Jiaguang Zhang

List of Publications by Citations

35	3,147	27	38
papers	citations	h-index	g-index
38	3,739	11.3	5.75
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
35	Ni-based bimetallic heterogeneous catalysts for energy and environmental applications. *Energy and Environmental Science*, **2016**, 9, 3314-3347	35.4	413
34	Thermally stable single atom Pt/m-AlO for selective hydrogenation and CO oxidation. *Nature Communications*, **2017**, 8, 16100	17.4	390
33	A Series of NiM (M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water. *ACS Catalysis*, **2014**, 4, 1574-1583	13.1	351
32	Stabilizing a Platinum1 Single-Atom Catalyst on Supported Phosphomolybdic Acid without Compromising Hydrogenation Activity. *Angewandte Chemie - International Edition*, **2016**, 55, 8319-23	16.4	294
31	Highly efficient, NiAu-catalyzed hydrogenolysis of lignin into phenolic chemicals. *Green Chemistry*, **2014**, 16, 2432-2437	10	201
30	Downstream processing of lignin derived feedstock into end products. *Chemical Society Reviews*, **2020**, 49, 5510-5560	58.5	117
29	Transformation of Chitin and Waste Shrimp Shells into Acetic Acid and Pyrrole. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 3912-3920	8.3	117
28	Base promoted hydrogenolysis of lignin model compounds and organosolv lignin over metal catalysts in water. *Chemical Engineering Science*, **2015**, 123, 155-163	4.4	115
27	Production of Terephthalic Acid from Corn Stover Lignin. *Angewandte Chemie - International Edition* , **2019**, 58, 4934-4937	16.4	95
26	Thermoresponsive polymers based on poly-vinylpyrrolidone: applications in nanoparticle catalysis. *Chemical Communications*, **2010**, 46, 1631-3	5.8	88
25	Acid-Catalyzed Chitin Liquefaction in Ethylene Glycol. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2081-2089	8.3	76
24	Conversion of chitin derived N-acetyl-D-glucosamine (NAG) into polyols over transition metal catalysts and hydrogen in water. *Green Chemistry*, **2015**, 17, 1024-1031	10	72
23	Chitin-Derived Mesoporous, Nitrogen-Containing Carbon for Heavy-Metal Removal and Styrene Epoxidation. *ChemPlusChem*, **2015**, 80, 1556-1564	2.8	68
22	Harnessing the Wisdom in Colloidal Chemistry to Make Stable Single-Atom Catalysts. *Advanced Materials*, **2018**, 30, e1802304	24	62
21	Single-step conversion of lignin monomers to phenol: Bridging the gap between lignin and high-value chemicals. *Chinese Journal of Catalysis*, **2018**, 39, 1445-1452	11.3	60
20	Stabilizing a Platinum1 Single-Atom Catalyst on Supported Phosphomolybdic Acid without Compromising Hydrogenation Activity. *Angewandte Chemie*, **2016**, 128, 8459-8463	3.6	59
19	Formic acid-mediated liquefaction of chitin. *Green Chemistry*, **2016**, 18, 5050-5058	10	58

18	A Metal-Free, Carbon-Based Catalytic System for the Oxidation of Lignin Model Compounds and Lignin. *ChemPlusChem*, **2014**, 79, 825-834	2.8	52
17	Production of Glucosamine from Chitin by Co-solvent Promoted Hydrolysis and Deacetylation. *ChemCatChem*, **2017**, 9, 2790-2796	5.2	51
16	Popping of graphite oxide: application in preparing metal nanoparticle catalysts. *Advanced Materials*, **2015**, 27, 4688-94	24	43
15	Direct Conversion of Mono- and Polysaccharides into 5-Hydroxymethylfurfural Using Ionic-Liquid Mixtures. *ChemSusChem*, **2016**, 9, 2089-96	8.3	43
14	Catalytic transfer hydrogenolysis as an efficient route in cleavage of lignin and model compounds. *Green Energy and Environment*, **2018**, 3, 328-334	5.7	41
13	Efficient cleavage of aryl ether C-O linkages by Rh-Ni and Ru-Ni nanoscale catalysts operating in water. *Chemical Science*, **2018**, 9, 5530-5535	9.4	41
12	Production of Terephthalic Acid from Corn Stover Lignin. *Angewandte Chemie*, **2019**, 131, 4988-4991	3.6	40
11	Ligands Modulate Reaction Pathway in the Hydrogenation of 4-Nitrophenol Catalyzed by Gold Nanoclusters. *ChemCatChem*, **2018**, 10, 395-402	5.2	38
10	Rh nanoparticles with NiOx surface decoration for selective hydrogenolysis of CO bond over arene hydrogenation. *Journal of Molecular Catalysis A*, **2016**, 422, 188-197		34
9	Thermally responsive gold nanocatalysts based on a modified poly-vinylpyrrolidone. *Journal of Molecular Catalysis A*, **2013**, 371, 29-35		29
8	Aqueous-phase hydrogenation of alkenes and arenes: The growing role of nanoscale catalysts. *Catalysis Today*, **2015**, 247, 96-103	5.3	27
7	Rapid nanoparticle-catalyzed hydrogenations in triphasic millireactors with facile catalyst recovery. *Green Chemistry*, **2014**, 16, 4654-4658	10	20
6	Photocatalytic carboxylation of CH bonds promoted by popped graphene oxide (PGO) either bare or loaded with CuO. *Journal of CO2 Utilization*, **2017**, 20, 97-104	7.6	17
5	Support effects in the de-methoxylation of lignin monomer 4-propylguaiacol over molybdenum-based catalysts. *Fuel Processing Technology*, **2020**, 199, 106224	7.2	13
4	NiAg Catalysts for Selective Hydrogenolysis of the Lignin C‐O Bond. *Particle and Particle Systems Characterization*, **2016**, 33, 610-619	3.1	13
3	Transformation of sodium bicarbonate and CO2 into sodium formate over NiPd nanoparticle catalyst. *Frontiers in Chemistry*, **2013**, 1, 17	5	6
2	Formic acid‐aided biomass valorization. *Current Opinion in Green and Sustainable Chemistry*, **2020**, 24, 67-71	7.9	2
1	Tailoring Biomass Conversions using Ionic Liquid Immobilized Metal Nanoparticles **2016**, 233-247		