Zhaofu Zhang

List of Publications by Year
in descending order

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55 papers	4,865 citations	101543 36 h-index	144013 57 g-index
60 all docs	60 docs citations	60 times ranked	5029 citing authors

#	Article	IF	Citations
1	Efficient conversion of glucose into 5-hydroxymethylfurfural catalyzed by a common Lewis acid SnCl4 in an ionic liquid. Green Chemistry, 2009, 11, 1746.	9.0	442
2	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.	9.0	427
3	Conversion of fructose to 5-hydroxymethylfurfural using ionic liquids prepared from renewable materials. Green Chemistry, 2008, 10, 1280.	9.0	306
4	Hydrogenation of Carbon Dioxide is Promoted by a Taskâ€Specific Ionic Liquid. Angewandte Chemie - International Edition, 2008, 47, 1127-1129.	13.8	269
5	Absorption of CO2 by ionic liquid/polyethylene glycol mixture and the thermodynamic parameters. Green Chemistry, 2008, 10, 879.	9.0	242
6	Molybdenumâ€“Bismuth Bimetallic Chalcogenide Nanosheets for Highly Efficient Electrocatalytic Reduction of Carbon Dioxide to Methanol. Angewandte Chemie - International Edition, 2016, 55, 6771-6775.	13.8	225
7	Direct conversion of inulin to 5-hydroxymethylfurfural in biorenewable ionic liquids. Green Chemistry, 2009, 11, 873.	9.0	187
8	Synthesis of cyclic carbonates from epoxides and CO2 catalyzed by potassium halide in the presence of Î²-cyclodextrin. Green Chemistry, 2008, 10, 1337.	9.0	179
9	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.	9.0	149
10	Hydrogenation of CO₂ to Formic Acid Promoted by a Diamineâ€Functionalized Ionic Liquid. ChemSusChem, 2009, 2, 234-238.	6.8	137
11	Immobilization of Pdnanoparticles with functional ionic liquid grafted onto cross-linked polymer for solvent-free Heck reaction. Green Chemistry, 2010, 12, 65-69.	9.0	126
12	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.	9.0	118
13	One-pot conversion of CO2 and glycerol to value-added products using propylene oxide as the coupling agent. Green Chemistry, 2012, 14, 1743.	9.0	98
14	Switching the basicity of ionic liquids by CO2. Green Chemistry, 2008, 10, 1142.	9.0	93
15	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.	9.0	91
16	Efficient synthesis of quinazoline-2,4(1H,3H)-diones from CO2 and 2-aminobenzonitriles in water without any catalyst. Green Chemistry, 2013, 15, 1485.	9.0	87
17	Ruâ€“Zn supported on hydroxyapatite as an effective catalyst for partial hydrogenation of benzene. Green Chemistry, 2013, 15, 152-159.	9.0	84
18	Ionic Liquid-Assisted Immobilization of Rh on Attapulgite and Its Application in Cyclohexene Hydrogenation. Journal of Physical Chemistry C, 2007, 111, 2185-2190.	3.1	79

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19	Highly selective hydrogenation of CO₂ into C₂₊ alcohols by homogeneous catalysis. Chemical Science, 2015, 6, 5685-5689.	7.4	72
20	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.	13.8	69
21	A green and effective method to synthesize ionic liquids: supercritical CO2 route. Green Chemistry, 2005, 7, 701.	9.0	64
22	Effect of CO2 on conversion of inulin to 5-hydroxymethylfurfural and propylene oxide to 1,2-propanediol in water. Green Chemistry, 2010, 12, 1215.	9.0	60
23	Tri-phase behavior of ionic liquidâ€“waterâ€“CO2system at elevated pressures. Physical Chemistry Chemical Physics, 2004, 6, 5051-5055.	2.8	55
24	Molybdenumâ€“Bismuth Bimetallic Chalcogenide Nanosheets for Highly Efficient Electrocatalytic Reduction of Carbon Dioxide to Methanol. Angewandte Chemie, 2016, 128, 6883-6887.	2.0	55
25	A route to convert CO₂: synthesis of 3,4,5-trisubstituted oxazolones. Green Chemistry, 2015, 17, 1219-1225.	9.0	54
26	Bromide promoted hydrogenation of CO₂ to higher alcohols using Ruâ€“Co homogeneous catalyst. Chemical Science, 2016, 7, 5200-5205.	7.4	54
27	A study of tri-phasic behavior of ionic liquidâ€“methanolâ€“CO2systems at elevated pressures. Physical Chemistry Chemical Physics, 2004, 6, 2352-2357.	2.8	49
28	Aerobic oxidation of benzyl alcohol in supercritical CO2 catalyzed by perruthenate immobilized on polymer supported ionic liquid. Green Chemistry, 2008, 10, 278.	9.0	46
29	Highly efficient hydrogenation of carbon dioxide to methyl formate over supported gold catalysts. Green Chemistry, 2015, 17, 1467-1472.	9.0	43
30	Synthesis of Asymmetrical Organic Carbonates using CO₂ as a Feedstock in AgCl/Ionic Liquid System at Ambient Conditions. ChemSusChem, 2017, 10, 1292-1297.	6.8	42
31	Phase Separation of the Reaction System Induced by CO2and Conversion Enhancement for the Esterification of Acetic Acid with Ethanol in Ionic Liquid. Journal of Physical Chemistry B, 2005, 109, 16176-16179.	2.6	41
32	Highly efficient Meerweinâ€“Ponndorfâ€“Verley reductions over a robust zirconium-organoboronic acid hybrid. Green Chemistry, 2021, 23, 1259-1265.	9.0	41
33	Efficient Hydrogenation of CO₂ to Methanol over Supported Subnanometer Gold Catalysts at Low Temperature. ChemCatChem, 2017, 9, 3691-3696.	3.7	40
34	Choline hydroxide promoted chemical fixation of CO₂to quinazoline-2,4(1H,3H)-diones in water. RSC Advances, 2014, 4, 50993-50997.	3.6	34
35	Driving dimethyl carbonate synthesis from CO₂ and methanol and production of acetylene simultaneously using CaC₂. Chemical Communications, 2018, 54, 4410-4412.	4.1	29
36	Effective synthesis of cyclic carbonates from CO2 and epoxides catalyzed by KI/cucurbit[6]uril. Pure and Applied Chemistry, 2013, 85, 1633-1641.	1.9	28

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37	A strategy to overcome the thermodynamic limitation in CO₂ conversion using ionic liquids and urea. Green Chemistry, 2015, 17, 1633-1639.	9.0	25
38	Support Effect of Ru Catalysts for Efficient Conversion of Biomass-Derived 2,5-Hexanedione to Different Products. ACS Catalysis, 2021, 11, 7685-7693.	11.2	22
39	Water as an additive to enhance the ring opening of naphthalene. Green Chemistry, 2012, 14, 1152.	9.0	21
40	Continuous-flow formic acid production from the hydrogenation of CO₂ without any base. Green Chemistry, 2021, 23, 1978-1982.	9.0	17
41	Synthesis of higher alcohols from CO ₂ hydrogenation over a PtRu/Fe ₂ O ₃ catalyst under supercritical condition. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20150006.	3.4	15
42	Synthesis of Supported Ultrafine Nonâ€noble Subnanometerâ€Scale Metal Particles Derived from Metalâ€“Organic Frameworks as Highly Efficient Heterogeneous Catalysts. Angewandte Chemie, 2016, 128, 1092-1096.	2.0	15
43	Microwave assisted synthesis of glycerol carbonate from glycerol and urea. Pure and Applied Chemistry, 2018, 90, 1-6.	1.9	14
44	Hydrogenation of methyl laurate to produce lauryl alcohol over Cu/ZnO/Al2O3 with methanol as the solvent and hydrogen source. Pure and Applied Chemistry, 2011, 84, 779-788.	1.9	13
45	Quasi-square-shaped cadmium hydroxide nanocatalysts for electrochemical CO₂ reduction with high efficiency. Chemical Science, 2021, 12, 11914-11920.	7.4	10
46	Production of Piperidine and Î´â€Lactam Chemicals from Biomassâ€Derived Triacetic Acid Lactone. Angewandte Chemie - International Edition, 2021, 60, 14405-14409.	13.8	10
47	Poly(ethylene glycol) based bis-diol as a functional medium for highly efficient conversion of urea and methanol to dimethyl carbonate. Green Chemistry, 2016, 18, 798-801.	9.0	9
48	Elimination of the negative effect of nitrogen compounds by CO2â€“water in the hydrocracking of anthracene. Green Chemistry, 2012, 14, 1854.	9.0	8
49	Phase Behavior, Densities, and Isothermal Compressibility of the CO2+ Ethanol + Dichloromethane Ternary System in Different Phase Regions. Journal of Chemical & Engineering Data, 2005, 50, 1153-1156.	1.9	7
50	Fabrication of Superamphiphilic Carbon Using Lignosulfonate for Enhancing Selective Hydrogenation Reactions in Pickering Emulsions. ACS Applied Materials & Interfaces, 2021, 13, 25234-25240.	8.0	6
51	Synthesis of unsymmetrical organic carbonates catalyzed by a sulfonic acid-functionalized zirconium phosphonate. Pure and Applied Chemistry, 2011, 84, 675-684.	1.9	5
52	Synthesis of Bis(trimethylsilyl)acetylene (BTMSA) by Direct Reaction of CaC 2 with N â€(trimethylsilyl)imidazole. ChemistrySelect, 2020, 5, 3644-3646.	1.5	4
53	Superamphiphilic carbon from sawdust activated by oxygen/argon mixtures promoting the oxidation of benzyl alcohol in Pickering emulsion. Green Chemistry, 2021, 23, 6341-6348.	9.0	2
54	A depth-suitable and water-stable trap for CO2 capture. RSC Advances, 2021, 11, 15748-15752.	3.6	0

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55	Production of Piperidine and Î´â€Lactam Chemicals from Biomassâ€Derived Triacetic Acid Lactone. Angewandte Chemie, 2021, 133, 14526-14530.	2.0	0