

# Tianyi Wang

## List of Publications by Year in descending order

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25  
papers

1,892  
citations

471509

17  
h-index

580821

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27  
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docs citations

27  
times ranked

2025  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Lithium-Sulfur Batteries: From Academic Research to Commercial Viability. <i>Advanced Materials</i> , 2021, 33, e2003666.	21.0	357
2	Deep-Eutectic-Solvent-Based Self-Healing Polymer Electrolyte for Safe and Long-Life Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9134-9142.	13.8	292
3	Electrode Materials for Sodium-Ion Batteries: Considerations on Crystal Structures and Sodium Storage Mechanisms. <i>Electrochemical Energy Reviews</i> , 2018, 1, 200-237.	25.5	213
4	Noble metal-based materials in high-performance supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 33-51.	6.0	151
5	<i>In Situ</i> Construction of Protective Films on Zn Metal Anodes via Natural Protein Additives Enabling High-Performance Zinc Ion Batteries. <i>ACS Nano</i> , 2022, 16, 11392-11404.	14.6	137
6	Immunizing lithium metal anodes against dendrite growth using protein molecules to achieve high energy batteries. <i>Nature Communications</i> , 2020, 11, 5429.	12.8	129
7	Tunable porous carbon spheres for high-performance rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12816-12841.	10.3	82
8	Fabrication Methods of Porous Carbon Materials and Separator Membranes for Lithium-Sulfur Batteries: Development and Future Perspectives. <i>Small Methods</i> , 2017, 1, 1700089.	8.6	69
9	Synthetic methods and electrochemical applications for transition metal phosphide nanomaterials. <i>RSC Advances</i> , 2016, 6, 87188-87212.	3.6	58
10	Desulfurization through Photocatalytic Oxidation: A Critical Review. <i>ChemSusChem</i> , 2021, 14, 492-511.	6.8	51
11	Metal-organic frameworks as separators and electrolytes for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7301-7316.	10.3	45
12	Recent progress in quasi-solid and solid polymer electrolytes for multivalent metal-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24175-24194.	10.3	45
13	Dendrite-Free Sodium Metal Batteries Enabled by the Release of Contact Strain on Flexible and Sodiophilic Matrix. <i>Nano Letters</i> , 2020, 20, 6112-6119.	9.1	42
14	Deep-Eutectic-Solvent-Based Self-Healing Polymer Electrolyte for Safe and Long-Life Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 9219-9227.	2.0	42
15	One-step synthesis of nickel cobalt sulphides particles: tuning the composition for high performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 58916-58924.	3.6	39
16	Flexible sodium-ion capacitors boosted by high electrochemically-reactive and structurally-stable Sb <sub>2</sub> S <sub>3</sub> nanowire/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene film anodes. <i>Nano Research</i> , 2023, 16, 5592-5600.	10.4	20
17	Nitrogen Doped Carbon Coated Bi Microspheres as High-performance Anode for Half and Full Sodium Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2314-2320.	3.3	19
18	Review and prospects for room-temperature sodium-sulfur batteries. <i>Materials Research Letters</i> , 2022, 10, 691-719.	8.7	19

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19	Bismuth Nanoparticles Anchored on Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Nanosheets for High-Performance Sodium-Ion Batteries. Chemistry - an Asian Journal, 2021, 16, 3774-3780.	3.3	17
20	Silk Fibroin Coating Enables Dendrite-free Zinc Anode for Long-Life Aqueous Zinc-Ion Batteries. ChemSusChem, 2022, 15, .	6.8	15
21	Removal of extremely low concentration cobalt by intercalation composite material of carbon nitride/titanium dioxide. Journal of Hazardous Materials, 2021, 415, 125680.	12.4	13
22	Reversible pH Stimulus-Response Material Based on Amphiphilic Block Polymer Self-Assembly and Its Electrochemical Application. Materials, 2016, 9, 478.	2.9	11
23	Development of Small-Scale Monitoring and Modeling Strategies for Safe Lithium-Ion Batteries. Batteries and Supercaps, 2022, 5, .	4.7	8
24	Construction of a 2D Layered Phosphorus-Doped Graphitic Carbon Nitride/BiOBr Heterojunction for Highly Efficient Photocatalytic Disinfection. Chemistry - an Asian Journal, 2022, 17, .	3.3	8
25	Effect of sulfate in mineral precursor on capacitance behavior of prepared activated carbon. Journal of Solid State Electrochemistry, 2016, 20, 3437-3445.	2.5	7