Tao Chen

List of Publications by Year in Descending Order

42 papers	4,234 citations	33 h-index	43 g-index
43 ext. papers	4,884 ext. citations	12 avg, IF	5.43 L-index

#	Paper	IF	Citations
42	Electrowetting-driven droplet shrinkage with tunable focus property. *Optoelectronics Letters*, **2022**, 18, 166-169	0.7	0
41	Unveiling the Synergistic Effect of Ferroelectric Polarization and Domain Configuration for Reversible Zinc Metal Anodes.. *Advanced Science*, **2022**, e2105980	13.6	3
40	Superstretchable, thermostable and ultrahigh-loading lithium–sulfur batteries based on nanostructural gel cathodes and gel electrolytes. *Nano Energy*, **2021**, 80, 105510	17.1	25
39	Perovskite Quantum Dots Exhibiting Strong Hole Extraction Capability for Efficient Inorganic Thin Film Solar Cells. *Cell Reports Physical Science*, **2020**, 1, 100001	6.1	18
38	Hybrid Mg/Li-ion batteries enabled by Mg2+/Li+ co-intercalation in VS4 nanodendrites. *Energy Storage Materials*, **2019**, 23, 741-748	19.4	43
37	High-performance Li-ion capacitor based on black-TiO2-x/graphene aerogel anode and biomass-derived microporous carbon cathode. *Nano Research*, **2019**, 12, 1713-1719	10	42
36	The dealloying-lithiation/delithiation-realloying mechanism of a breithauptite (NiSb) nanocrystal embedded nanofabric anode for flexible Li-ion batteries. *Nanoscale*, **2019**, 11, 8803-8811	7.7	16
35	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. *Chemistry of Materials*, **2019**, 31, 7565-7573	9.6	45
34	Chelation-assisted formation of multi-yolk–shell Co4N@carbon nanoboxes for self-discharge-suppressed high-performance Li–SeS2 batteries. *Journal of Materials Chemistry A*, **2019**, 7, 20302-20309	13	22
33	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	16.7	177
32	High energy density hybrid lithium-ion capacitor enabled by Co3ZnC@N-doped carbon nanopolyhedra anode and microporous carbon cathode. *Energy Storage Materials*, **2018**, 14, 246-252	19.4	88
31	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	15.6	148
30	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	29
29	Ultrahigh rate capability and ultralong cycling stability of sodium-ion batteries enabled by wrinkled black titania nanosheets with abundant oxygen vacancies. *Nano Energy*, **2018**, 53, 91-96	17.1	34
28	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. *Journal of Materials Chemistry A*, **2018**, 6, 2047-2052	13	56
27	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. *ACS Nano*, **2018**, 12, 12492-12502	16.7	85
26	Facile preparation of ultrafine Ti4O7 nanoparticle-embedded porous carbon for high areal capacity lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2018**, 6, 20083-20092	13	26

25	Highly Branched VS Nanodendrites with 1D Atomic-Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. *Advanced Materials*, **2018**, 30, e1802563	24	119
24	Recycling PM2.5 carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. *Nano Energy*, **2017**, 33, 229-237	17.1	48
23	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. *Nanoscale*, **2017**, 9, 1972-1977	7.7	36
22	Metallic and polar Co 9 S 8 inlaid carbon hollow nanopolyhedra as efficient polysulfide mediator for lithium–sulfur batteries. *Nano Energy*, **2017**, 38, 239-248	17.1	241
21	Highly Efficient Retention of Polysulfides in "Sea Urchin"-Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithium-Sulfur Batteries. *Nano Letters*, **2017**, 17, 437-444	11.5	194
20	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. *Nanoscale*, **2017**, 9, 1237-1243	7.7	121
19	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow CoS Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. *Journal of the American Chemical Society*, **2017**, 139, 12710-12715	16.4	364
18	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. *Nanoscale*, **2017**, 9, 11841-11845	7.7	55
17	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. *Nano Letters*, **2017**, 17, 7839-7846	11.5	172
16	High-Performance Li-Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. *ACS Applied Materials & Interfaces*, **2017**, 9, 25232-25238	9.5	33
15	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. *ACS Nano*, **2017**, 11, 7274-7283	16.7	167
14	All-Inorganic Perovskite Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 15829-15832	16.4	700
13	Multi-yolk-shell copper oxide@carbon octahedra as high-stability anodes for lithium-ion batteries. *Nano Energy*, **2016**, 20, 305-314	17.1	93
12	Emerging non-lithium ion batteries. *Energy Storage Materials*, **2016**, 4, 103-129	19.4	180
11	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. *Journal of Materials Chemistry A*, **2016**, 4, 15041-15048	13	30
10	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. *ACS Applied Materials & Interfaces*, **2016**, 8, 26834-26841	9.5	40
9	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. *Nanoscale*, **2016**, 8, 17911-17918	7.7	54
8	Engineering hollow mesoporous silica nanocontainers with molecular switches for continuous self-healing anticorrosion coating. *Journal of Materials Chemistry A*, **2015**, 3, 9510-9516	13	65

7	Mechanized silica nanoparticles based on reversible bistable [2]pseudorotaxanes as supramolecular nanovalves for multistage pH-controlled release. *Chemical Communications*, **2014**, 50, 5068-71	5.8	40
6	Graphene quantum dot-capped mesoporous silica nanoparticles through an acid-cleavable acetal bond for intracellular drug delivery and imaging. *Journal of Materials Chemistry B*, **2014**, 2, 4979-4982	7.3	85
5	Acid and alkaline dual stimuli-responsive mechanized hollow mesoporous silica nanoparticles as smart nanocontainers for intelligent anticorrosion coatings. *ACS Nano*, **2013**, 7, 11397-408	16.7	194
4	Controlled release of cargo molecules from hollow mesoporous silica nanoparticles based on acid and base dual-responsive cucurbit[7]uril pseudorotaxanes. *Chemical Communications*, **2013**, 49, 6555-7	5.8	52
3	Experimental and Theoretical Study on the Inhibition Performances of Quinoxaline and Its Derivatives for the Corrosion of Mild Steel in Hydrochloric Acid. *Industrial & Engineering Chemistry Research*, **2012**, 51, 6377-6386	3.9	147
2	An intelligent anticorrosion coating based on pH-responsive supramolecular nanocontainers. *Nanotechnology*, **2012**, 23, 505705	3.4	85
1	pH-responsive nanovalves based on hollow mesoporous silica spheres for controlled release of corrosion inhibitor. *Nanotechnology*, **2012**, 23, 235605	3.4	62