Chenyang Zha

List of Publications by Year
in descending order

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39 papers	1,402 citations	304743 22 h-index	345221 36 g-index
39 all docs	39 docs citations	39 times ranked	2203 citing authors

#	Article	IF	Citations
1	Conjugated Cobalt Polyphthalocyanine as the Elastic and Reprocessable Catalyst for Flexible Liâ€“CO₂ Batteries. Advanced Materials, 2019, 31, e1805484.	21.0	112
2	Ultra-dispersed molybdenum phosphide and phosphosulfide nanoparticles on hierarchical carbonaceous scaffolds for hydrogen evolution electrocatalysis. Applied Catalysis B: Environmental, 2019, 245, 656-661.	20.2	108
3	Rational Synthesis and Assembly of Ni₃S₄ Nanorods for Enhanced Electrochemical Sodium-Ion Storage. ACS Nano, 2018, 12, 1829-1836.	14.6	104
4	Highly reversible Na and K metal anodes enabled by carbon paper protection. Energy Storage Materials, 2018, 15, 8-13.	18.0	85
5	A facile and effective sulfur loading method: Direct drop of liquid Li2S8 on carbon coated TiO2 nanowire arrays as cathode towards commercializing lithium-sulfur battery. Energy Storage Materials, 2019, 17, 118-125.	18.0	72
6	Double-Sided Brush-Shaped TiO₂ Nanostructure Assemblies with Highly Ordered Nanowires for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 122-129.	8.0	59
7	Recent Advances in Two-Dimensional Magnets: Physics and Devices towards Spintronic Applications. Research, 2020, 2020, 1768918.	5.7	58
8	Selective electrocatalytic CO2 reduction enabled by SnO2 nanoclusters. Journal of Energy Chemistry, 2019, 37, 93-96.	12.9	52
9	Scalable preparation and stabilization of atomic-thick CoNi layered double hydroxide nanosheets for bifunctional oxygen electrocatalysis and rechargeable zinc-air batteries. Energy Storage Materials, 2019, 16, 24-30.	18.0	52
10	Efficient Thermolysis Route to Monodisperse Cu2ZnSnS4 Nanocrystals with Controlled Shape and Structure. Scientific Reports, 2014, 4, 5086.	3.3	51
11	Designing effective Si/Ag interface via controlled chemical etching for photoelectrochemical CO₂ reduction. Journal of Materials Chemistry A, 2018, 6, 21906-21912.	10.3	50
12	Promoting polysulfide redox reactions and improving electronic conductivity in lithiumâ€“sulfur batteries via hierarchical cathode materials of graphene-wrapped porous TiO₂ microspheres with exposed (001) facets. Journal of Materials Chemistry A, 2018, 6, 16574-16582.	10.3	47
13	Interfacial active fluorine site-induced electron transfer on TiO₂ (001) facets to enhance polysulfide redox reactions for better liquid Li₂S₆-Based lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 6431-6438.	10.3	45
14	A minky-dot-fabric-shaped composite of porous TiO₂microsphere/reduced graphene oxide for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 16931-16938.	10.3	44
15	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 Li2S6-based lithiumâ€“sulfur batteries. Energy Storage Materials, 2020, 26, 40-45.	18.0	43
16	Borophene-like boron subunits-inserted molybdenum framework of MoB2 enables stable and quick-acting Li2S6-based lithium-sulfur batteries. Energy Storage Materials, 2020, 32, 216-224.	18.0	42
17	Oneâ€Pot Synthesis of Pomegranateâ€Structured Fe₃O₄/Carbon Nanospheresâ€Doped Graphene Aerogel for Highâ€Rate Lithium Ion Batteries. Chemistry - A European Journal, 2016, 22, 4454-4459.	3.3	41
18	Dynamic Reversible Evolution of Solid Electrolyte Interface in Nonflammable Triethyl Phosphate Electrolyte Enabling Safe and Stable Potassiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	32

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19	Controlled chemical etching leads to efficient siliconâ€“bismuth interface for photoelectrochemical CO2 reduction to formate. Materials Today Chemistry, 2019, 11, 80-85.	3.5	31
20	Two-dimensional multimetallic sulfide nanosheets with multi-active sites to enhance polysulfide redox reactions in liquid Li2S6-based lithium-polysulfide batteries. Journal of Energy Chemistry, 2021, 52, 163-169.	12.9	28
21	Synergistically boosting the elementary reactions over multiheterogeneous ordered macroporous Mo₂C/NCâ€Ru for highly efficient alkaline hydrogen evolution. , 2022, 4, 856-866.		27
22	Triple-phase interfaces of graphene-like carbon clusters on antimony trisulfide nanowires enable high-loading and long-lasting liquid Li2S6-based lithium-sulfur batteries. Journal of Energy Chemistry, 2021, 59, 599-607.	12.9	26
23	Engineering the Phases and Heterostructures of Ultrathin Hybrid Perovskite Nanosheets. Advanced Materials, 2020, 32, e2002392.	21.0	25
24	Facet engineering of monodisperse PbS nanocrystals with shape- and facet-dependent photoresponse activity. RSC Advances, 2016, 6, 107151-107157.	3.6	22
25	Single-atom tailoring of Li2S to Form Li2S2 for building better lithium-sulfur batteries. Energy Storage Materials, 2022, 47, 79-86.	18.0	18
26	The presolvation strategy of Li₂S cathodes for lithiumâ€“sulfur batteries: a review. Journal of Materials Chemistry A, 2022, 10, 10326-10341.	10.3	17
27	Electrodeposition of a dendriteâ€free 3D Al anode for improving cycling of an aluminumâ€“graphite battery. , 2022, 4, 155-169.		16
28	Stimulating and Manipulating Robust Circularly Polarized Photoluminescence in Achiral Hybrid Perovskites. Nano Letters, 2022, 22, 3961-3968.	9.1	13
29	Tuning optical properties of monolayer MoS2 through the 0D/2D interfacial effect with C60 nanoparticles. Applied Surface Science, 2020, 523, 146371.	6.1	12
30	Deeply Repairing Surface States with Wet Chemistry Methods: Enhanced Performance in TiO₂ Nanowire Arraysâ€Based Optoelectronic Device. ChemistrySelect, 2017, 2, 10971-10978.	1.5	10
31	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
32	Anisotropic growth and structure-dependent photoresponse activity of multi-level one-dimensional PbS nano-architectures. RSC Advances, 2016, 6, 62226-62235.	3.6	9
33	â€˜Be waterâ€™ strategy of liquid lithium sulfide enables 0.2ÂV potential barrier for high-performance lithiumâ€“sulfur batteries. Materials Today Energy, 2021, 21, 100793.	4.7	8
34	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
35	In situ tailored strategy to remove capping agents from copper sulfide for building better lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 4015-4023.	10.3	7
36	High electrochemical activity of Li2S2 linking two-dimensional tungsten boride nanosheet enables high-loading and long-lasting lithium-sulfur batteries. Materials Today Energy, 2022, 25, 100970.	4.7	7

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37	Synthesis of highly-ordered TiO2nanotube arrays with tunable sizes. Materials Research Express, 2014, 1, 035031.	1.6	5
38	Liâ€“CO₂ Batteries: Conjugated Cobalt Polyphthalocyanine as the Elastic and Reprocessable Catalyst for Flexible Liâ€“CO₂ Batteries (Adv. Mater. 2/2019). Advanced Materials, 2019, 31, 1970014.	21.0	4
39	Three-dimensional nanocomposites of graphene/carbon nanotube matrix-embedded Si nanoparticles for superior lithium ion batteries. Advanced Materials Letters, 2017, 8, 206-211.	0.6	2