Ze Zhang

List of Publications by Year
in descending order

54 papers	2,160 citations	218592 26 h-index	233338 45 g-index
54 all docs	54 docs citations	54 times ranked	2535 citing authors

#	Article	IF	Citations
1	A Highâ€Efficiency Sulfur/Carbon Composite Based on 3D Graphene Nanosheet@Carbon Nanotube Matrix as Cathode for Lithiumâ€“Sulfur Battery. Advanced Energy Materials, 2017, 7, 1602543.	10.2	363
2	Free-Standing Porous Carbon Nanofiber/Carbon Nanotube Film as Sulfur Immobilizer with High Areal Capacity for Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2018, 10, 8749-8757.	4.0	129
3	Sulfur/nickel ferrite composite as cathode with high-volumetric-capacity for lithium-sulfur battery. Science China Materials, 2019, 62, 74-86.	3.5	86
4	Porous Carbon Paper as Interlayer to Stabilize the Lithium Anode for Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2016, 8, 31684-31694.	4.0	83
5	Highly sulfiphilic Ni-Fe bimetallic oxide nanoparticles anchored on carbon nanotubes enable effective immobilization and conversion of polysulfides for stable lithium-sulfur batteries. Carbon, 2019, 142, 32-39.	5.4	78
6	Multi-channel FeP@C octahedra anchored on reduced graphene oxide nanosheet with efficient performance for lithium-ion batteries. Carbon, 2018, 139, 477-485.	5.4	75
7	Encapsulating sulfur into a hybrid porous carbon/CNT substrate as a cathode for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 6827-6834.	5.2	73
8	Efficient Polysulfide Redox Enabled by Lattice-Distorted Ni₃Fe Intermetallic Electrocatalyst-Modified Separator for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 19572-19580.	4.0	72
9	Lithiophilic gel polymer electrolyte to stabilize the lithium anode for a quasi-solid-state lithiumâ€“sulfur battery. Journal of Materials Chemistry A, 2018, 6, 18627-18634.	5.2	69
10	Recyclable cobalt-molybdenum bimetallic carbide modified separator boosts the polysulfide adsorption-catalysis of lithium sulfur battery. Science China Materials, 2020, 63, 2443-2455.	3.5	69
11	Highâ€Entropy Spinel Oxide Nanofibers as Catalytic Sulfur Hosts Promise the High Gravimetric and Volumetric Capacities for Lithiumâ€“Sulfur Batteries. Energy and Environmental Materials, 2022, 5, 645-654.	7.3	69
12	Rational design of intertwined carbon nanotubes threaded porous CoP@carbon nanocubes as anode with superior lithium storage. Carbon, 2019, 142, 269-277.	5.4	58
13	Harmonizing the Electronic Structures on BiOI with Active Oxygen Vacancies toward Facetâ€Dependent Antibacterial Photodynamic Therapy. Advanced Functional Materials, 2020, 30, 2004108.	7.8	56
14	A Chemical Blowing Strategy to Fabricate Biomassâ€Derived Carbonâ€Aerogels with Grapheneâ€Like Nanosheet Structures for Highâ€Performance Supercapacitors. ChemSusChem, 2019, 12, 2462-2470.	3.6	53
15	Facile Synthesis of a â€œTwo-in-Oneâ€•Sulfur Host Featuring Metallic-Cobalt-Embedded N-Doped Carbon Nanotubes for Efficient Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 5968-5978.	4.0	52
16	In-built template synthesis of hierarchical porous carbon microcubes from biomass toward electrochemical energy storage. Carbon, 2019, 155, 1-8.	5.4	48
17	Manganese Monoxide/Biomass-Inherited Porous Carbon Nanostructure Composite Based on the High Water-Absorbent Agaric for Asymmetric Supercapacitor. ACS Sustainable Chemistry and Engineering, 2019, 7, 4284-4294.	3.2	45
18	Agaric-assisted synthesis of core-shell MnO@C microcubes as super-high- volumetric-capacity anode for lithium-ion batteries. Carbon, 2020, 162, 36-45.	5.4	43

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19	Near-infrared responsive sulfur vacancy-rich CuS nanosheets for efficient antibacterial activity via synergistic photothermal and photodynamic pathways. Journal of Colloid and Interface Science, 2022, 608, 2896-2906.	5.0	43
20	Moltenâ€Saltâ€Assisted Synthesis of Hierarchical Porous MnO@Biocarbon Composites as Promising Electrode Materials for Supercapacitors and Lithiumâ€Ion Batteries. ChemSusChem, 2019, 12, 283-290.	3.6	42
21	Boosting the polysulfide confinement in B/Nâ€“codoped hierarchically porous carbon nanosheets via Lewis acidâ€“base interaction for stable Liâ€“S batteries. Journal of Energy Chemistry, 2020, 51, 90-100.	7.1	38
22	Surface-seeding secondary growth for CoO@Co9S8 P-N heterojunction hollow nanocube encapsulated into graphene as superior anode toward lithium ion storage. Chemical Engineering Journal, 2021, 425, 130648.	6.6	37
23	The synergistic effect of enhanced photocatalytic activity and photothermal effect of oxygen-deficient Ni/reduced graphene oxide nanocomposite for rapid disinfection under near-infrared irradiation. Journal of Hazardous Materials, 2021, 419, 126462.	6.5	33
24	Ultrathin and Strong Electrospun Porous Fiber Separator. ACS Applied Energy Materials, 2018, 1, 4794-4803.	2.5	32
25	Cobaltâ€Tungsten Bimetallic Carbide Nanoparticles as Efficient Catalytic Material for Highâ€Performance Lithiumâ€“Sulfur Batteries. ChemSusChem, 2019, 12, 4866-4873.	3.6	32
26	Self-templated synthesis of hollow hierarchical porous olive-like carbon toward universal high-performance alkali (Li, Na, K)-ion storage. Carbon, 2021, 174, 317-324.	5.4	30
27	Enhanced chemisorption and catalytic conversion of polysulfides via CoFe@NC nanocubes modified separator for superior Liâ€“S batteries. Chemical Engineering Journal, 2022, 433, 133792.	6.6	26
28	Poly(vinylidene fluoride) Modified Commercial Paper as a Separator with Enhanced Thermal Stability and Electrolyte Affinity for Lithiumâ€ion Battery. Energy and Environmental Materials, 2021, 4, 664-670.	7.3	25
29	Efficient photothermal and photodynamic synergistic antibacterial therapy of Cu7S4 nanosheets regulated by facet engineering. Journal of Hazardous Materials, 2022, 432, 128662.	6.5	25
30	Renewable agaric-based hierarchically porous cocoon-like MnO/Carbon composites enable high-energy and high-rate Li-ion batteries. Electrochimica Acta, 2019, 322, 134757.	2.6	22
31	Neurotoxicity of Mn3O4 nanoparticles: Apoptosis and dopaminergic neurons damage pathway. Ecotoxicology and Environmental Safety, 2020, 188, 109909.	2.9	22
32	PDA modified commercial paper separator engineering with excellent lithiophilicity and mechanical strength for lithium metal batteries. Journal of Electroanalytical Chemistry, 2020, 868, 114195.	1.9	20
33	Areca-inspired core-shell structured MnO@C composite towards enhanced lithium-ion storage. Carbon, 2021, 184, 706-713.	5.4	19
34	High edge-nitrogen-doped porous carbon nanosheets with rapid pseudocapacitive mechanism for boosted potassium-ion storage. Carbon, 2022, 187, 302-309.	5.4	18
35	Design, synthesis and biological activity of diamide compounds based on 3â€substituent of the pyrazole ring^{â€}. Pest Management Science, 2022, 78, 2022-2033.	1.7	18
36	Novel agaric-derived olive-like yolkâ€“shell structured MnO@C composites for superior lithium storage. Chemical Communications, 2020, 56, 13201-13204.	2.2	17

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37	Needle-like cobalt phosphide arrays grown on carbon fiber cloth as a binder-free electrode with enhanced lithium storage performance. Chinese Chemical Letters, 2021, 32, 154-157.	4.8	15
38	Ultrathin Nanosheet-Assembled Flowerlike NiSe₂ Catalyst Boosts Sulfur Redox Reaction Kinetics for Liâ€“S Batteries. ACS Applied Energy Materials, 2021, 4, 3431-3438.	2.5	14
39	In Situ Constructing a Stable Solid Electrolyte Interface by Multifunctional Electrolyte Additive to Stabilize Lithium Metal Anodes for Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2022, 14, 17959-17967.	4.0	14
40	Chemosensitization effect of cerium oxide nanosheets by suppressing drug detoxification and efflux. Ecotoxicology and Environmental Safety, 2019, 167, 301-308.	2.9	13
41	Two for One: A Biomass Strategy for Simultaneous Synthesis of MnO₂ Microcubes and Porous Carbon Microcubes for High Performance Asymmetric Supercapacitors. ACS Sustainable Chemistry and Engineering, 2020, 8, 6333-6342.	3.2	13
42	Vacancy-Enhanced Photothermal Killing of Bacteria Mediated by Graphene Oxide. ACS Applied Bio Materials, 2021, 4, 5661-5668.	2.3	9
43	Tunable 2D tremella-derived carbon nanosheets with enhanced pseudocapacitance behavior for ultrafast potassium-ion storage. Science China Technological Sciences, 2021, 64, 2047-2056.	2.0	9
44	Vacancy-induced toxicity of CoSe₂ nanomaterials in rat lung macrophages. Nanotoxicology, 2020, 14, 968-984.	1.6	7
45	Aramid nanofiber reinforced cellulose paper for high-safety lithium-ion batteries. Cellulose, 2021, 28, 10579-10588.	2.4	7
46	SnS Nanosheets for Rapid and Effective Bacteria Sterilization Under Nearâ€infrared Irradiation. Chemistry - A European Journal, 2021, 27, 15434-15439.	1.7	7
47	Electronic Structure Modulation of Ag₂S by Vacancy Engineering for Efficient Bacterial Infection. Small, 2022, 18, e2107807.	5.2	6
48	Highly Stable LiI/Active Graphene Composite Cathodes for Efficient Lithium-Iodine Batteries. Journal of the Electrochemical Society, 2021, 168, 040522.	1.3	5
49	Less is more: biological effects of NiSe2/rGO nanocomposites with low dose provide new insight for risk assessment. Journal of Hazardous Materials, 2021, 415, 125605.	6.5	5
50	Recent advances in biological applications of nanomaterials through defect engineering. Science of the Total Environment, 2022, 816, 151647.	3.9	4
51	Cobaltâ€Catalyzed Intermolecular Hydroamination of Unactivated Alkenes Using NFSI as Nitrogen Source. Chinese Journal of Chemistry, 0, , .	2.6	4
52	Co-W bimetallic carbides as sulfur host for high-performance lithiumâ€“sulfur batteries. Journal of Materials Science: Materials in Electronics, 2021, 32, 16577-16588.	1.1	3
53	Design, synthesis, and insecticidal evaluation of novel anthranilic diamides of <scp>Nâ€pyridylpyrazole</scp> derivatives containing <scp>3â€thioethers</scp>. Journal of Heterocyclic Chemistry, 2022, 59, 820-831.	1.4	3
54	A dual-regulation strategy of B/N codoped CNT-encapsulated Ni nanoparticles as a catalytic host and separator coating promises high-performance Li-S batteries. Science China Technological Sciences, 2022, 65, 1567-1577.	2.0	2