Buxing Han

List of Publications by Year
in descending order

572 papers	35,836 citations	2963 93 h-index	6818 155 g-index
599 all docs	599 docs citations	599 times ranked	25596 citing authors

#	Article	IF	Citations
1	Fundamentals and Challenges of Electrochemical CO2 Reduction Using Two-Dimensional Materials. CheM, 2017, 3, 560-587.	5.8	815
2	Green Carbon Science: Scientific Basis for Integrating Carbon Resource Processing, Utilization, and Recycling. Angewandte Chemie - International Edition, 2013, 52, 9620-9633.	7.2	750
3	Catalytic Transformation of Lignocellulose into Chemicals and Fuel Products in Ionic Liquids. Chemical Reviews, 2017, 117, 6834-6880.	23.0	706
4	Selective Phenol Hydrogenation to Cyclohexanone Over a Dual Supported Pdâ€"Lewis Acid Catalyst. Science, 2009, 326, 1250-1252.	6.0	566
5	Desulfurization of Flue Gas: SO2 Absorption by an Ionic Liquid. Angewandte Chemie - International Edition, 2004, 43, 2415-2417.	7.2	504
6	CO₂ Cycloaddition Reactions Catalyzed by an Ionic Liquid Grafted onto a Highly Crossâ€Linked Polymer Matrix. Angewandte Chemie - International Edition, 2007, 46, 7255-7258.	7.2	450
7	Efficient conversion of glucose into 5-hydroxymethylfurfural catalyzed by a common Lewis acid SnCl4 in an ionic liquid. Green Chemistry, 2009, 11, 1746.	4.6	442
8	MOF-5/n-Bu4NBr: an efficient catalyst system for the synthesis of cyclic carbonates from epoxides and CO2 under mild conditions. Green Chemistry, 2009, 11, 1031.	4.6	427
9	Preparation of titania/carbon nanotube composites using supercritical ethanol and their photocatalytic activity for phenol degradation under visible light irradiation. Carbon, 2007, 45, 1795-1801.	5.4	341
10	Microemulsions with ionic liquid polar domains. Physical Chemistry Chemical Physics, 2004, 6, 2914.	1.3	332
11	Solubility of CO₂ in a Choline Chloride + Urea Eutectic Mixture. Journal of Chemical & Engineering Data, 2008, 53, 548-550.	1.0	328
12	Adhesion and proliferation of OCT-1 osteoblast-like cells on micro- and nano-scale topography structured poly(l-lactide). Biomaterials, 2005, 26, 4453-4459.	5.7	322
13	Facile Synthesis of High Quality TiO2 Nanocrystals in Ionic Liquid via a Microwave-Assisted Process. Journal of the American Chemical Society, 2007, 129, 6362-6363.	6.6	310
14	Conversion of fructose to 5-hydroxymethylfurfural using ionic liquids prepared from renewable materials. Green Chemistry, 2008, 10, 1280.	4.6	306
15	TX-100/Water/1-Butyl-3-methylimidazolium Hexafluorophosphate Microemulsions. Langmuir, 2005, 21, 5681-5684.	1.6	300
16	Carbon dioxide electroreduction to C2 products over copper-cuprous oxide derived from electrosynthesized copper complex. Nature Communications, 2019, 10, 3851.	5.8	288
17	Metalâ€"Organic Framework Nanospheres with Wellâ€Ordered Mesopores Synthesized in an Ionic Liquid/CO₂/Surfactant System. Angewandte Chemie - International Edition, 2011, 50, 636-639.	7.2	280
18	Mannich reaction using acidic ionic liquids as catalysts and solventsElectronic supplementary information (ESI) available: spectral data for the Mannich products, IR spectrum of the acidic ionic liquids. See http://www.rsc.org/suppdata/gc/b3/b309700p/. Green Chemistry, 2004, 6, 75.	4.6	271

#	Article	IF	Citations
19	Hydrogenation of Carbon Dioxide is Promoted by a Taskâ€Specific Ionic Liquid. Angewandte Chemie - International Edition, 2008, 47, 1127-1129.	7.2	269
20	Highly efficient synthesis of cyclic carbonates from CO₂and epoxides over cellulose/KI. Chemical Communications, 2011, 47, 2131-2133.	2.2	264
21	Highly Electrocatalytic Ethylene Production from CO₂ on Nanodefective Cu Nanosheets. Journal of the American Chemical Society, 2020, 142, 13606-13613.	6.6	260
22	Selective electroreduction of carbon dioxide to methanol on copper selenide nanocatalysts. Nature Communications, 2019, 10, 677.	5.8	258
23	Conversion of glucose and cellulose into value-added products in water and ionic liquids. Green Chemistry, 2013, 15, 2619.	4.6	256
24	Absorption of CO2 by ionic liquid/polyethylene glycol mixture and the thermodynamic parameters. Green Chemistry, 2008, 10, 879.	4.6	242
25	Manganese acting as a high-performance heterogeneous electrocatalyst in carbon dioxide reduction. Nature Communications, 2019, 10, 2980.	5.8	235
26	Transformation of Atmospheric CO₂ Catalyzed by Protic Ionic Liquids: Efficient Synthesis of 2â€Oxazolidinones. Angewandte Chemie - International Edition, 2015, 54, 5399-5403.	7.2	229
27	Supported choline chloride/urea as a heterogeneous catalyst for chemical fixation of carbon dioxide to cyclic carbonates. Green Chemistry, 2007, 9, 169-172.	4.6	228
28	Porous Zirconiumâ€"Phytic Acid Hybrid: a Highly Efficient Catalyst for Meerweinâ€"Ponndorfâ€"Verley Reductions. Angewandte Chemie - International Edition, 2015, 54, 9399-9403.	7.2	227
29	Sonochemical Formation of Single-Crystalline Gold Nanobelts. Angewandte Chemie - International Edition, 2006, 45, 1116-1119.	7.2	226
30	Molybdenumâ€"Bismuth Bimetallic Chalcogenide Nanosheets for Highly Efficient Electrocatalytic Reduction of Carbon Dioxide to Methanol. Angewandte Chemie - International Edition, 2016, 55, 6771-6775.	7.2	225
31	Highly efficient electrochemical reduction of CO₂ to CH₄ in an ionic liquid using a metalâ€"organic framework cathode. Chemical Science, 2016, 7, 266-273.	3.7	225
32	Pd Nanoparticles Immobilized on Molecular Sieves by Ionic Liquids: Heterogeneous Catalysts for Solvent-Free Hydrogenation. Angewandte Chemie - International Edition, 2004, 43, 1397-1399.	7.2	224
33	Highly Efficient Electroreduction of CO₂ to Methanol on Palladiumâ€"Copper Bimetallic Aerogels. Angewandte Chemie - International Edition, 2018, 57, 14149-14153.	7.2	222
34	Efficient SO2 absorption by renewable choline chlorideâ€"glycerol deep eutectic solvents. Green Chemistry, 2013, 15, 2261.	4.6	215
35	A cyclic voltammetric technique for the detection of micro-regions of bmimPF6/Tween 20/H2O microemulsions and their performance characterization by UV-Visspectroscopy. Green Chemistry, 2006, 8, 43-49.	4.6	205
36	Waterâ€Enhanced Synthesis of Higher Alcohols from CO₂ Hydrogenation over a Pt/Co₃O₄ Catalyst under Milder Conditions. Angewandte Chemie - International Edition, 2016, 55, 737-741.	7.2	203

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37	Efficient Reduction of CO₂ into Formic Acid on a Lead or Tin Electrode using an Ionic Liquid Catholyte Mixture. Angewandte Chemie - International Edition, 2016, 55, 9012-9016.	7.2	202
38	MoP Nanoparticles Supported on Indiumâ€Doped Porous Carbon: Outstanding Catalysts for Highly Efficient CO₂ Electroreduction. Angewandte Chemie - International Edition, 2018, 57, 2427-2431.	7.2	199
39	Ru Nanoparticles Immobilized on Montmorillonite by Ionic Liquids: A Highly Efficient Heterogeneous Catalyst for the Hydrogenation of Benzene. Angewandte Chemie - International Edition, 2006, 45, 266-269.	7.2	193
40	Hydrogenation of olefins using ligand-stabilized palladium nanoparticles in an ionic liquid. Chemical Communications, 2003, , 1654.	2.2	192
41	Direct conversion of inulin to 5-hydroxymethylfurfural in biorenewable ionic liquids. Green Chemistry, 2009, 11, 873.	4.6	187
42	Very highly efficient reduction of CO₂to CH₄using metal-free N-doped carbon electrodes. Chemical Science, 2016, 7, 2883-2887.	3.7	183
43	Solvent-free synthesis of substituted ureas from CO2 and amines with a functional ionic liquid as the catalyst. Green Chemistry, 2008, 10, 465.	4.6	180
44	Synthesis of cyclic carbonates from epoxides and CO2 catalyzed by potassium halide in the presence of Î²-cyclodextrin. Green Chemistry, 2008, 10, 1337.	4.6	179
45	Highly mesoporous metalâ€“organic framework assembled in a switchable solvent. Nature Communications, 2014, 5, 4465.	5.8	177
46	Imidazolium-Based Ionic Liquids Catalyzed Formylation of Amines Using Carbon Dioxide and Phenylsilane at Room Temperature. ACS Catalysis, 2015, 5, 4989-4993.	5.5	173
47	Study on the Phase Behaviors, Viscosities, and Thermodynamic Properties of CO2/[C4mim][PF6]/Methanol System at Elevated Pressures. Chemistry - A European Journal, 2003, 9, 3897-3903.	1.7	171
48	Dispersion of graphene sheets in ionic liquid [bmim][PF₆] stabilized by an ionic liquid polymer. Chemical Communications, 2010, 46, 386-388.	2.2	169
49	Cycloaddition of CO2 to epoxides catalyzed by imidazolium-based polymeric ionic liquids. Green Chemistry, 2013, 15, 1584.	4.6	169
50	A new porous Zr-containing catalyst with a phenate group: an efficient catalyst for the catalytic transfer hydrogenation of ethyl levulinate to Î³-valerolactone. Green Chemistry, 2015, 17, 1626-1632.	4.6	163
51	Eosinâ€…Yâ€Functionalized Conjugated Organic Polymers for Visibleâ€Lightâ€Driven CO₂ Reduction with H₂O to CO with High Efficiency. Angewandte Chemie - International Edition, 2019, 58, 632-636.	7.2	162
52	Functional ionic liquid from biorenewable materials: synthesis and application as a catalyst in direct aldol reactions. Tetrahedron Letters, 2007, 48, 5613-5617.	0.7	149
53	The catalytic mechanism of KI and the co-catalytic mechanism of hydroxyl substances for cycloaddition of CO2 with propylene oxide. Green Chemistry, 2012, 14, 2410.	4.6	149
54	Highly Efficient Electroreduction of CO₂ to C2+ Alcohols on Heterogeneous Dual Active Sites. Angewandte Chemie - International Edition, 2020, 59, 16459-16464.	7.2	148

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55	Green Carbon Science: Efficient Carbon Resource Processing, Utilization, and Recycling towards Carbon Neutrality. Angewandte Chemie - International Edition, 2022, 61, .	7.2	146
56	MIL-125-NH₂@TiO₂ Coreâ€"Shell Particles Produced by a Post-Solvothermal Route for High-Performance Photocatalytic H₂ Production. ACS Applied Materials & Interfaces, 2018, 10, 16418-16423.	4.0	143
57	Atomic Indium Catalysts for Switching CO₂ Electroreduction Products from Formate to CO. Journal of the American Chemical Society, 2021, 143, 6877-6885.	6.6	140
58	Synthesis of liquid fuel via direct hydrogenation of CO ₂. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12654-12659.	3.3	138
59	Boosting CO₂ Electroreduction on N,Pâ€Coâ€doped Carbon Aerogels. Angewandte Chemie - International Edition, 2020, 59, 11123-11129.	7.2	138
60	Hydrogenation of CO₂ to Formic Acid Promoted by a Diamineâ€Functionalized Ionic Liquid. ChemSusChem, 2009, 2, 234-238.	3.6	137
61	Synthesis of acetic acid via methanol hydrocarboxylation with CO2 and H2. Nature Communications, 2016, 7, 11481.	5.8	137
62	Zinc(<scp>ii</scp>)-catalyzed reactions of carbon dioxide and propargylic alcohols to carbonates at room temperature. Green Chemistry, 2016, 18, 382-385.	4.6	136
63	Cobalt catalysts: very efficient for hydrogenation of biomass-derived ethyl levulinate to gamma-valerolactone under mild conditions. Green Chemistry, 2014, 16, 3870-3875.	4.6	134
64	Reversible Capture of SO₂ through Functionalized Ionic Liquids. ChemSusChem, 2013, 6, 1191-1195.	3.6	131
65	Synthesis of Functional Nanomaterials in Ionic Liquids. Advanced Materials, 2016, 28, 1011-1030.	11.1	129
66	Immobilization of Pdnanoparticles with functional ionic liquid grafted onto cross-linked polymer for solvent-free Heck reaction. Green Chemistry, 2010, 12, 65-69.	4.6	126
67	Enhancing the electrocatalytic activity of CoO for the oxidation of 5-hydroxymethylfurfural by introducing oxygen vacancies. Green Chemistry, 2020, 22, 843-849.	4.6	126
68	Metalated Mesoporous Poly(triphenylphosphine) with Azo Functionality: Efficient Catalysts for CO₂ Conversion. ACS Catalysis, 2016, 6, 1268-1273.	5.5	122
69	Surfactant-directed assembly of mesoporous metalâ€"organic framework nanoplates in ionic liquids. Chemical Communications, 2012, 48, 8688.	2.2	120
70	Dual-ionic liquid system: an efficient catalyst for chemical fixation of CO₂ to cyclic carbonates under mild conditions. Green Chemistry, 2018, 20, 2990-2994.	4.6	120
71	Efficient synthesis of quinazoline-2,4(1H,3H)-diones from CO₂using ionic liquids as a dual solventâ€"catalyst at atmospheric pressure. Green Chemistry, 2014, 16, 221-225.	4.6	118
72	Reverse Micelles in Carbon Dioxide with Ionic-Liquid Domains. Angewandte Chemie - International Edition, 2007, 46, 3313-3315.	7.2	117

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73	Hydrogenolysis of glycerol catalyzed by Ru-Cu bimetallic catalysts supported on clay with the aid of ionic liquids. Green Chemistry, 2009, 11, 1000.	4.6	115
74	Synthesis of ketones from biomass-derived feedstock. Nature Communications, 2017, 8, 14190.	5.8	115
75	Large-scale production of high-quality graphene using glucose and ferric chloride. Chemical Science, 2014, 5, 4656-4660.	3.7	113
76	Solvent-free Heck reaction catalyzed by a recyclable Pd catalyst supported on SBA-15 via an ionic liquid. Green Chemistry, 2008, 10, 59-66.	4.6	111
77	Ionic liquid accelerates the crystallization of Zr-based metalâ€“organic frameworks. Nature Communications, 2017, 8, 175.	5.8	111
78	Ru nanoparticles immobilized on metalâ€“organic framework nanorods by supercritical CO2-methanol solution: highly efficient catalyst. Green Chemistry, 2011, 13, 2078.	4.6	108
79	Preparation of Roomâ€Temperature Ionic Liquids by Neutralization of 1,1,3,3â€Tetramethylguanidine with Acids and their Use as Media for Mannich Reaction. Synthetic Communications, 2004, 34, 3083-3089.	1.1	107
80	Ambient Reductive Amination of Levulinic Acid to Pyrrolidones over Pt Nanocatalysts on Porous TiO₂ Nanosheets. Journal of the American Chemical Society, 2019, 141, 4002-4009.	6.6	106
81	Hexagonal Liquid Crystalline Phases Formed in Ternary Systems of Brij 97âˆ'Waterâˆ'Ionic Liquids. Langmuir, 2005, 21, 4931-4937.	1.6	105
82	Ionic Liquid-Catalyzed Câ€“S Bond Construction using CO₂ as a C1 Building Block under Mild Conditions: A Metal-Free Route to Synthesis of Benzothiazoles. ACS Catalysis, 2015, 5, 6648-6652.	5.5	105
83	Biomass-derived Î³-valerolactone as an efficient solvent and catalyst for the transformation of CO₂ to formamides. Green Chemistry, 2016, 18, 3956-3961.	4.6	105
84	Direct aldol reactions catalyzed by 1,1,3,3-tetramethylguanidine lactate without solvent. Green Chemistry, 2005, 7, 514.	4.6	104
85	Emerging heterogeneous catalysts for biomass conversion: studies of the reaction mechanism. Chemical Society Reviews, 2021, 50, 11270-11292.	18.7	102
86	Highly selective photocatalytic oxidation of biomass-derived chemicals to carboxyl compounds over Au/TiO₂. Green Chemistry, 2017, 19, 1075-1081.	4.6	101
87	Synthesis of Carbonâ€Nanotube Composites Using Supercritical Fluids and Their Potential Applications. Advanced Materials, 2009, 21, 825-829.	11.1	100
88	Sustainable production of benzene from lignin. Nature Communications, 2021, 12, 4534.	5.8	100
89	Investigation of Nonionic Surfactant Dynol-604 Based Reverse Microemulsions Formed in Supercritical Carbon Dioxide. Langmuir, 2001, 17, 8040-8043.	1.6	99
90	Visible-Light-Driven Photoreduction of CO₂ to CH₄ over N,O,P-Containing Covalent Organic Polymer Submicrospheres. ACS Catalysis, 2018, 8, 4576-4581.	5.5	99

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91	Photocatalytic CO₂ Transformation to CH₄ by Ag/Pd Bimetals Supported on N-Doped TiO₂ Nanosheet. ACS Applied Materials & Interfaces, 2018, 10, 24516-24522.	4.0	99
92	One-pot conversion of CO2 and glycerol to value-added products using propylene oxide as the coupling agent. Green Chemistry, 2012, 14, 1743.	4.6	98
93	Stabilization of Cu⁺by tuning a CuOâ€“CeO₂interface for selective electrochemical CO₂reduction to ethylene. Green Chemistry, 2020, 22, 6540-6546.	4.6	98
94	One-Step Synthesis of Highly Efficient Nanocatalysts on the Supports with Hierarchical Pores Using Porous Ionic Liquid-Water Gel. Journal of the American Chemical Society, 2014, 136, 3768-3771.	6.6	95
95	Solvent determines the formation and properties of metalâ€“organic frameworks. RSC Advances, 2015, 5, 37691-37696.	1.7	95
96	Highly effective photoreduction of CO₂ to CO promoted by integration of CdS with molecular redox catalysts through metalâ€“organic frameworks. Chemical Science, 2018, 9, 8890-8894.	3.7	95
97	Preparation of Catalytic Materials Using Ionic Liquids as the Media and Functional Components. Advanced Materials, 2014, 26, 6810-6827.	11.1	94
98	Switching the basicity of ionic liquids by CO2. Green Chemistry, 2008, 10, 1142.	4.6	93
99	Task-specific ionic liquid and CO₂-cocatalysed efficient hydration of propargylic alcohols to Î±-hydroxy ketones. Chemical Science, 2015, 6, 2297-2301.	3.7	93
100	Efficient and Mild Transfer Hydrogenolytic Cleavage of Aromatic Ether Bonds in Lignin-Derived Compounds over Ru/C. ACS Sustainable Chemistry and Engineering, 2018, 6, 2872-2877.	3.2	93
101	Doping palladium with tellurium for the highly selective electrocatalytic reduction of aqueous CO₂ to CO. Chemical Science, 2018, 9, 483-487.	3.7	93
102	Efficient hydrogenolysis of 5-hydroxymethylfurfural to 2,5-dimethylfuran over a cobalt and copper bimetallic catalyst on N-graphene-modified Al₂O₃. Green Chemistry, 2016, 18, 6222-6228.	4.6	92
103	Selective hydrogenation of 5-(hydroxymethyl)furfural to 5-methylfurfural over single atomic metals anchored on Nb2O5. Nature Communications, 2021, 12, 584.	5.8	92
104	Design of a Cu(<scp>i</scp>)/C-doped boron nitride electrocatalyst for efficient conversion of CO₂into acetic acid. Green Chemistry, 2017, 19, 2086-2091.	4.6	91
105	Aqueous CO₂ Reduction with High Efficiency Using Î±â€Co(OH)₂â€Supported Atomic Ir Electrocatalysts. Angewandte Chemie - International Edition, 2019, 58, 4669-4673.	7.2	90
106	Integration of mesopores and crystal defects in metal-organic frameworks via templated electrosynthesis. Nature Communications, 2019, 10, 4466.	5.8	90
107	Selectively transform lignin into value-added chemicals. Chinese Chemical Letters, 2019, 30, 15-24.	4.8	90
108	Highly Efficient CO₂ Electroreduction to Methanol through Atomically Dispersed Sn Coupled with Defective CuO Catalysts. Angewandte Chemie - International Edition, 2021, 60, 21979-21987.	7.2	90

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109	Pd nanoparticles immobilized on sepiolite by ionic liquids: efficient catalysts for hydrogenation of alkenes and Heck reactions. Green Chemistry, 2009, 11, 96-101.	4.6	89
110	Efficient electroreduction of CO₂to C₂₊products on CeO₂modified CuO. Chemical Science, 2021, 12, 6638-6645.	3.7	89
111	Catalytic self-transfer hydrogenolysis of lignin with endogenous hydrogen: road to the carbon-neutral future. Chemical Society Reviews, 2022, 51, 1608-1628.	18.7	89
112	Efficient synthesis of quinazoline-2,4(1H,3H)-diones from CO2 and 2-aminobenzonitriles in water without any catalyst. Green Chemistry, 2013, 15, 1485.	4.6	87
113	Boosting CO₂Electroreduction over a Cadmium Singleâ€Atom Catalyst by Tuning of the Axial Coordination Structure. Angewandte Chemie - International Edition, 2021, 60, 20803-20810.	7.2	86
114	Catalytic hydroxylation of benzene to phenol with hydrogen peroxide using catalysts based on molecular sieves. New Journal of Chemistry, 2013, 37, 1654.	1.4	85
115	Hollow Metalâ€"Organicâ€Frameworkâ€Mediated Inâ€...Situ Architecture of Copper Dendrites for Enhanced CO₂ Electroreduction. Angewandte Chemie - International Edition, 2020, 59, 8896-8901.	7.2	85
116	Ruâ€"Zn supported on hydroxyapatite as an effective catalyst for partial hydrogenation of benzene. Green Chemistry, 2013, 15, 152-159.	4.6	84
117	In situ dual doping for constructing efficient CO2-to-methanol electrocatalysts. Nature Communications, 2022, 13, 1965.	5.8	84
118	Microcalorimetry Study of Interaction between Ionic Surfactants and Hydrophobically Modified Polymers in Aqueous Solutions. Langmuir, 1997, 13, 3119-3123.	1.6	83
119	Conductivities and Viscosities of the Ionic Liquid [bmim][PF6] + Water + Ethanol and [bmim][PF6] + Water + Acetone Ternary Mixtures. Journal of Chemical & Engineering Data, 2003, 48, 1315-1317.	1.0	83
120	Highly Efficient Nanocatalysts Supported on Hollow Polymer Nanospheres:â€‰ Synthesis, Characterization, and Applications. Journal of Physical Chemistry C, 2008, 112, 774-780.	1.5	83
121	Novel microemulsions: ionic liquid-in-ionic liquid. Chemical Communications, 2007, , 2497.	2.2	82
122	Shape and Size Controlled Synthesis of MOF Nanocrystals with the Assistance of Ionic Liquid Mircoemulsions. Langmuir, 2013, 29, 13168-13174.	1.6	82
123	Fabrication and characterization of magnetic carbon nanotube composites. Journal of Materials Chemistry, 2005, 15, 4497.	6.7	81
124	Ionic Liquid-Assisted Immobilization of Rh on Attapulgite and Its Application in Cyclohexene Hydrogenation. Journal of Physical Chemistry C, 2007, 111, 2185-2190.	1.5	79
125	Highly efficient synthesis of cyclic carbonates from CO2 and epoxides catalyzed by KI/lecithin. Catalysis Today, 2012, 183, 130-135.	2.2	79
126	Electrosynthesis of a Defective Indium Selenide with 3Dâ€...Structure on a Substrate for Tunable CO₂ Electroreduction to Syngas. Angewandte Chemie - International Edition, 2020, 59, 2354-2359.	7.2	79

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127	High-internal-phase emulsions stabilized by metal-organic frameworks and derivation of ultralight metal-organic aerogels. Scientific Reports, 2016, 6, 21401.	1.6	78
128	The highly selective aerobic oxidation of cyclohexane to cyclohexanone and cyclohexanol over V₂O₅@TiO₂ under simulated solar light irradiation. Green Chemistry, 2017, 19, 311-318.	4.6	78
129	Solubility of Ls-36 and Ls-45 Surfactants in Supercritical CO2and Loading Water in the CO2/Water/Surfactant Systems. Langmuir, 2002, 18, 3086-3089.	1.6	76
130	Supercritical or Compressed CO₂ as a Stimulus for Tuning Surfactant Aggregations. Accounts of Chemical Research, 2013, 46, 425-433.	7.6	76
131	Zn-Nx sites on N-doped carbon for aerobic oxidative cleavage and esterification of C(CO)-C bonds. Nature Communications, 2021, 12, 4823.	5.8	76
132	Large-scale production of self-assembled SnO2 nanospheres and their application in high-performance chemiluminescence sensors for hydrogen sulfide gas. Journal of Materials Chemistry, 2007, 17, 1791.	6.7	75
133	Copper-catalyzed <i>N</i>-formylation of amines with CO₂ under ambient conditions. RSC Advances, 2016, 6, 32370-32373.	1.7	75
134	Synthesis of formamides containing unsaturated groups by N-formylation of amines using CO₂ with H₂. Green Chemistry, 2017, 19, 196-201.	4.6	75
135	Synthesis of mesoporous SrCO3 spheres and hollow CaCO3 spheres in room-temperature ionic liquid. Microporous and Mesoporous Materials, 2005, 83, 145-149.	2.2	74
136	Quantitative Electro-Reduction of CO₂ to Liquid Fuel over Electro-Synthesized Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 17384-17392.	6.6	73
137	Polypropylene/Silica Nanocomposites Prepared by in-Situ Solâˆ'Gel Reaction with the Aid of CO2. Macromolecules, 2005, 38, 5617-5624.	2.2	72
138	Highly selective hydrogenation of CO₂ into C₂₊ alcohols by homogeneous catalysis. Chemical Science, 2015, 6, 5685-5689.	3.7	72
139	Selective Utilization of the Methoxy Group in Lignin to Produce Acetic Acid. Angewandte Chemie - International Edition, 2017, 56, 14868-14872.	7.2	72
140	Ambient-Temperature Synthesis of Primary Amines via Reductive Amination of Carbonyl Compounds. ACS Catalysis, 2020, 10, 7763-7772.	5.5	72
141	One-step synthesis of ultrathin Î±-Co(OH)₂nanomeshes and their high electrocatalytic activity toward the oxygen evolution reaction. Chemical Communications, 2018, 54, 4045-4048.	2.2	71
142	Synthesis and characterization of TiO2â€“montmorillonite nanocomposites and their application for removal of methylene blue. Journal of Materials Chemistry, 2006, 16, 579-584.	6.7	70
143	Natural Product Glycine Betaine as an Efficient Catalyst for Transformation of CO₂ with Amines to Synthesize <i>N</i>-Substituted Compounds. ACS Sustainable Chemistry and Engineering, 2017, 5, 7086-7092.	3.2	70
144	Electroreduction of CO2 in Ionic Liquid-Based Electrolytes. Innovation(China), 2020, 1, 100016.	5.2	70

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145	Free radical reaction promoted by ionic liquid: a route for metal-free oxidation depolymerization of lignin model compound and lignin. Chemical Communications, 2015, 51, 4028-4031.	2.2	69
146	Synthesis of Supported Ultrafine Nonâ€noble Subnanometerâ€Scale Metal Particles Derived from Metalâ€"Organic Frameworks as Highly Efficient Heterogeneous Catalysts. Angewandte Chemie - International Edition, 2016, 55, 1080-1084.	7.2	69
147	Wacker oxidation of 1-hexene in 1-n-butyl-3-methylimidazolium hexafluorophosphate ([bmim][PF6]), supercritical (SC) CO2, and SC CO2/[bmim][PF6] mixed solvent. New Journal of Chemistry, 2002, 26, 1246-1248.	1.4	68
148	Porous Hafnium Phosphonate: Novel Heterogeneous Catalyst for Conversion of Levulinic Acid and Esters into Î³-Valerolactone. ACS Sustainable Chemistry and Engineering, 2016, 4, 6231-6236.	3.2	68
149	Efficient electroreduction of CO₂ to C2 products over B-doped oxide-derived copper. Green Chemistry, 2018, 20, 4579-4583.	4.6	68
150	Selective catalytic transformation of lignin with guaiacol as the only liquid product. Chemical Science, 2020, 11, 1347-1352.	3.7	68
151	Facile one-pot synthesis of VxOy@C catalysts using sucrose for the direct hydroxylation of benzene to phenol. Green Chemistry, 2013, 15, 1150.	4.6	67
152	Synthesizing Ag Nanoparticles of Small Size on a Hierarchical Porosity Support for the Carboxylative Cyclization of Propargyl Alcohols with CO₂ under Ambient Conditions. Chemistry - A European Journal, 2015, 21, 15924-15928.	1.7	66
153	Fabrication of 2D metalâ€"organic framework nanosheets with tailorable thickness using bio-based surfactants and their application in catalysis. Green Chemistry, 2019, 21, 54-58.	4.6	66
154	Highly efficient hydrogenation of levulinic acid into 2-methyltetrahydrofuran over Niâ€"Cu/Al₂O₃â€"ZrO₂bifunctional catalysts. Green Chemistry, 2019, 21, 606-613.	4.6	66
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