

Leilei Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Highly efficient Co single-atom catalyst for epoxidation of plant oils. <i>Journal of Chemical Physics</i> , 2021 , 154, 131103	3.9	1
25	Highly selective and robust single-atom catalyst Ru/NC for reductive amination of aldehydes/ketones. <i>Nature Communications</i> , 2021 , 12, 3295	17.4	32
24	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N as an Active Site for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14530-14539	16.4	49
23	Reaction kinetics and phase behavior in the chemoselective hydrogenation of 3-nitrostyrene over Co-N-C single-atom catalyst in compressed CO ₂ . <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1617-1624	11.3	2
22	Modulating trans-amination and hydrogenation towards the highly selective production of primary diamines from dialdehydes. <i>Green Chemistry</i> , 2020 , 22, 6897-6901	10	7
21	Selective Hydrogenation over Supported Metal Catalysts: From Nanoparticles to Single Atoms. <i>Chemical Reviews</i> , 2020 , 120, 683-733	68.1	419
20	Unraveling the coordination structure-performance relationship in Pt/FeO single-atom catalyst. <i>Nature Communications</i> , 2019 , 10, 4500	17.4	137
19	Cleavage of lignin C-O bonds over a heterogeneous rhenium catalyst through hydrogen transfer reactions. <i>Green Chemistry</i> , 2019 , 21, 5556-5564	10	36
18	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7071-7075	16.4	163
17	A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. <i>Angewandte Chemie</i> , 2018 , 130, 7189-7193	3.6	37
16	Single-atom catalyst: a rising star for green synthesis of fine chemicals. <i>National Science Review</i> , 2018 , 5, 653-672	10.8	134
15	Oxidative strong metal-support interactions (OMSI) of supported platinum-group metal catalysts. <i>Chemical Science</i> , 2018 , 9, 6679-6684	9.4	49
14	Oxygen surface groups of activated carbon steer the chemoselective hydrogenation of substituted nitroarenes over nickel nanoparticles. <i>Chemical Communications</i> , 2017 , 53, 1969-1972	5.8	45
13	Performance of Cu-Alloyed Pd Single-Atom Catalyst for Semihydrogenation of Acetylene under Simulated Front-End Conditions. <i>ACS Catalysis</i> , 2017 , 7, 1491-1500	13.1	245
12	ZnAl-Hydrotalcite-Supported Au Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2709-2713	16.4	97
11	ZnAl-Hydrotalcite-Supported Au ₂₅ Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie</i> , 2017 , 129, 2753-2757	3.6	30
10	Remarkable effect of alkalis on the chemoselective hydrogenation of functionalized nitroarenes over high-loading Pt/FeO catalysts. <i>Chemical Science</i> , 2017 , 8, 5126-5131	9.4	65

9	Discriminating Catalytically Active FeN Species of Atomically Dispersed Fe-N-C Catalyst for Selective Oxidation of the C-H Bond. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10790-10798	16.4	499
8	Single-atom dispersed Co-N-C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. <i>Chemical Science</i> , 2016 , 7, 5758-5764	9.4	455
7	Hydrogenolysis of Glycerol to 1,3-propanediol under Low Hydrogen Pressure over WO _x -Supported Single/Pseudo-Single Atom Pt Catalyst. <i>ChemSusChem</i> , 2016 , 9, 784-90	8.3	105
6	Co ₁ N ₁ C Catalyst for C ₁ C ₁ Coupling Reactions: On the Catalytic Performance and Active Sites. <i>ACS Catalysis</i> , 2015 , 5, 6563-6572	13.1	205
5	Efficient and Durable Au Alloyed Pd Single-Atom Catalyst for the Ullmann Reaction of Aryl Chlorides in Water. <i>ACS Catalysis</i> , 2014 , 4, 1546-1553	13.1	184
4	FeO _x -supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. <i>Nature Communications</i> , 2014 , 5, 5634	17.4	708
3	Aerobic oxidative coupling of alcohols and amines over Au ₁ Pd ₁ /resin in water: Au/Pd molar ratios switch the reaction pathways to amides or imines. <i>Green Chemistry</i> , 2013 , 15, 2680	10	96
2	Tuning the coordination environment of single-atom catalyst M-N-C towards selective hydrogenation of functionalized nitroarenes. <i>Nano Research</i> , 1	10	15
1	Synergy between Ru and WO _x Enables Efficient Hydrodeoxygenation of Primary Amides to Amines. <i>ACS Catalysis</i> , 6302-6312	13.1	1