

Hai-Tao Liu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

861
citations

567281

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all docs

26
docs citations

26
times ranked

1059
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Single-atom catalyst boosts electrochemical conversion reactions in batteries. <i>Energy Storage Materials</i> , 2019, 18, 246-252. | 18.0 | 203 |
| 2 | Single atomic cobalt catalyst significantly accelerates lithium ion diffusion in high mass loading Li ₂ S cathode. <i>Energy Storage Materials</i> , 2020, 28, 375-382. | 18.0 | 92 |
| 3 | Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO ₂ cycloaddition. <i>Science Advances</i> , 2020, 6, eaaz4824. | 10.3 | 68 |
| 4 | Two-dimensional ferromagnetic-ferroelectric multiferroics in violation of the d ⁰ rule. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 16 |
| 5 | In Situ Self-Assembly of Ordered Organic/Inorganic Dual-Layered Interphase for Achieving Long-Life Dendrite-Free Li Metal Anodes in LiFSI-Based Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2007434. | 14.9 | 65 |
| 6 | Metalation of Catechol-Functionalized Defective Covalent Organic Frameworks for Lewis Acid Catalysis. <i>Small</i> , 2020, 16, e2001998. | 10.0 | 43 |
| 7 | Boosting CO ₂ Conversion with Terminal Alkynes by Molecular Architecture of Graphene Oxide-Supported Ag Nanoparticles. <i>Matter</i> , 2020, 3, 558-570. | 10.0 | 42 |
| 8 | Anionic oxygen vacancies in Nb ₂ O ₅ -carbon hybrid host endow rapid catalytic behaviors for high-performance high areal loading lithium sulfur pouch cell. <i>Chemical Engineering Journal</i> , 2021, 417, 128172. | 12.7 | 40 |
| 9 | 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. <i>Advanced Science</i> , 2021, 8, e2100736. | 11.2 | 39 |
| 10 | Construction of Moisture-Stable Lithium Diffusion Controlling Layer toward High Performance Dendrite-Free Lithium Anode. <i>Advanced Functional Materials</i> , 2022, 32, 2110468. | 14.9 | 32 |
| 11 | Multi-ion Modulated Single-Step Synthesis of a Nanocarbon Embedded with a Defect-Rich Nanoparticle Catalyst for a High Loading Sulfur Cathode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12727-12735. | 8.0 | 27 |
| 12 | Iron vacancies and surface modulation of iron disulfide nanoflowers as a high power/energy density cathode for ultralong-life stable Li storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14769-14777. | 10.3 | 23 |
| 13 | Quantum molecular dynamics study of expanded beryllium: Evolution from warm dense matter to atomic fluid. <i>Scientific Reports</i> , 2014, 4, 5898. | 3.3 | 19 |
| 14 | 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. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22240-22250. | 10.3 | 19 |
| 15 | Interfacial lithium-nitrogen bond catalyzes sulfide oxidation reactions in high-loading Li ₂ S cathode. <i>Chemical Engineering Journal</i> , 2022, 429, 132352. | 12.7 | 18 |
| 16 | Electronic and magnetic properties of boron nitride nanoribbons with topological line defects. <i>RSC Advances</i> , 2012, 2, 6192. | 3.6 | 14 |
| 17 | Structural and electronic properties of UnOm (n=1-3,m=1-3n) clusters: A theoretical study using screened hybrid density functional theory. <i>Journal of Chemical Physics</i> , 2016, 144, 184304. | 3.0 | 9 |
| 18 | Understanding the origin of bandgap problem in transition and post-transition metal oxides. <i>Journal of Chemical Physics</i> , 2019, 151, 124703. | 3.0 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Relativistic Effects Stabilize the Planar Wheel-like Structure of Actinide-Doped Gold Clusters: An@Au ₇ (An = Th to Cm). Journal of Physical Chemistry A, 2020, 124, 8173-8183. Structural and electronic properties of Sc | 2.5 | 8 |
| 20 | xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>n</mml:mi></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow | | |