

Leilei Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

6,182
citations

257101

24
h-index

500791

28
g-index

30
all docs

30
docs citations

30
times ranked

6514
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. <i>Nature Communications</i> , 2014, 5, 5634. | 5.8 | 890 |
| 2 | Selective Hydrogenation over Supported Metal Catalysts: From Nanoparticles to Single Atoms. <i>Chemical Reviews</i> , 2020, 120, 683-733. | 23.0 | 871 |
| 3 | Discriminating Catalytically Active FeN _x 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. | 6.6 | 738 |
| 4 | Single-atom dispersed Co-N-C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. <i>Chemical Science</i> , 2016, 7, 5758-5764. | 3.7 | 571 |
| 5 | 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. | 5.5 | 374 |
| 6 | Unraveling the coordination structure-performance relationship in Pt ₁ /Fe ₂ O ₃ single-atom catalyst. <i>Nature Communications</i> , 2019, 10, 4500. | 5.8 | 279 |
| 7 | Co-N-C Catalyst for C-C Coupling Reactions: On the Catalytic Performance and Active Sites. <i>ACS Catalysis</i> , 2015, 5, 6563-6572. | 5.5 | 260 |
| 8 | Single-atom catalyst: a rising star for green synthesis of fine chemicals. <i>National Science Review</i> , 2018, 5, 653-672. | 4.6 | 258 |
| 9 | 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. | 7.2 | 243 |
| 10 | 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. | 5.5 | 221 |
| 11 | Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N ₃ as an Active Site for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 14530-14539. | 6.6 | 218 |
| 12 | Potential-Driven Restructuring of Cu Single Atoms to Nanoparticles for Boosting the Electrochemical Reduction of Nitrate to Ammonia. <i>Journal of the American Chemical Society</i> , 2022, 144, 12062-12071. | 6.6 | 192 |
| 13 | Highly selective and robust single-atom catalyst Ru ₁ /NC for reductive amination of aldehydes/ketones. <i>Nature Communications</i> , 2021, 12, 3295. | 5.8 | 152 |
| 14 | Hydrogenolysis of Glycerol to 1,3-Propanediol under Low Hydrogen Pressure over WO ₃ -Supported Single/Pseudo-Single Atom Pt Catalyst. <i>ChemSusChem</i> , 2016, 9, 784-790. | 3.6 | 140 |
| 15 | ZnAl-Hydrotalcite-Supported Au ₂₅ Nanoclusters as Precatalysts for Chemoselective Hydrogenation of Nitrostyrene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2709-2713. | 7.2 | 127 |
| 16 | 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. <i>Green Chemistry</i> , 2013, 15, 2680. | 4.6 | 114 |
| 17 | Remarkable effect of alkalis on the chemoselective hydrogenation of functionalized nitroarenes over high-loading Pt/FeO _x catalysts. <i>Chemical Science</i> , 2017, 8, 5126-5131. | 3.7 | 90 |
| 18 | Oxidative strong metal-support interactions (OMSI) of supported platinum-group metal catalysts. <i>Chemical Science</i> , 2018, 9, 6679-6684. | 3.7 | 89 |

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|----|--|-----|-----------|
| 19 | A Durable Nickel Single-Atom Catalyst for Hydrogenation Reactions and Cellulose Valorization under Harsh Conditions. <i>Angewandte Chemie</i> , 2018, 130, 7189-7193. | 1.6 | 64 |
| 20 | Cleavage of lignin C–O bonds over a heterogeneous rhenium catalyst through hydrogen transfer reactions. <i>Green Chemistry</i> , 2019, 21, 5556-5564. | 4.6 | 62 |
| 21 | Oxygen surface groups of activated carbon steer the chemoselective hydrogenation of substituted nitroarenes over nickel nanoparticles. <i>Chemical Communications</i> , 2017, 53, 1969-1972. | 2.2 | 53 |
| 22 | Tuning the coordination environment of single-atom catalyst M-N-C towards selective hydrogenation of functionalized nitroarenes. <i>Nano Research</i> , 2022, 15, 519-527. | 5.8 | 53 |
| 23 | ZnAl–Hydrotalcite-Supported Au ₂₅ Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie</i> , 2017, 129, 2753-2757. | 1.6 | 40 |
| 24 | Modulating <i>trans</i> -imination and hydrogenation towards the highly selective production of primary diamines from dialdehydes. <i>Green Chemistry</i> , 2020, 22, 6897-6901. | 4.6 | 32 |
| 25 | Introducing Co–O Moiety to Co–N–C Single-Atom Catalyst for Ethylbenzene Dehydrogenation. <i>ACS Catalysis</i> , 2022, 12, 7760-7772. | 5.5 | 23 |
| 26 | Synergy between Ru and WO _x Enables Efficient Hydrodeoxygenation of Primary Amides to Amines. <i>ACS Catalysis</i> , 2022, 12, 6302-6312. | 5.5 | 18 |
| 27 | Highly efficient Co single-atom catalyst for epoxidation of plant oils. <i>Journal of Chemical Physics</i> , 2021, 154, 131103. | 1.2 | 6 |
| 28 | 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. | 6.9 | 4 |