

# Tao Chen

## List of Publications by Citations

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42  
papers

4,234  
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33  
h-index

43  
g-index

43  
ext. papers

4,884  
ext. citations

12  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
42	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15829-15832	16.4	700
41	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow CoS Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12710-12715	16.4	364
40	Metallic and polar Co <sub>9</sub> S <sub>8</sub> inlaid carbon hollow nanopolyhedra as efficient polysulfide mediator for lithium-sulfur batteries. <i>Nano Energy</i> , <b>2017</b> , 38, 239-248	17.1	241
39	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> , <b>2017</b> , 17, 437-444	11.5	194
38	Acid and alkaline dual stimuli-responsive mechanized hollow mesoporous silica nanoparticles as smart nanocontainers for intelligent anticorrosion coatings. <i>ACS Nano</i> , <b>2013</b> , 7, 11397-408	16.7	194
37	Emerging non-lithium ion batteries. <i>Energy Storage Materials</i> , <b>2016</b> , 4, 103-129	19.4	180
36	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 4868-4876	16.7	177
35	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 7839-7846	11.5	172
34	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 7274-7283	16.7	167
33	Walnut-Like Multicore-Shell MnO Encapsulated Nitrogen-Rich Carbon Nanocapsules as Anode Material for Long-Cycling and Soft-Packed Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800003	15.6	148
32	Experimental and Theoretical Study on the Inhibition Performances of Quinoxaline and Its Derivatives for the Corrosion of Mild Steel in Hydrochloric Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 6377-6386	3.9	147
31	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , <b>2017</b> , 9, 1237-1243	7.7	121
30	Highly Branched VS Nanodendrites with 1D Atomic-Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802563	24	119
29	Multi-yolk-shell copper oxide@carbon octahedra as high-stability anodes for lithium-ion batteries. <i>Nano Energy</i> , <b>2016</b> , 20, 305-314	17.1	93
28	High energy density hybrid lithium-ion capacitor enabled by Co <sub>3</sub> ZnC@N-doped carbon nanopolyhedra anode and microporous carbon cathode. <i>Energy Storage Materials</i> , <b>2018</b> , 14, 246-252	19.4	88
27	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> , <b>2014</b> , 2, 4979-4982	7.3	85
26	An intelligent anticorrosion coating based on pH-responsive supramolecular nanocontainers. <i>Nanotechnology</i> , <b>2012</b> , 23, 505705	3.4	85

25	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 12492-12502	16.7	85
24	Engineering hollow mesoporous silica nanocontainers with molecular switches for continuous self-healing anticorrosion coating. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9510-9516	13	65
23	pH-responsive nanovalves based on hollow mesoporous silica spheres for controlled release of corrosion inhibitor. <i>Nanotechnology</i> , <b>2012</b> , 23, 235605	3.4	62
22	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2047-2052	13	56
21	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. <i>Nanoscale</i> , <b>2017</b> , 9, 11841-11845	7.7	55
20	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , <b>2016</b> , 8, 17911-17918	7.7	54
19	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> , <b>2013</b> , 49, 6555-7	5.8	52
18	Recycling PM2.5 carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. <i>Nano Energy</i> , <b>2017</b> , 33, 229-237	17.1	48
17	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7565-7573	9.6	45
16	Hybrid Mg/Li-ion batteries enabled by Mg <sup>2+</sup> /Li <sup>+</sup> co-intercalation in VS <sub>4</sub> nanodendrites. <i>Energy Storage Materials</i> , <b>2019</b> , 23, 741-748	19.4	43
15	High-performance Li-ion capacitor based on black-TiO <sub>2</sub> -x/graphene aerogel anode and biomass-derived microporous carbon cathode. <i>Nano Research</i> , <b>2019</b> , 12, 1713-1719	10	42
14	Mechanized silica nanoparticles based on reversible bistable [2]pseudorotaxanes as supramolecular nanovalves for multistage pH-controlled release. <i>Chemical Communications</i> , <b>2014</b> , 50, 5068-71	5.8	40
13	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26834-26841	9.5	40
12	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. <i>Nanoscale</i> , <b>2017</b> , 9, 1972-1977	7.7	36
11	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> , <b>2018</b> , 53, 91-96	17.1	34
10	High-Performance Li-Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25232-25238	9.5	33
9	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15041-15048	13	30
8	Three-dimensional spongy framework as superlyophilic, strongly absorbing, and electrocatalytic polysulfide reservoir layer for high-rate and long-cycling lithium-sulfur batteries. <i>Nano Research</i> , <b>2018</b> , 11, 6436-6446	10	29

7	Facile preparation of ultrafine Ti4O7 nanoparticle-embedded porous carbon for high areal capacity lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20083-20092	13	26
6	Superstretchable, thermostable and ultrahigh-loading lithium-sulfur batteries based on nanostructural gel cathodes and gel electrolytes. <i>Nano Energy</i> , <b>2021</b> , 80, 105510	17.1	25
5	Chelation-assisted formation of multi-yolk-shell Co4N@carbon nanoboxes for self-discharge-suppressed high-performance Li-FeS2 batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20302-20309	13	22
4	Perovskite Quantum Dots Exhibiting Strong Hole Extraction Capability for Efficient Inorganic Thin Film Solar Cells. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100001	6.1	18
3	The dealloying-lithiation/delithiation-realloying mechanism of a breithauptite (NiSb) nanocrystal embedded nanofabric anode for flexible Li-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 8803-8811	7.7	16
2	Unveiling the Synergistic Effect of Ferroelectric Polarization and Domain Configuration for Reversible Zinc Metal Anodes.. <i>Advanced Science</i> , <b>2022</b> , e2105980	13.6	3
1	Electrowetting-driven droplet shrinkage with tunable focus property. <i>Optoelectronics Letters</i> , <b>2022</b> , 18, 166-169	0.7	0