

Zhibin Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,240
citations

686830

13
h-index

642321

23
g-index

23
all docs

23
docs citations

23
times ranked

1902
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic Sandwich-Type rGO/VS ₂ /S Composites with High Tap Density: Structural and Chemical Cooperativity Enabling Lithium-Sulfur Batteries with High Energy Density. <i>Advanced Energy Materials</i> , 2018, 8, 1702337.	10.2	227
2	Separator Modified by Cobalt-Embedded Carbon Nanosheets Enabling Chemisorption and Catalytic Effects of Polysulfides for High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901609.	10.2	158
3	Porous Organic Polymers for Polysulfide Trapping in Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1707597.	7.8	154
4	Engineered Interfusion of Hollow Nitrogen-Doped Carbon Nanospheres for Improving Electrochemical Behavior and Energy Density of Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1902322.	7.8	125
5	Covalent organic frameworks with lithiophilic and sulfiphilic dual linkages for cooperative affinity to polysulfides in lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018, 12, 252-259.	9.5	117
6	Metallic MoS ₂ Nanoflowers Decorated Graphene Nanosheet Catalytically Boosts the Volumetric Capacity and Cycle Life of Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003718.	10.2	105
7	The Fusion of Imidazolium-Based Ionic Polymer and Carbon Nanotubes: One Type of New Heteroatom-Doped Carbon Precursors for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1703936.	7.8	98
8	High sulfur content and volumetric capacity promised by a compact freestanding cathode for high-performance lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 27, 435-442.	9.5	39
9	Threefold Collaborative Stabilization of Ag ₁₄ -Nanorods by Hydrophobic Ti ₁₆ -Oxo Clusters and Alkynes: Designable Assembly and Solid-State Optical-Limiting Application. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12949-12954.	7.2	38
10	Electrostatic trapping of polysulfides enabled by imidazolium-based ionic polymers for high-energy-density lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7375-7381.	5.2	30
11	Pore-space-partitioned MOF separator promotes high-sulfur-loading Li-S batteries with intensified rate capability and cycling life. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26929-26938.	5.2	27
12	Flexible Cathode Materials Enabled by a Multifunctional Covalent Organic Gel for Lithium-Sulfur Batteries with High Areal Capacities. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8032-8039.	4.0	24
13	Manganese dioxide nanosheet functionalized reduced graphene oxide as a compacted cathode matrix for lithium-sulphur batteries with a low electrolyte/sulphur ratio. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21824-21832.	5.2	22
14	Ammonia-free fabrication of ultrafine vanadium nitride nanoparticles as interfacial mediators for promoting electrochemical behaviors of lithium-sulfur batteries. <i>Nanoscale</i> , 2021, 13, 5292-5299.	2.8	15
15	Mitigation of vacancy with ammonium salt-trapped ZIF-8 capsules for stable perovskite solar cells through simultaneous compensation and loss inhibition. <i>Nanoscale Advances</i> , 2021, 3, 3554-3562.	2.2	13
16	Multifunctional anionic metal-organic frameworks enhancing stability of perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 433, 133587.	6.6	11
17	Cobalt-embedded 3D conductive honeycomb architecture to enable high-sulphur-loading Li-S batteries under lean electrolyte conditions. <i>Nano Research</i> , 2022, 15, 8091-8100.	5.8	10
18	Threefold Collaborative Stabilization of Ag ₁₄ -Nanorods by Hydrophobic Ti ₁₆ -Oxo Clusters and Alkynes: Designable Assembly and Solid-State Optical-Limiting Application. <i>Angewandte Chemie</i> , 2021, 133, 13059-13064.	1.6	7

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19	Structural Isomerization in Cu(I) Clusters: Tracing the Cu Thermal Migration Paths and Unveiling the Structure-Dependent Photoluminescence. <i>CCS Chemistry</i> , 2023, 5, 350-360.	4.6	7
20	Lithium Sulfur Batteries: Elastic Sandwich-Type rGO-VS ₂ /S Composites with High Tap Density: Structural and Chemical Cooperativity Enabling Lithium-Sulfur Batteries with High Energy Density (<i>Adv. Energy Mater.</i> 10/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870046.	10.2	6
21	Lithium Sulfur Batteries: Metallic MoS ₂ Nanoflowers Decorated Graphene Nanosheet Catalytically Boosts the Volumetric Capacity and Cycle Life of Lithium Sulfur Batteries (<i>Adv. Energy</i>) Tj ETQq1 1 007.843144gBT /Over		
22	Mixing halogens improves the passivation effects of amine halide on perovskite. <i>Electrochimica Acta</i> , 2022, 405, 139782.	2.6	2
23	Lithium Sulfur Batteries: The Fusion of Imidazolium-Based Ionic Polymer and Carbon Nanotubes: One Type of New Heteroatom-Doped Carbon Precursors for High-Performance Lithium Sulfur Batteries (<i>Adv. Funct. Mater.</i> 44/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	1