Jinzhu Chen

List of Publications by Year
in descending order

50 papers	2,742 citations	147726 31 h-index	189801 50 g-index
50 all docs	50 docs citations	50 times ranked	3695 citing authors

#	Article	IF	Citations
1	Conversion of fructose into 5-hydroxymethylfurfural catalyzed by recyclable sulfonic acid-functionalized metalâ€“organic frameworks. Green Chemistry, 2014, 16, 2490-2499.	4.6	267
2	Hydrodeoxygenation of Lignin-Derived Phenolic Monomers and Dimers to Alkane Fuels over Bifunctional Zeolite-Supported Metal Catalysts. ACS Sustainable Chemistry and Engineering, 2014, 2, 683-691.	3.2	204
3	Conversion of fructose into 5-hydroxymethylfurfural and alkyl levulinates catalyzed by sulfonic acid-functionalized carbon materials. Green Chemistry, 2013, 15, 2895.	4.6	188
4	Selective Hydrogenation of Biomass-Based 5-Hydroxymethylfurfural over Catalyst of Palladium Immobilized on Amine-Functionalized Metalâ€“Organic Frameworks. ACS Catalysis, 2015, 5, 722-733.	5.5	165
5	Selective Transfer Hydrogenation of Biomass-Based Furfural and 5-Hydroxymethylfurfural over Hydrotalcite-Derived Copper Catalysts Using Methanol as a Hydrogen Donor. ACS Sustainable Chemistry and Engineering, 2017, 5, 5982-5993.	3.2	158
6	Metalloporphyrin-based organic polymers for carbon dioxide fixation to cyclic carbonate. Journal of Materials Chemistry A, 2015, 3, 9807-9816.	5.2	110
7	Conversion of Cellulose and Cellobiose into Sorbitol Catalyzed by Ruthenium Supported on a Polyoxometalate/Metalâ€“Organic Framework Hybrid. ChemSusChem, 2013, 6, 1545-1555.	3.6	107
8	Selective hydrogenation of phenol and related derivatives. Catalysis Science and Technology, 2014, 4, 3555-3569.	2.1	95
9	Applications of lignin-derived catalysts for green synthesis. Green Energy and Environment, 2019, 4, 210-244.	4.7	91
10	N-Formylation of Amines with CO₂ and H₂ Using Pdâ€“Au Bimetallic Catalysts Supported on Polyaniline-Functionalized Carbon Nanotubes. ACS Sustainable Chemistry and Engineering, 2017, 5, 2516-2528.	3.2	77
11	Carbon Nanotube-Based Solid Sulfonic Acids as Catalysts for Production of Fatty Acid Methyl Ester via Transesterification and Esterification. ACS Sustainable Chemistry and Engineering, 2016, 4, 3140-3150.	3.2	76
12	Amine-functionalized metal-organic frameworks for the transesterification of triglycerides. Journal of Materials Chemistry A, 2014, 2, 7205-7213.	5.2	68
13	Efficient production of 5-hydroxymethylfurfural and alkyl levulinate from biomass carbohydrate using ionic liquid-based polyoxometalate salts. RSC Advances, 2014, 4, 4194-4202.	1.7	63
14	Photo-induced reduction of biomass-derived 5-hydroxymethylfurfural using graphitic carbon nitride supported metal catalysts. RSC Advances, 2016, 6, 101968-101973.	1.7	56
15	Ruthenium complex immobilized on poly(4-vinylpyridine)-functionalized carbon-nanotube for selective aerobic oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. RSC Advances, 2015, 5, 5933-5940.	1.7	55
16	Hydrodeoxygenation of biodiesel-related fatty acid methyl esters to diesel-range alkanes over zeolite-supported ruthenium catalysts. Catalysis Science and Technology, 2016, 6, 7239-7251.	2.1	53
17	Metal-Free H₂ Activation for Highly Selective Hydrogenation of Nitroaromatics Using Phosphorus-Doped Carbon Nanotubes. ACS Applied Materials & Interfaces, 2020, 12, 654-666.	4.0	53
18	Preparation and Photocatalytic Performance of Anatase/Rutile Mixed-Phase TiO2 Nanotubes. Catalysis Letters, 2010, 139, 129-133.	1.4	50

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19	Selective Hydrogenation of Phenol and Derivatives over Polymerâ€Functionalized Carbonâ€Nanofiberâ€Supported Palladium Using Sodium Formate as the Hydrogen Source. ChemPlusChem, 2013, 78, 1370-1378.	1.3	42
20	Chemical Fixation of CO₂ by Using Carbon Material-Grafted N-Heterocyclic Carbene Silver and Copper Complexes. ACS Applied Nano Materials, 2018, 1, 6463-6476.	2.4	42
21	Polymeric Ruthenium Porphyrin-Functionalized Carbon Nanotubes and Graphene for Levulinic Ester Transformations into Î³-Valerolactone and Pyrrolidone Derivatives. ACS Omega, 2017, 2, 3228-3240.	1.6	41
22	Bifunctional catalyst of a metallophthalocyanine-carbon nitride hybrid for chemical fixation of CO₂ to cyclic carbonate. RSC Advances, 2016, 6, 2810-2818.	1.7	40
23	Efficient and selective approach to biomass-based amine by reductive amination of furfural using Ru catalyst. Applied Catalysis B: Environmental, 2022, 309, 121262.	10.8	39
24	Metal-Free N-Formylation of Amines with CO₂ and Hydrosilane by Nitrogen-Doped Graphene Nanosheets. ACS Applied Materials & Interfaces, 2019, 11, 38838-38848.	4.0	38
25	Electrochemical hydrogenation of biomass-based furfural in aqueous media by Cu catalyst supported on N-doped hierarchically porous carbon. Applied Catalysis B: Environmental, 2022, 305, 121062.	10.8	38
26	Kinetic Aspects for the Reduction of CO₂ and CS₂ with Mixed-Ligand Ruthenium(II) Hydride Complexes Containing Phosphine and Bipyridine. Inorganic Chemistry, 2014, 53, 9570-9580.	1.9	36
27	Visible-Light-Induced Catalytic Transfer Hydrogenation of Aromatic Aldehydes by Palladium Immobilized on Amine-Functionalized Iron-Based Metalâ€“Organic Frameworks. ACS Applied Nano Materials, 2018, 1, 4247-4257.	2.4	36
28	Bicomponent Assembly of VO₂ and Polyanilineâ€Functionalized Carbon Nanotubes for the Selective Oxidation of Biomassâ€Based 5â€Hydroxymethylfurfural to 2,5â€Diformylfuran. ChemPlusChem, 2015, 80, 1760-1768.	1.3	34
29	Synthesis of new unsymmetric N,Nâ€²-dipyridylurea derivatives by selenium and selenium dioxide-catalyzed reductive carbonylation of substituted nitropyridines. Tetrahedron, 2003, 59, 8251-8256.	1.0	33
30	Preparation and photoelectrochemical characterization of WO3/TiO2 nanotube array electrode. Journal of Materials Science, 2011, 46, 416-421.	1.7	33
31	Selective hydrogenation of phenol and derivatives over an ionic liquid-like copolymer stabilized palladium catalyst in aqueous media. RSC Advances, 2013, 3, 4171.	1.7	33
32	Hydrogenation of Levulinic Acid into Î³-Valerolactone Over Ruthenium Catalysts Supported on Metalâ€“Organic Frameworks in Aqueous Medium. Catalysis Letters, 2016, 146, 2041-2052.	1.4	32
33	Sulfonate-Grafted Metalâ€“Organic Frameworks for Reductive Functionalization of CO₂ to Benzimidazoles and N-Formamides. ACS Catalysis, 2021, 11, 13983-13999.	5.5	26
34	Selective Conversion of Cellulose into Ethylene Glycol over Metalâ€“Organic Framework-Derived Multifunctional Catalysts. Catalysis Letters, 2014, 144, 1728-1734.	1.4	24
35	Visible-light-induced hydrogenation of biomass-based aldehydes by graphitic carbon nitride supported metal catalysts. Green Energy and Environment, 2021, 6, 715-724.	4.7	24
36	Direct hydroxylation of benzene to phenol with molecular oxygen over vanadium oxide nanospheres and study of its mechanism. RSC Advances, 2015, 5, 94164-94170.	1.7	23

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37	A computational study on the hydrogenation of CO2 catalyzed by a tetraphos-ligated cobalt complex: monohydride vs. dihydride. Catalysis Science and Technology, 2015, 5, 1006-1013.	2.1	23
38	Chemical Fixation of CO₂ Using Highly Dispersed Cu on Hierarchically Porous N-Doped Carbon. ACS Applied Materials & Interfaces, 2020, 12, 40236-40247.	4.0	23
39	H₂ Activation with Co Nanoparticles Encapsulated in Nâ€Doped Carbon Nanotubes for Green Synthesis of Benzimidazoles. ChemSusChem, 2021, 14, 709-720.	3.6	23
40	Titanate nanotube-promoted chemical fixation of carbon dioxide to cyclic carbonate: a combined experimental and computational study. Catalysis Science and Technology, 2016, 6, 780-790.	2.1	20
41	Transformations of biomass-based levulinate ester into Î³-valerolactone and pyrrolidones using carbon nanotubes-grafted N-heterocyclic carbene ruthenium complexes. Journal of Energy Chemistry, 2019, 39, 29-38.	7.1	15
42	Synthesis, characterization and computational study of heterobimetallic CoFe complexes for mimicking hydrogenase. RSC Advances, 2013, 3, 3557.	1.7	14
43	Copper(I)â€Catalyzed Fourâ€Component Coupling Using Renewable Building Blocks of CO₂ and Biomassâ€Based Aldehydes. European Journal of Organic Chemistry, 2018, 2018, 3105-3113.	1.2	14
44	Hydrogenation of biomass-derived levulinic acid to Î³-valerolactone catalyzed by PNP-Ir pincer complexes: A computational study. Journal of Organometallic Chemistry, 2015, 797, 165-170.	0.8	13
45	An efficient approach to biomass-based tertiary amines by direct and consecutive reductive amination of furfural. Journal of Catalysis, 2022, 410, 164-179.	3.1	11
46	Highly recyclable and magnetic catalyst of a metalloporphyrin-based polymeric composite for cycloaddition of CO₂to epoxide. RSC Advances, 2016, 6, 96455-96466.	1.7	10
47	Hierarchically Nanoporous Titanium-Based Coordination Polymers for Photocatalytic Synthesis of Benzimidazole. ACS Applied Nano Materials, 2020, 3, 10720-10731.	2.4	8
48	CO Activation Using Nitrogen-Doped Carbon Nanotubes for Reductive Carbonylation of Nitroaromatics to Benzimidazolinone and Phenyl Urea. ACS Applied Materials & Interfaces, 2020, 12, 48700-48711.	4.0	7
49	Cu Catalyst Supported on Nitrogen and Phosphorus Co-Doped Carbon Nanosheets for Homocoupling of Terminal Alkynes Using CO₂ as a Soft Oxidant. ACS Applied Nano Materials, 2021, 4, 4839-4852.	2.4	6
50	Hydrogenative coupling of nitriles with diamines to benzimidazoles using lignin-derived Rh2P catalyst. IScience, 2021, 24, 103045.	1.9	5