Leilei Zhang

List of Publications by Citations

26 papers	3,830 citations	21 h-index	30 g-index
30 ext. papers	4,937 ext. citations	13.4 avg, IF	5.71 L-index

#	Paper	IF	Citations
26	FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. *Nature Communications*, **2014**, 5, 5634	17.4	708
25	Discriminating Catalytically Active FeN Species of Atomically Dispersed Fe-N-C Catalyst for Selective Oxidation of the C-H Bond. *Journal of the American Chemical Society*, **2017**, 139, 10790-10798	16.4	499
24	Single-atom dispersed Co-N-C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. *Chemical Science*, **2016**, 7, 5758-5764	9.4	455
23	Selective Hydrogenation over Supported Metal Catalysts: From Nanoparticles to Single Atoms. *Chemical Reviews*, **2020**, 120, 683-733	68.1	419
22	Performance of Cu-Alloyed Pd Single-Atom Catalyst for Semihydrogenation of Acetylene under Simulated Front-End Conditions. *ACS Catalysis*, **2017**, 7, 1491-1500	13.1	245
21	Co□N□ Catalyst for C□ Coupling Reactions: On the Catalytic Performance and Active Sites. *ACS Catalysis*, **2015**, 5, 6563-6572	13.1	205
20	Efficient and Durable Au Alloyed Pd Single-Atom Catalyst for the Ullmann Reaction of Aryl Chlorides in Water. *ACS Catalysis*, **2014**, 4, 1546-1553	13.1	184
19	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. *Angewandte Chemie - International Edition*, **2018**, 57, 7071-7075	16.4	163
18	Unraveling the coordination structure-performance relationship in Pt/FeO single-atom catalyst. *Nature Communications*, **2019**, 10, 4500	17.4	137
17	Single-atom catalyst: a rising star for green synthesis of fine chemicals. *National Science Review*, **2018**, 5, 653-672	10.8	134
16	Hydrogenolysis of Glycerol to 1,3-propanediol under Low Hydrogen Pressure over WOx -Supported Single/Pseudo-Single Atom Pt Catalyst. *ChemSusChem*, **2016**, 9, 784-90	8.3	105
15	ZnAl-Hydrotalcite-Supported Au Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. *Angewandte Chemie - International Edition*, **2017**, 56, 2709-2713	16.4	97
14	Aerobic oxidative coupling of alcohols and amines over Au□Pd/resin in water: Au/Pd molar ratios switch the reaction pathways to amides or imines. *Green Chemistry*, **2013**, 15, 2680	10	96
13	Remarkable effect of alkalis on the chemoselective hydrogenation of functionalized nitroarenes over high-loading Pt/FeO catalysts. *Chemical Science*, **2017**, 8, 5126-5131	9.4	65
12	Oxidative strong metal-support interactions (OMSI) of supported platinum-group metal catalysts. *Chemical Science*, **2018**, 9, 6679-6684	9.4	49
11	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N as an Active Site for the Oxygen Reduction Reaction. *Journal of the American Chemical Society*, **2021**, 143, 14530-14539	16.4	49
10	Oxygen surface groups of activated carbon steer the chemoselective hydrogenation of substituted nitroarenes over nickel nanoparticles. *Chemical Communications*, **2017**, 53, 1969-1972	5.8	45

List of Publications

9	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. *Angewandte Chemie*, **2018**, 130, 7189-7193	3.6	37
8	Cleavage of lignin C□O bonds over a heterogeneous rhenium catalyst through hydrogen transfer reactions. *Green Chemistry*, **2019**, 21, 5556-5564	10	36
7	Highly selective and robust single-atom catalyst Ru/NC for reductive amination of aldehydes/ketones. *Nature Communications*, **2021**, 12, 3295	17.4	32
6	ZnAl-Hydrotalcite-Supported Au25 Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. *Angewandte Chemie*, **2017**, 129, 2753-2757	3.6	30
5	Tuning the coordination environment of single-atom catalyst M-N-C towards selective hydrogenation of functionalized nitroarenes. *Nano Research*,1	10	15
4	Modulating trans-imination and hydrogenation towards the highly selective production of primary diamines from dialdehydes. *Green Chemistry*, **2020**, 22, 6897-6901	10	7
3	Reaction kinetics and phase behavior in the chemoselective hydrogenation of 3-nitrostyrene over Co-N-C single-atom catalyst in compressed CO2. *Chinese Journal of Catalysis*, **2021**, 42, 1617-1624	11.3	2
2	Highly efficient Co single-atom catalyst for epoxidation of plant oils. *Journal of Chemical Physics*, **2021**, 154, 131103	3.9	1
1	Synergy between Ru and WOx Enables Efficient Hydrodeoxygenation of Primary Amides to Amines. *ACS Catalysis*,6302-6312	13.1	1