

# Chenyang Zha

## List of Publications by Year in descending order

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39  
papers

1,402  
citations

304743

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h-index

345221

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39  
docs citations

39  
times ranked

2203  
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.	10.3	7
3	Single-atom tailoring of Li <sub>2</sub> S to Form Li <sub>2</sub> S <sub>2</sub> for building better lithium-sulfur batteries. Energy Storage Materials, 2022, 47, 79-86.	18.0	18
4	The presolvation strategy of Li <sub>2</sub> S cathodes for lithium-sulfur batteries: a review. Journal of Materials Chemistry A, 2022, 10, 10326-10341.	10.3	17
5	High electrochemical activity of Li <sub>2</sub> S <sub>2</sub> linking two-dimensional tungsten boride nanosheet enables high-loading and long-lasting lithium-sulfur batteries. Materials Today Energy, 2022, 25, 100970.	4.7	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, .	14.9	32
7	Stimulating and Manipulating Robust Circularly Polarized Photoluminescence in Achiral Hybrid Perovskites. Nano Letters, 2022, 22, 3961-3968.	9.1	13
8	Synergistically boosting the elementary reactions over multiheterogeneous ordered macroporous Mo <sub>2</sub> 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 <sub>2</sub> S <sub>6</sub> -based lithium-polysulfide batteries. Journal of Energy Chemistry, 2021, 52, 163-169.	12.9	28
10	Triple-phase interfaces of graphene-like carbon clusters on antimony trisulfide nanowires enable high-loading and long-lasting liquid Li <sub>2</sub> S <sub>6</sub> -based lithium-sulfur batteries. Journal of Energy Chemistry, 2021, 59, 599-607.	12.9	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.	4.9	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.	4.7	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 <sub>2</sub> S <sub>6</sub> -based lithium-sulfur batteries. Energy Storage Materials, 2020, 26, 40-45.	18.0	43
14	Engineering the Phases and Heterostructures of Ultrathin Hybrid Perovskite Nanosheets. Advanced Materials, 2020, 32, e2002392.	21.0	25
15	Borophene-like boron subunits-inserted molybdenum framework of MoB <sub>2</sub> enables stable and quick-acting Li <sub>2</sub> S <sub>6</sub> -based lithium-sulfur batteries. Energy Storage Materials, 2020, 32, 216-224.	18.0	42
16	Tuning optical properties of monolayer MoS <sub>2</sub> through the OD/2D interfacial effect with C60 nanoparticles. Applied Surface Science, 2020, 523, 146371.	6.1	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.	6.1	8
18	Recent Advances in Two-Dimensional Magnets: Physics and Devices towards Spintronic Applications. Research, 2020, 2020, 1768918.	5.7	58

#	ARTICLE	IF	CITATIONS
19	Interfacial active fluorine site-induced electron transfer on TiO <sub>2</sub> (001) facets to enhance polysulfide redox reactions for better liquid Li <sub>2</sub> S <sub>6</sub> -Based lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6431-6438.	10.3	45
20	Selective electrocatalytic CO <sub>2</sub> reduction enabled by SnO <sub>2</sub> nanoclusters. <i>Journal of Energy Chemistry</i> , 2019, 37, 93-96.	12.9	52
21	Controlled chemical etching leads to efficient silicon-bismuth interface for photoelectrochemical CO <sub>2</sub> reduction to formate. <i>Materials Today Chemistry</i> , 2019, 11, 80-85.	3.5	31
22	A facile and effective sulfur loading method: Direct drop of liquid Li <sub>2</sub> S <sub>8</sub> on carbon coated TiO <sub>2</sub> nanowire arrays as cathode towards commercializing lithium-sulfur battery. <i>Energy Storage Materials</i> , 2019, 17, 118-125.	18.0	72
23	Li <sup>+</sup> CO <sub>2</sub> Batteries: Conjugated Cobalt Polyphthalocyanine as the Elastic and Reprocessable Catalyst for Flexible Li <sup>+</sup> CO <sub>2</sub> Batteries ( <i>Adv. Mater.</i> 2/2019). <i>Advanced Materials</i> , 2019, 31, 1970014.	21.0	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.	20.2	108
25	Conjugated Cobalt Polyphthalocyanine as the Elastic and Reprocessable Catalyst for Flexible Li <sup>+</sup> CO <sub>2</sub> Batteries. <i>Advanced Materials</i> , 2019, 31, e1805484.	21.0	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.	18.0	52
27	Rational Synthesis and Assembly of Ni <sub>3</sub> S <sub>4</sub> Nanorods for Enhanced Electrochemical Sodium-Ion Storage. <i>ACS Nano</i> , 2018, 12, 1829-1836.	14.6	104
28	Highly reversible Na and K metal anodes enabled by carbon paper protection. <i>Energy Storage Materials</i> , 2018, 15, 8-13.	18.0	85
29	Promoting polysulfide redox reactions and improving electronic conductivity in lithium-sulfur batteries via hierarchical cathode materials of graphene-wrapped porous TiO <sub>2</sub> microspheres with exposed (001) facets. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16574-16582.	10.3	47
30	Designing effective Si/Ag interface via controlled chemical etching for photoelectrochemical CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21906-21912.	10.3	50
31	Deeply Repairing Surface States with Wet Chemistry Methods: Enhanced Performance in TiO <sub>2</sub> Nanowire Arrays-Based Optoelectronic Device. <i>ChemistrySelect</i> , 2017, 2, 10971-10978.	1.5	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.	0.6	2
33	One-Pot Synthesis of Pomegranate-Structured Fe <sub>3</sub> O <sub>4</sub> /Carbon Nanospheres-Doped Graphene Aerogel for High-Rate Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 4454-4459.	3.3	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.	3.6	9
35	Facet engineering of monodisperse PbS nanocrystals with shape- and facet-dependent photoresponse activity. <i>RSC Advances</i> , 2016, 6, 107151-107157.	3.6	22
36	Double-Sided Brush-Shaped TiO <sub>2</sub> Nanostructure Assemblies with Highly Ordered Nanowires for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 122-129.	8.0	59

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37	Synthesis of highly-ordered TiO <sub>2</sub> nanotube arrays with tunable sizes. Materials Research Express, 2014, 1, 035031.	1.6	5
38	A minky-dot-fabric-shaped composite of porous TiO <sub>2</sub> microsphere/reduced graphene oxide for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 16931-16938.	10.3	44
39	Efficient Thermolysis Route to Monodisperse Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystals with Controlled Shape and Structure. Scientific Reports, 2014, 4, 5086.	3.3	51