

# Jin-Cheng Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

5,893  
citations

361413

20  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

5715  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Prediction of Graphdiyne-Supported Three-Atom Single-Cluster Catalysts. <i>CCS Chemistry</i> , 2023, 5, 152-163.	7.8	25
2	Few-Atom Pt Ensembles Enable Efficient Catalytic Cyclohexane Dehydrogenation for Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2022, 144, 3535-3542.	13.7	72
3	Breaking the scaling relations for efficient N <sub>2</sub> -to-NH <sub>3</sub> conversion by a bowl active site design: Insight from LaRuSi and isostructural electrides. <i>Chinese Journal of Catalysis</i> , 2022, 43, 2183-2192.	14.0	9
4	Strain engineering in single-atom catalysts: GaPS <sub>4</sub> for bifunctional oxygen reduction and evolution. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 4272-4280.	6.0	15
5	VASPKIT: A user-friendly interface facilitating high-throughput computing and analysis using VASP code. <i>Computer Physics Communications</i> , 2021, 267, 108033.	7.5	2,308
6	Unravelling the Enigma of Nonoxidative Conversion of Methane on Iron Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2020, 132, 18745-18749.	2.0	12
7	Unravelling the Enigma of Nonoxidative Conversion of Methane on Iron Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18586-18590.	13.8	44
8	Constructing High-Loading Single-Atom/Cluster Catalysts via an Electrochemical Potential Window Strategy. <i>Journal of the American Chemical Society</i> , 2020, 142, 3375-3383.	13.7	147
9	Understanding Heterolytic H <sub>2</sub> Cleavage and Water-Assisted Hydrogen Spillover on Fe <sub>3</sub> O <sub>4</sub> (001)-Supported Single Palladium Atoms. <i>ACS Catalysis</i> , 2019, 9, 7876-7887.	11.2	63
10	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , 2019, 10, 1779.	12.8	185
11	High Uptake of ReO <sub>4</sub> <sup>-</sup> and CO <sub>2</sub> Conversion by a Radiation-Resistant Thorium-Nickel [Th <sub>48</sub> Ni <sub>6</sub> ] Nanocage-Based Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6022-6027.	13.8	109
12	High Uptake of ReO <sub>4</sub> <sup>-</sup> and CO <sub>2</sub> Conversion by a Radiation-Resistant Thorium-Nickel [Th <sub>48</sub> Ni <sub>6</sub> ] Nanocage-Based Metal-Organic Framework. <i>Angewandte Chemie</i> , 2019, 131, 6083-6088.	2.0	15
13	Molecular nitrogen promotes catalytic hydrodeoxygenation. <i>Nature Catalysis</i> , 2019, 2, 1078-1087.	34.4	63
14	Non defect-stabilized thermally stable single-atom catalyst. <i>Nature Communications</i> , 2019, 10, 234.	12.8	452
15	Heterogeneous Fe <sub>3</sub> single-cluster catalyst for ammonia synthesis via an associative mechanism. <i>Nature Communications</i> , 2018, 9, 1610.	12.8	409
16	Efficient Nitrogen Fixation via a Redox-Flexible Single-Iron Site with Reverse-Dative Iron-Boron $\pi$ Bonding. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4530-4537.	2.5	23
17	Surface Single-Cluster Catalyst for N <sub>2</sub> -to-NH <sub>3</sub> Thermal Conversion. <i>Journal of the American Chemical Society</i> , 2018, 140, 46-49.	13.7	233
18	Theoretical understanding of the stability of single-atom catalysts. <i>National Science Review</i> , 2018, 5, 638-641.	9.5	194

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19	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018, 13, 856-861.	31.5	741
20	Size-dependent dynamic structures of supported gold nanoparticles in CO oxidation reaction condition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7700-7705.	7.1	183
21	Toward Rational Design of Oxide-Supported Single-Atom Catalysts: Atomic Dispersion of Gold on Ceria. <i>Journal of the American Chemical Society</i> , 2017, 139, 6190-6199.	13.7	333
22	On the Nature of Support Effects of Metal Dioxides $MO_2$ (M = Ti, Zr, Hf, Ce, Th) in Single-Atom Gold Catalysts: Importance of Quantum Primogenic Effect. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17514-17526.	3.1	120
23	Mechanistic Insights into Propene Epoxidation with $O_2/H_2O$ Mixture on $Au_7/\gamma-Al_2O_3$ : A Hydroproxyl Pathway from ab Initio Molecular Dynamics Simulations. <i>ACS Catalysis</i> , 2016, 6, 2525-2535.	11.2	70
24	Multifunctional CoO@C metasequoia arrays for enhanced lithium storage. <i>Nano Energy</i> , 2014, 7, 52-62.	16.0	65