

# Hai-Tao Liu

## List of Publications by Year in descending order

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papers

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citations

567281

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docs citations

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times ranked

1059  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial lithium-nitrogen bond catalyzes sulfide oxidation reactions in high-loading Li <sub>2</sub> S cathode. Chemical Engineering Journal, 2022, 429, 132352.	12.7	18
2	Construction of Moisture-Stable Lithium Diffusion Controlling Layer toward High Performance Dendrite-Free Lithium Anode. Advanced Functional Materials, 2022, 32, 2110468.	14.9	32
3	Lithium Storage Mechanism and Application of Micron-Sized Lattice-Reversible Binary Intermetallic Compounds as High-Performance Flexible Lithium-Ion Battery Anodes. Small, 2022, 18, e2105172.	10.0	6
4	In Situ Self-Assembly of Ordered Organic/Inorganic Dual-Layered Interphase for Achieving Long-Life Dendrite-Free Li Metal Anodes in LiFSI-Based Electrolyte. Advanced Functional Materials, 2021, 31, 2007434.	14.9	65
5	Anionic oxygen vacancies in Nb <sub>2</sub> O <sub>5</sub> -carbon hybrid host endow rapid catalytic behaviors for high-performance high areal loading lithium sulfur pouch cell. Chemical Engineering Journal, 2021, 417, 128172.	12.7	40
6	Boosting the Oxidative Potential of Polyethylene Glycol-Based Polymer Electrolyte to 4.36 V by Spatially Restricting Hydroxyl Groups for High-Voltage Flexible Lithium-Ion Battery Applications. Advanced Science, 2021, 8, e2100736.	11.2	39
7	In situ-grown tungsten carbide nanoparticles on nanocarbon as an electrocatalyst to promote the redox reaction kinetics of high-mass loading sulfur cathode for high volumetric performance. Journal of Materials Chemistry A, 2020, 8, 22240-22250.	10.3	19
8	Boosting CO <sub>2</sub> Conversion with Terminal Alkynes by Molecular Architecture of Graphene Oxide-Supported Ag Nanoparticles. Matter, 2020, 3, 558-570.	10.0	42
9	Relativistic Effects Stabilize the Planar Wheel-like Structure of Actinide-Doped Gold Clusters: An@Au <sub>7</sub> (An = Th to Cm). Journal of Physical Chemistry A, 2020, 124, 8173-8183.	2.5	8
10	Metalation of Catechol-Functionalized Defective Covalent Organic Frameworks for Lewis Acid Catalysis. Small, 2020, 16, e2001998.	10.0	43
11	Iron vacancies and surface modulation of iron disulfide nanoflowers as a high power/energy density cathode for ultralong-life stable Li storage. Journal of Materials Chemistry A, 2020, 8, 14769-14777.	10.3	23
12	Multi-ion Modulated Single-Step Synthesis of a Nanocarbon Embedded with a Defect-Rich Nanoparticle Catalyst for a High Loading Sulfur Cathode. ACS Applied Materials & Interfaces, 2020, 12, 12727-12735.	8.0	27
13	Single atomic cobalt catalyst significantly accelerates lithium ion diffusion in high mass loading Li <sub>2</sub> S cathode. Energy Storage Materials, 2020, 28, 375-382.	18.0	92
14	Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO <sub>2</sub> cycloaddition. Science Advances, 2020, 6, eaaz4824.	10.3	68
15	Understanding the origin of bandgap problem in transition and post-transition metal oxides. Journal of Chemical Physics, 2019, 151, 124703.	3.0	8
16	Two-dimensional ferromagnetic-ferroelectric multiferroics in violation of the d <sup>0</sup> rule. Physical Review B, 2019, 99, .	4.2	16
17	Single-atom catalyst boosts electrochemical conversion reactions in batteries. Energy Storage Materials, 2019, 18, 246-252.	18.0	203
18	Bonding Properties and Oxidation States of Plutonium in Pu <sub>2</sub> O <sub>3</sub> (n = 1-8) Molecules Studied by Using Screened Hybrid Density Functional Theory. Journal of Physical Chemistry A, 2018, 122, 4085-4091.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Electronic Structure and Chemical Bonding of $[AmO_2(H_2O)_n]^{2+/1+}$ . ACS Omega, 2018, 3, 13902-13912.	3.5	1
20	Spin-Orbit Coupling Effects on Ligand-Free Icosahedral Matryoshka Superatoms. Journal of Physical Chemistry A, 2017, 121, 2420-2428.	2.5	6
21	Structural and electronic properties of $UnOm$ ( $n=1-3, m=1-3n$ ) clusters: A theoretical study using screened hybrid density functional theory. Journal of Chemical Physics, 2016, 144, 184304.	3.0	9
22	Quantum molecular dynamics study of expanded beryllium: Evolution from warm dense matter to atomic fluid. Scientific Reports, 2014, 4, 5898.	3.3	19
23	Electronic and magnetic properties of boron nitride nanoribbons with topological line defects. RSC Advances, 2012, 2, 6192.	3.6	14
24	Structural and electronic properties of $Sc_nO_m$ $\text{Sc}_{n-1}\text{O}_m$		