

Tao Chen

List of Publications by Year in descending order

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43
papers

5,470
citations

109321

35
h-index

254184

43
g-index

43
all docs

43
docs citations

43
times ranked

7849
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrowetting-driven droplet shrinkage with tunable focus property. Optoelectronics Letters, 2022, 18, 166-169.	0.8	1
2	Unveiling the Synergistic Effect of Ferroelectric Polarization and Domain Configuration for Reversible Zinc Metal Anodes. Advanced Science, 2022, 9, e2105980.	11.2	25
3	Synergistic Cation/Anion Regulation of Polysulfides by Zwitterionic Polymer Binder for Lithium/Sulfur Batteries. Advanced Functional Materials, 2022, 32, .	14.9	27
4	Superstretchable, thermostable and ultrahigh-loading lithium/sulfur batteries based on nanostructural gel cathodes and gel electrolytes. Nano Energy, 2021, 80, 105510.	16.0	51
5	Perovskite Quantum Dots Exhibiting Strong Hole Extraction Capability for Efficient Inorganic Thin Film Solar Cells. Cell Reports Physical Science, 2020, 1, 100001.	5.6	28
6	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. Chemistry of Materials, 2019, 31, 7565-7573.	6.7	73
7	Chelation-assisted formation of multi-yolk-shell Co ₄ N@carbon nanoboxes for self-discharge-suppressed high-performance Li/Se ₂ batteries. Journal of Materials Chemistry A, 2019, 7, 20302-20309.	10.3	29
8	Hybrid Mg/Li-ion batteries enabled by Mg ²⁺ /Li ⁺ co-intercalation in VS ₄ nanodendrites. Energy Storage Materials, 2019, 23, 741-748.	18.0	69
9	High-performance Li-ion capacitor based on black-TiO ₂ -x/graphene aerogel anode and biomass-derived microporous carbon cathode. Nano Research, 2019, 12, 1713-1719.	10.4	64
10	The dealloying/lithiation/delithiation/re-alloying mechanism of a breithauptite (NiSb) nanocrystal embedded nanofabric anode for flexible Li-ion batteries. Nanoscale, 2019, 11, 8803-8811.	5.6	24
11	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium/Sulfur Batteries. ACS Nano, 2018, 12, 4868-4876.	14.6	222
12	High energy density hybrid lithium-ion capacitor enabled by Co ₃ ZnC@N-doped carbon nanopolyhedra anode and microporous carbon cathode. Energy Storage Materials, 2018, 14, 246-252.	18.0	120
13	Walnut-Like Multicore-Shell MnO Encapsulated Nitrogen-Rich Carbon Nanocapsules as Anode Material for Long-Cycling and Soft-Packed Lithium-Ion Batteries. Advanced Functional Materials, 2018, 28, 1800003.	14.9	191
14	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. Journal of Materials Chemistry A, 2018, 6, 2047-2052.	10.3	85
15	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO ₂ Nanoflakes for High-Performance Rechargeable Magnesium Batteries. ACS Nano, 2018, 12, 12492-12502.	14.6	116
16	Facile preparation of ultrafine Ti ₄ O ₇ nanoparticle-embedded porous carbon for high areal capacity lithium/sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 20083-20092.	10.3	35
17	Highly Branched VS ₄ Nanodendrites with 1D Atomic-Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. Advanced Materials, 2018, 30, e1802563.	21.0	187
18	Three-dimensional spongy framework as superlyophilic, strongly absorbing, and electrocatalytic polysulfide reservoir layer for high-rate and long-cycling lithium-sulfur batteries. Nano Research, 2018, 11, 6436-6446.	10.4	38

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19	Ultrahigh rate capability and ultralong cycling stability of sodium-ion batteries enabled by wrinkled black titania nanosheets with abundant oxygen vacancies. <i>Nano Energy</i> , 2018, 53, 91-96.	16.0	44
20	Recycling PM2.5 carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. <i>Nano Energy</i> , 2017, 33, 229-237.	16.0	55
21	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. <i>Nanoscale</i> , 2017, 9, 1972-1977.	5.6	42
22	Metallic and polar Co ₉ S ₈ inlaid carbon hollow nanopolyhedra as efficient polysulfide mediator for lithium-sulfur batteries. <i>Nano Energy</i> , 2017, 38, 239-248.	16.0	314
23	Highly Efficient Retention of Polysulfides in Sea Urchin-Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2017, 17, 437-444.	9.1	223
24	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , 2017, 9, 1237-1243.	5.6	154
25	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow Co ₃ S ₄ Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 12710-12715.	13.7	456
26	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. <i>Nanoscale</i> , 2017, 9, 11841-11845.	5.6	75
27	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2017, 17, 7839-7846.	9.1	206
28	High-Performance Li-Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25232-25238.	8.0	50
29	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017, 11, 7274-7283.	14.6	213
30	Emerging non-lithium ion batteries. <i>Energy Storage Materials</i> , 2016, 4, 103-129.	18.0	252
31	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15041-15048.	10.3	35
32	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26834-26841.	8.0	52
33	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , 2016, 8, 17911-17918.	5.6	57
34	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15829-15832.	13.7	899
35	Multi-yolk-shell copper oxide@carbon octahedra as high-stability anodes for lithium-ion batteries. <i>Nano Energy</i> , 2016, 20, 305-314.	16.0	107
36	Engineering hollow mesoporous silica nanocontainers with molecular switches for continuous self-healing anticorrosion coating. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9510-9516.	10.3	89

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37	Mechanized silica nanoparticles based on reversible bistable [2]pseudorotaxanes as supramolecular nanovalves for multistage pH-controlled release. <i>Chemical Communications</i> , 2014, 50, 5068-5071.	4.1	43
38	Graphene quantum dot-capped mesoporous silica nanoparticles through an acid-cleavable acetal bond for intracellular drug delivery and imaging. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4979.	5.8	88
39	Acid and Alkaline Dual Stimuli-Responsive Mechanized Hollow Mesoporous Silica Nanoparticles as Smart Nanocontainers for Intelligent Anticorrosion Coatings. <i>ACS Nano</i> , 2013, 7, 11397-11408.	14.6	234
40	Controlled release of cargo molecules from hollow mesoporous silica nanoparticles based on acid and base dual-responsive cucurbit[7]uril pseudorotaxanes. <i>Chemical Communications</i> , 2013, 49, 6555.	4.1	55
41	Experimental and Theoretical Study on the Inhibition Performances of Quinoxaline and Its Derivatives for the Corrosion of Mild Steel in Hydrochloric Acid. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6377-6386.	3.7	165
42	An intelligent anticorrosion coating based on pH-responsive supramolecular nanocontainers. <i>Nanotechnology</i> , 2012, 23, 505705.	2.6	96
43	pH-responsive nanovalves based on hollow mesoporous silica spheres for controlled release of corrosion inhibitor. <i>Nanotechnology</i> , 2012, 23, 235605.	2.6	81