

Chenyang Zha

List of Publications by Year in descending order

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39
papers

1,402
citations

346980

22
h-index

388640

36
g-index

39
all docs

39
docs citations

39
times ranked

2540
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrodeposition of a dendrite-free 3D Al anode for improving cycling of an aluminum-graphite battery. , 2022, 4, 155-169.		16
2	<i>In situ</i> tailored strategy to remove capping agents from copper sulfide for building better lithium-sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 4015-4023.	5.2	7
3	Single-atom tailoring of Li ₂ S to Form Li ₂ S ₂ for building better lithium-sulfur batteries. Energy Storage Materials, 2022, 47, 79-86.	9.5	18
4	The presolvation strategy of Li ₂ S cathodes for lithium-sulfur batteries: a review. Journal of Materials Chemistry A, 2022, 10, 10326-10341.	5.2	17
5	High electrochemical activity of Li ₂ S ₂ linking two-dimensional tungsten boride nanosheet enables high-loading and long-lasting lithium-sulfur batteries. Materials Today Energy, 2022, 25, 100970.	2.5	7
6	Dynamic Reversible Evolution of Solid Electrolyte Interface in Nonflammable Triethyl Phosphate Electrolyte Enabling Safe and Stable Potassium-Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	32
7	Stimulating and Manipulating Robust Circularly Polarized Photoluminescence in Achiral Hybrid Perovskites. Nano Letters, 2022, 22, 3961-3968.	4.5	13
8	Synergistically boosting the elementary reactions over multiheterogeneous ordered macroporous Mo ₂ C/NC@Ru for highly efficient alkaline hydrogen evolution. , 2022, 4, 856-866.		27
9	Two-dimensional multimetallic sulfide nanosheets with multi-active sites to enhance polysulfide redox reactions in liquid Li ₂ S ₆ -based lithium-polysulfide batteries. Journal of Energy Chemistry, 2021, 52, 163-169.	7.1	28
10	Triple-phase interfaces of graphene-like carbon clusters on antimony trisulfide nanowires enable high-loading and long-lasting liquid Li ₂ S ₆ -based lithium-sulfur batteries. Journal of Energy Chemistry, 2021, 59, 599-607.	7.1	26
11	Self-limiting lithiation of vanadium diboride nanosheets as ultra-stable mediators towards high-sulfur loading and long-cycle lithium sulfur batteries. Sustainable Energy and Fuels, 2021, 5, 3134-3142.	2.5	10
12	Be water strategy of liquid lithium sulfide enables 0.2V potential barrier for high-performance lithium-sulfur batteries. Materials Today Energy, 2021, 21, 100793.	2.5	8
13	Facet-tailoring five-coordinated Ti sites and structure-optimizing electron transfer in a bifunctional cathode with titanium nitride nanowire array to boost the performance of Li ₂ S ₆ -based lithium-sulfur batteries. Energy Storage Materials, 2020, 26, 40-45.	9.5	43
14	Engineering the Phases and Heterostructures of Ultrathin Hybrid Perovskite Nanosheets. Advanced Materials, 2020, 32, e2002392.	11.1	25
15	Borophene-like boron subunits-inserted molybdenum framework of MoB ₂ enables stable and quick-acting Li ₂ S ₆ -based lithium-sulfur batteries. Energy Storage Materials, 2020, 32, 216-224.	9.5	42
16	Tuning optical properties of monolayer MoS ₂ through the OD/2D interfacial effect with C60 nanoparticles. Applied Surface Science, 2020, 523, 146371.	3.1	12
17	The efficient redox electron transfer and powered polysulfide confinement of carbon doped tungsten nitride with multi-active sites towards high-performance lithium-polysulfide batteries. Applied Surface Science, 2020, 525, 146625.	3.1	8
18	Recent Advances in Two-Dimensional Magnets: Physics and Devices towards Spintronic Applications. Research, 2020, 2020, 1768918.	2.8	58

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19	Interfacial active fluorine site-induced electron transfer on TiO ₂ (001) facets to enhance polysulfide redox reactions for better liquid Li ₂ S ₆ -Based lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6431-6438.	5.2	45
20	Selective electrocatalytic CO ₂ reduction enabled by SnO ₂ nanoclusters. <i>Journal of Energy Chemistry</i> , 2019, 37, 93-96.	7.1	52
21	Controlled chemical etching leads to efficient silicon-bismuth interface for photoelectrochemical CO ₂ reduction to formate. <i>Materials Today Chemistry</i> , 2019, 11, 80-85.	1.7	31
22	A facile and effective sulfur loading method: Direct drop of liquid Li ₂ S ₈ on carbon coated TiO ₂ nanowire arrays as cathode towards commercializing lithium-sulfur battery. <i>Energy Storage Materials</i> , 2019, 17, 118-125.	9.5	72
23	Li ⁺ CO ₂ Batteries: Conjugated Cobalt Polyphthalocyanine as the Elastic and Reprocessable Catalyst for Flexible Li ⁺ CO ₂ Batteries (<i>Adv. Mater.</i> 2/2019). <i>Advanced Materials</i> , 2019, 31, 1970014.	11.1	4
24	Ultra-dispersed molybdenum phosphide and phosphosulfide nanoparticles on hierarchical carbonaceous scaffolds for hydrogen evolution electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 656-661.	10.8	108
25	Conjugated Cobalt Polyphthalocyanine as the Elastic and Reprocessable Catalyst for Flexible Li ⁺ CO ₂ Batteries. <i>Advanced Materials</i> , 2019, 31, e1805484.	11.1	112
26	Scalable preparation and stabilization of atomic-thick CoNi layered double hydroxide nanosheets for bifunctional oxygen electrocatalysis and rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2019, 16, 24-30.	9.5	52
27	Rational Synthesis and Assembly of Ni ₃ S ₄ Nanorods for Enhanced Electrochemical Sodium-Ion Storage. <i>ACS Nano</i> , 2018, 12, 1829-1836.	7.3	104
28	Highly reversible Na and K metal anodes enabled by carbon paper protection. <i>Energy Storage Materials</i> , 2018, 15, 8-13.	9.5	85
29	Promoting polysulfide redox reactions and improving electronic conductivity in lithium-sulfur batteries via hierarchical cathode materials of graphene-wrapped porous TiO ₂ microspheres with exposed (001) facets. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16574-16582.	5.2	47
30	Designing effective Si/Ag interface via controlled chemical etching for photoelectrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21906-21912.	5.2	50
31	Deeply Repairing Surface States with Wet Chemistry Methods: Enhanced Performance in TiO ₂ Nanowire Arrays-Based Optoelectronic Device. <i>ChemistrySelect</i> , 2017, 2, 10971-10978.	0.7	10
32	Three-dimensional nanocomposites of graphene/carbon nanotube matrix-embedded Si nanoparticles for superior lithium ion batteries. <i>Advanced Materials Letters</i> , 2017, 8, 206-211.	0.3	2
33	One-Pot Synthesis of Pomegranate-Structured Fe ₃ O ₄ /Carbon Nanospheres-Doped Graphene Aerogel for High-Rate Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 4454-4459.	1.7	41
34	Anisotropic growth and structure-dependent photoresponse activity of multi-level one-dimensional PbS nano-architectures. <i>RSC Advances</i> , 2016, 6, 62226-62235.	1.7	9
35	Facet engineering of monodisperse PbS nanocrystals with shape- and facet-dependent photoresponse activity. <i>RSC Advances</i> , 2016, 6, 107151-107157.	1.7	22
36	Double-Sided Brush-Shaped TiO ₂ Nanostructure Assemblies with Highly Ordered Nanowires for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 122-129.	4.0	59

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37	Synthesis of highly-ordered TiO ₂ nanotube arrays with tunable sizes. Materials Research Express, 2014, 1, 035031.	0.8	5
38	A minky-dot-fabric-shaped composite of porous TiO ₂ microsphere/reduced graphene oxide for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 16931-16938.	5.2	44
39	Efficient Thermolysis Route to Monodisperse Cu ₂ ZnSnS ₄ Nanocrystals with Controlled Shape and Structure. Scientific Reports, 2014, 4, 5086.	1.6	51