ₂ transformation at ambient conditions. <i>Science China Chemistry</i> , 2017 , 60, 958-963	7.9	26
97	Reductive formylation of amines with CO ₂ using sodium borohydride: A catalyst-free route. <i>Journal of CO₂ Utilization</i> , 2017 , 22, 208-211	7.6	25
96	Pyridine-functionalized organic porous polymers: applications in efficient CO ₂ adsorption and conversion. <i>New Journal of Chemistry</i> , 2017 , 41, 2869-2872	3.6	24
95	One-pot solvothermal method to synthesize platinum/W ₁₈ O ₄₉ ultrafine nanowires and their catalytic performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3354		23
94	Imidazolium cation mediated synthesis of polystyrene-polyaniline core-shell structures. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5406		23
93	Atmospheric CO ₂ promoted synthesis of N-containing heterocycles over B(C ₆ F ₅) ₃ catalyst. <i>New Journal of Chemistry</i> , 2016 , 40, 8282-8287	3.6	23
92	Visible-light-driven photoreduction of CO ₂ to CO over porous nitrogen-deficient carbon nitride nanotubes. <i>Catalysis Science and Technology</i> , 2019 , 9, 2485-2492	5.5	22
91	Reductive cleavage of inert aryl C-O bonds to produce arenes. <i>Chemical Communications</i> , 2015 , 51, 12213-8		22
90	Synthesis of metalloporphyrin-based conjugated microporous polymer spheres directed by bipyridine-type ligands. <i>Chemical Communications</i> , 2015 , 51, 7352-5	5.8	22
89	Nanoporous Cu/Ni oxide composites: efficient catalysts for electrochemical reduction of CO ₂ in aqueous electrolytes. <i>Green Chemistry</i> , 2018 , 20, 3705-3710	10	22
88	N-doped carbon supported Pd catalysts for N-formylation of amines with CO ₂ /H ₂ . <i>Science China Chemistry</i> , 2018 , 61, 725-731	7.9	22
87	Rhodium-Catalyzed Formylation of Aryl Halides with CO and H ₂ . <i>Organic Letters</i> , 2018 , 20, 5130-5134	6.2	22
86	Preparation of cadmium sulfide/poly(methyl methacrylate) composites by precipitation with compressed CO ₂ . <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1643-1648	2.9	22
85	A rose bengal-functionalized porous organic polymer for carboxylative cyclization of propargyl alcohols with CO. <i>Chemical Communications</i> , 2019 , 55, 12475-12478	5.8	22
84	Mesoporous imine-based organic polymer: catalyst-free synthesis in water and application in CO conversion. <i>Chemical Communications</i> , 2018 , 54, 7633-7636	5.8	21
83	Co-catalyzed Hydrogenation of Levulinic Acid to Valerolactone under Atmospheric Pressure. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18236-18241	8.3	21
82	Ti ³⁺ self-doped TiO _x @anatase core-shell structure with enhanced visible light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6138	13	21
81	Effect of compressed CO ₂ on the properties of AOT reverse micelles studied by spectroscopy and phase behavior. <i>Journal of Chemical Physics</i> , 2003 , 119, 4873-4878	3.9	20

80	Carbon onions synthesized via thermal reduction of glycerin with magnesium. <i>Materials Chemistry and Physics</i> , 2005 , 93, 178-180	4.4	20
79	Carbon nanoflowers synthesized by a reduction-pyrolysis-catalysis route. <i>Materials Letters</i> , 2005 , 59, 456-458	3.3	20
78	Hydrosilane-promoted cyclization of 2-aminothiophenols by CO ₂ to benzothiazoles. <i>RSC Advances</i> , 2014 , 4, 56957-56960	3.7	19
77	Ni Promoted Pt and Pd Catalysts for Glycerol Oxidation to Lactic Acid. <i>Clean - Soil, Air, Water</i> , 2014 , 42, 1140-1144	1.6	18
76	Ultrasonication-assisted uniform decoration of carbon nanotubes by various particles with controlled size and loading. <i>Carbon</i> , 2011 , 49, 4376-4384	10.4	17
75	Synthesis and characterization of polyether structure carbon nitride. <i>Journal of Materials Research</i> , 2004 , 19, 1736-1741	2.5	17
74	Hydrogen-Bonding Catalyzed Ring-Closing C-O/C-O Metathesis of Aliphatic Ethers over Ionic Liquid under Metal-Free Conditions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11850-11855	16.4	17
73	Cu-catalyzed aerobic oxygenation of 2-phenoxyacetophenones to alkyloxy acetophenones. <i>RSC Advances</i> , 2016 , 6, 27126-27129	3.7	16
72	Synthesis of montmorillonite/polystyrene nanocomposites in supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1194-1197	2.9	16
71	Effects of ultrasound on the microenvironment in reverse micelles and synthesis of nanorods and nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 2391	3.6	16
70	Preparation of mesoporous MCM-41/poly(acrylic acid) composites using supercritical CO ₂ as a solvent. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1373		16
69	Reductive Coupling of CO, Primary Amine, and Aldehyde at Room Temperature: A Versatile Approach to Unsymmetrically N,N-Disubstituted Formamides. <i>Chemistry - A European Journal</i> , 2017 , 23, 9721-9725	4.8	14
68	110th Anniversary: Ionic Liquid Promoted CO ₂ Hydrogenation to Free Formic Acid over Pd/C. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6333-6339	3.9	14
67	Preparation of Poly(vinyl chloride)/Polystyrene Miscible Blends Using Supercritical CO ₂ as a Swelling Agent. <i>Macromolecular Rapid Communications</i> , 2002 , 23, 626	4.8	14
66	Cobalt-Catalyzed Synthesis of Unsymmetrically N, N-Disubstituted Formamides via Reductive Coupling of Primary Amines and Aldehydes with CO and H ₂ . <i>Organic Letters</i> , 2018 , 20, 6622-6626	6.2	14
65	Ionic liquid/HO-mediated synthesis of mesoporous organic polymers and their application in methylation of amines. <i>Chemical Communications</i> , 2017 , 53, 5962-5965	5.8	13
64	Cobalt-catalyzed synthesis of N-containing heterocycles via cyclization of ortho-substituted anilines with CO ₂ /H ₂ . <i>Green Chemistry</i> , 2019 , 21, 1695-1701	10	13
63	Synthesis of renewable acetic acid from CO and lignin over an ionic liquid-based catalytic system. <i>Chemical Communications</i> , 2019 , 55, 3069-3072	5.8	13

62	A Simple and Efficient Route to Prepare Inorganic Compound/Polymer Composites in Supercritical Fluids. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 787-792	4.8	13
61	Compressed Ethylene-Assisted Formation of the Reverse Micelle of PEOBPOBEO Copolymer. <i>Macromolecules</i> , 2003 , 36, 1289-1294	5.5	13
60	Ionic-Liquid-Catalyzed Approaches under Metal-Free Conditions. <i>Accounts of Chemical Research</i> , 2021 ,	24.3	13
59	Direct Z-Scheme Heterojunction of SnS /Sulfur-Bridged Covalent Triazine Frameworks for Visible-Light-Driven CO Photoreduction. <i>ChemSusChem</i> , 2020 , 13, 6278-6283	8.3	13
58	Photocatalytic Reduction of Carbon Dioxide over Quinacridone Nanoparticles Supported on Reduced Graphene Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 9636-9643	3.9	12
57	Recent advances in electrochemical reduction of CO ₂ . <i>Current Opinion in Green and Sustainable Chemistry</i> , 2019 , 16, 77-84	7.9	12
56	Copper-catalyzed synthesis of benzanilides from lignin model substrates 2-phenoxyacetophenones under an air atmosphere. <i>New Journal of Chemistry</i> , 2018 , 42, 1223-1227	3.6	12
55	Chitosan-mediated synthesis of mesoporous Fe ₂ O ₃ nanoparticles and their applications in catalyzing selective oxidation of cyclohexane. <i>Science China Chemistry</i> , 2010 , 53, 1502-1508	7.9	12
54	Choline-based ionic liquids for CO ₂ capture and conversion. <i>Science China Chemistry</i> , 2019 , 62, 256-261	7.9	12
53	Selective synthesis of formamides, 1,2-bis(N-heterocyclic)ethanes and methylamines from cyclic amines and CO/H catalyzed by an ionic liquid-Pd/C system. <i>Chemical Science</i> , 2019 , 10, 9822-9828	9.4	11
52	Visible Light-Driven Photoreduction of CO ₂ to CH ₄ over TiO ₂ Using a Multiple-Site Ionic Liquid as an Absorbent and Photosensitizer. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9088-9094	8.3	11
51	Ethanol-mediated N-formylation of amines with CO ₂ /H ₂ over cobalt catalysts. <i>New Journal of Chemistry</i> , 2018 , 42, 13933-13937	3.6	11
50	Polyurea-supported metal nanocatalysts: synthesis, characterization and application in selective hydrogenation of o-chloronitrobenzene. <i>Journal of Colloid and Interface Science</i> , 2014 , 424, 44-8	9.3	11
49	CsF-promoted carboxylation of aryl(hetaryl) terminal alkynes with atmospheric CO ₂ at room temperature. <i>New Journal of Chemistry</i> , 2017 , 41, 9250-9255	3.6	11
48	In situ loading of palladium nanoparticles on mica and their catalytic applications. <i>Journal of Colloid and Interface Science</i> , 2011 , 353, 269-74	9.3	11
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