Jin-Cheng Liu

List of Publications by Year
in descending order

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	VASPKIT: A user-friendly interface facilitating high-throughput computing and analysis using VASP code. Computer Physics Communications, 2021, 267, 108033.	7.5	2,308
2	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. Nature Nanotechnology, 2018, 13, 856-861.	31.5	741
3	Non defect-stabilized thermally stable single-atom catalyst. Nature Communications, 2019, 10, 234.	12.8	452
4	Heterogeneous Fe3 single-cluster catalyst for ammonia synthesis via an associative mechanism. Nature Communications, 2018, 9, 1610.	12.8	409
5	Toward Rational Design of Oxide-Supported Single-Atom Catalysts: Atomic Dispersion of Gold on Ceria. Journal of the American Chemical Society, 2017, 139, 6190-6199.	13.7	333
6	Surface Single-Cluster Catalyst for N₂-to-NH₃ Thermal Conversion. Journal of the American Chemical Society, 2018, 140, 46-49.	13.7	233
7	Theoretical understanding of the stability of single-atom catalysts. National Science Review, 2018, 5, 638-641.	9.5	194
8	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. Nature Communications, 2019, 10, 1779.	12.8	185
9	Size-dependent dynamic structures of supported gold nanoparticles in CO oxidation reaction condition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7700-7705.	7.1	183
10	Constructing High-Loading Single-Atom/Cluster Catalysts via an Electrochemical Potential Window Strategy. Journal of the American Chemical Society, 2020, 142, 3375-3383.	13.7	147
11	On the Nature of Support Effects of Metal Dioxides MO₂ (M = Ti, Zr, Hf, Ce, Th) in Single-Atom Gold Catalysts: Importance of Quantum Primogenic Effect. Journal of Physical Chemistry C, 2016, 120, 17514-17526.	3.1	120
12	High Uptake of ReO₄^{â^'} and CO₂ Conversion by a Radiationâ€Resistant Thoriumâ€"Nickle [Th₄₈Ni₆] Nanocageâ€Based Metalâ€"Organic Framework. Angewandte Chemie - International Edition, 2019, 58, 6022-6027.	13.8	109
13	Few-Atom Pt Ensembles Enable Efficient Catalytic Cyclohexane Dehydrogenation for Hydrogen Production. Journal of the American Chemical Society, 2022, 144, 3535-3542.	13.7	72
14	Mechanistic Insights into Propene Epoxidation with O₂â€"H₂O Mixture on Au₇/Î±-Al₂O₃: A Hydroproxyl Pathway from ab Initio Molecular Dynamics Simulations. ACS Catalysis, 2016, 6, 2525-2535.	11.2	70
15	Multifunctional CoO@C metasequoia arrays for enhanced lithium storage. Nano Energy, 2014, 7, 52-62.	16.0	65
16	Understanding Heterolytic H₂ Cleavage and Water-Assisted Hydrogen Spillover on Fe₃O₄(001)-Supported Single Palladium Atoms. ACS Catalysis, 2019, 9, 7876-7887.	11.2	63
17	Molecular nitrogen promotes catalytic hydrodeoxygenation. Nature Catalysis, 2019, 2, 1078-1087.	34.4	63
18	Unravelling the Enigma of Nonoxidative Conversion of Methane on Iron Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 18586-18590.	13.8	44

#	Article	IF	Citations
19	Computational Prediction of Graphdiyne-Supported Three-Atom Single-Cluster Catalysts. CCS Chemistry, 2023, 5, 152-163.	7.8	25
20	Efficient Nitrogen Fixation via a Redox-Flexible Single-Iron Site with Reverse-Dative Iron â†' Boron Ïƒ Bonding. Journal of Physical Chemistry A, 2018, 122, 4530-4537.	2.5	23
21	High Uptake of ReO₄^{â^'} and CO₂ Conversion by a Radiationâ€Resistant Thoriumâ€"Nickle [Th₄₈Ni₆] Nanocageâ€Based Metalâ€"Organic Framework. Angewandte Chemie, 2019, 131, 6083-6088.	2.0	15
22	Strain engineering in single-atom catalysts: GaPS₄ for bifunctional oxygen reduction and evolution. Inorganic Chemistry Frontiers, 2022, 9, 4272-4280.	6.0	15
23	Unravelling the Enigma of Nonoxidative Conversion of Methane on Iron Singleâ€Atom Catalysts. Angewandte Chemie, 2020, 132, 18745-18749.	2.0	12
24	Breaking the scaling relations for efficient N2-to-NH3 conversion by a bowl active site design: Insight from LaRuSi and isostructural electrides. Chinese Journal of Catalysis, 2022, 43, 2183-2192.	14.0	9