

Zihan Shen

List of Publications by Year in descending order

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41
papers

3,427
citations

304743

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times ranked

5713
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon and Graphene Quantum Dots for Optoelectronic and Energy Devices: A Review. <i>Advanced Functional Materials</i> , 2015, 25, 4929-4947.	14.9	1,072
2	Nitrogen-Doped CoP Electrocatalysts for Coupled Hydrogen Evolution and Sulfur Generation with Low Energy Consumption. <i>Advanced Materials</i> , 2018, 30, e1800140.	21.0	336
3	Multifunctional Co ₃ S ₄ @sulfur nanotubes for enhanced lithium-sulfur battery performance. <i>Nano Energy</i> , 2017, 37, 7-14.	16.0	335
4	Rational Design of a Ni ₃ N _{0.85} Electrocatalyst to Accelerate Polysulfide Conversion in Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 6673-6682.	14.6	212
5	Cation-doped ZnS catalysts for polysulfide conversion in lithium-sulfur batteries. <i>Nature Catalysis</i> , 2022, 5, 555-563.	34.4	198
6	Interlayer Lithium Plating in Au Nanoparticles Pillared Reduced Graphene Oxide for Lithium Metal Anodes. <i>Advanced Functional Materials</i> , 2018, 28, 1804133.	14.9	142
7	Efficient Ni ₂ Co ₄ P ₃ Nanowires Catalysts Enhance Ultrahigh-Loading Lithium-Sulfur Conversion in a Microreactor-Like Battery. <i>Advanced Functional Materials</i> , 2020, 30, 1906661.	14.9	134
8	Amorphous ZnO based resistive random access memory. <i>RSC Advances</i> , 2016, 6, 17867-17872.	3.6	109
9	Biomimetic Bipolar Microcapsules Derived from <i>Staphylococcus aureus</i> for Enhanced Properties of Lithium-Sulfur Battery Cathodes. <i>Advanced Energy Materials</i> , 2018, 8, 1702373.	19.5	106
10	Electrodeposition Technologies for Li-Based Batteries: New Frontiers of Energy Storage. <i>Advanced Materials</i> , 2020, 32, e1903808.	21.0	70
11	Electroplating lithium transition metal oxides. <i>Science Advances</i> , 2017, 3, e1602427.	10.3	62
12	Enhanced synergistic catalysis by a novel triple-phase interface design of NiO/Ru@Ni for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2344-2350.	10.3	61
13	Structure design of NiCo ₂ O ₄ electrodes for high performance pseudocapacitors and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17394-17402.	10.3	53
14	Oxygen-Deficient Ferric Oxide as an Electrochemical Cathode Catalyst for High-Energy Lithium-Sulfur Batteries. <i>Small</i> , 2020, 16, e2000870.	10.0	49
15	Carbon-Free O ₂ Cathode with Three-Dimensional Ultralight Nickel Foam-Supported Ruthenium Electrocatalysts for Li-O ₂ Batteries. <i>ChemSusChem</i> , 2017, 10, 2714-2719.	6.8	39
16	(Co/Fe) ₄ O ₄ Cubane-Containing Nanorings Fabricated by Phosphorylating Cobalt Ferrite for Highly Efficient Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 3878-3887.	11.2	38
17	Sulfophobic and Vacancy Design Enables Self-Cleaning Electrodes for Efficient Desulfurization and Concurrent Hydrogen Evolution with Low Energy Consumption. <i>Advanced Functional Materials</i> , 2021, 31, 2101922.	14.9	34
18	Aliovalent fluorine doping and anodization-induced amorphization enable bifunctional catalysts for efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10831-10838.	10.3	31

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19	Engineering Two-Dimensional Metal-Organic Framework on Molecular Basis for Fast Li ⁺ Conduction. <i>Nano Letters</i> , 2021, 21, 5805-5812.	9.1	31
20	In Situ Formation of Polycyclic Aromatic Hydrocarbons as an Artificial Hybrid Layer for Lithium Metal Anodes. <i>Nano Letters</i> , 2022, 22, 263-270.	9.1	31
21	In Situ Tuning of Defects and Phase Transition in Titanium Dioxide by Lithiothermic Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5750-5758.	8.0	30
22	Unipolar resistive switching of ZnO-single-wire memristors. <i>Nanoscale Research Letters</i> , 2014, 9, 381.	5.7	22
23	CoSe ₂ /MoS ₂ Heterostructures to Couple Polysulfide Adsorption and Catalysis in Lithium-Sulfur Batteries. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1138-1144.	4.9	21
24	A Polysulfides-Confined All-In-One Porous Microcapsule Lithium-Sulfur Battery Cathode. <i>Small</i> , 2021, 17, e2103051.	10.0	21
25	A Lamellar Yolk-Shell Lithium-Sulfur Battery Cathode Displaying Ultralong Cycling Life, High Rate Performance, and Temperature Tolerance. <i>Advanced Science</i> , 2022, 9, e2103517.	11.2	20
26	Low Interface Energies Tune the Electrochemical Reversibility of Tin Oxide Composite Nanoframes as Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36892-36901.	8.0	19
27	High-performance Li-ion Sn anodes with enhanced electrochemical properties using highly conductive TiN nanotubes array as a 3D multifunctional support. <i>Journal of Power Sources</i> , 2017, 360, 189-195.	7.8	17
28	A novel ternary sulfur/carbon@tin dioxide composite with polysulfides-adsorptive shell and conductive core as high-performance lithium-sulfur battery cathodes. <i>Applied Surface Science</i> , 2019, 489, 462-469.	6.1	16
29	Electronic modulation of nickel phosphide by iron doping and its assembly on a graphene framework for efficient electrocatalytic water oxidation. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153913.	5.5	15
30	CuO/ZnO memristors via oxygen or metal migration controlled by electrodes. <i>AIP Advances</i> , 2016, 6, .	1.3	14
31	ZIF-derived ZnO/Sb composite scaffolded on carbon framework for Ni-Zn batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 823-831.	9.4	13
32	A novel wheel-confined composite as cathode in Li-S batteries with high capacity retention. <i>Journal of Alloys and Compounds</i> , 2019, 776, 504-510.	5.5	11
33	Renewable Polysulfide Regulation by Versatile Films toward High-Loading Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47590-47598.	8.0	11
34	Efficient transport system of cultivated mushroom mycelium enables its derived carbon with high performance electrochemical desalination capability. <i>Carbon</i> , 2022, 196, 699-707.	10.3	11
35	Hydrogel assisted synthesis of Li ₃ V ₂ (PO ₄) ₃ composite as high energy density and low-temperature stable secondary battery cathode. <i>Journal of Alloys and Compounds</i> , 2018, 739, 837-847.	5.5	10
36	Silicon Quantum Dots Induce Uniform Lithium Plating in a Sandwiched Metal Anode. <i>ChemElectroChem</i> , 2020, 7, 2026-2032.	3.4	8

#	ARTICLE	IF	CITATIONS
37	A novel tin hybrid nano-composite with double nets of carbon matrixes as a stable anode in lithium ion batteries. <i>Chemical Communications</i> , 2017, 53, 13125-13128.	4.1	7
38	Novel Doughnutlike Graphene Quantum Dot-Decorated Composites for High-Performance Li-S Batteries Displaying Dual Immobilization Toward Polysulfides. <i>ACS Applied Energy Materials</i> , 2021, 4, 10998-11003.	5.1	7
39	A bee pupa-infilled honeycomb structure-inspired $\text{Li}_2\text{MnSiO}_4$ cathode for high volumetric energy density secondary batteries. <i>Chemical Communications</i> , 2019, 55, 3582-3585.	4.1	4
40	Three-dimensional Co_9S_8 nanotube network/sulfur composite cathode with enhanced lithium-sulfur battery performance. <i>Nanotechnology</i> , 2020, 31, 295404.	2.6	4
41	Three-Dimensionally Scaffolded Hydrogel@Sulfur Composite as a Binder-Free Polysulfides-Adsorptive Cathode for High-Performance Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2019, 7, 1801158.	3.8	3