

Tianyu Li

List of Publications by Year in descending order

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1279
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#	ARTICLE	IF	CITATIONS
1	Mechanoadaptive morphing gel electrolyte enables flexible and fast-charging Zn-ion batteries with outstanding dendrite suppression performance. <i>Nano Research</i> , 2022, 15, 2030-2039.	10.4	45
2	A low-cost bromine-fixed additive enables a high capacity retention zinc-bromine batteries. <i>Journal of Energy Chemistry</i> , 2022, 65, 89-93.	12.9	21
3	Crystal field-induced lattice expansion upon reversible oxygen uptake/release in $\text{YbMnFe}_2\text{O}_4$. <i>Materials Advances</i> , 2022, 3, 1087-1100.	5.4	2
4	Gel Electrolyte Constructing Zn (002) Deposition Crystal Plane Toward Highly Stable Zn Anode. <i>Advanced Science</i> , 2022, 9, e2104832.	11.2	119
5	Mesoporous perovskite titanates via hydrothermal conversion. <i>Chemical Communications</i> , 2022, 58, 783-786.	4.1	0
6	Antifreezing Hydrogel Electrolyte with Ternary Hydrogen Bonding for High-Performance Zinc-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2110140.	21.0	186
7	Machine learning for flow batteries: opportunities and challenges. <i>Chemical Science</i> , 2022, 13, 4740-4752.	7.4	15
8	Sb-Doped high-voltage LiCoO_2 enabled improved structural stability and rate capability for high-performance Li-ion batteries. <i>Chemical Communications</i> , 2022, 58, 5379-5382.	4.1	4
9	A High Energy Density Bromine-Based Flow Battery with Two-Electron Transfer. <i>ACS Energy Letters</i> , 2022, 7, 1034-1039.	17.4	15
10	High-energy-density aqueous zinc-based hybrid supercapacitor-battery with uniform zinc deposition achieved by multifunctional decoupled additive. <i>Nano Energy</i> , 2022, 96, 107120.	16.0	24
11	Morphology Selection Kinetics of Li Sphere via Interface Regulation at High Current Density for Pragmatic Li Metal Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	10
12	Titania Nanomaterials for Sarin Decomposition: Understanding Fundamentals. <i>ACS Applied Nano Materials</i> , 2022, 5, 6659-6670.	5.0	2
13	Regulating the Molecular Interactions in Polymer Binder for High-Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2022, 16, 8449-8460.	14.6	52
14	A C_{60} Low-Temperature Aqueous Lithium Ion-Bromine Battery with High Power Density Enabled by Electrolyte Design. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	11
15	Spectroscopic studies of methyl paraoxon decomposition over mesoporous Ce-doped titanias for toxic chemical filtration. <i>Journal of Hazardous Materials</i> , 2022, 438, 129536.	12.4	3
16	N-doped hierarchical porous carbon derived from bismuth salts decorated ZIF8 as a highly efficient electrocatalyst for CO_2 reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 320-326.	10.3	10
17	A data-driven and DFT assisted theoretic guide for membrane design in flow batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14545-14552.	10.3	9
18	A highly reversible zinc deposition for flow batteries regulated by critical concentration induced nucleation. <i>Energy and Environmental Science</i> , 2021, 14, 4077-4084.	30.8	58

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19	The Mystery from Tetragonal NaVPO ₄ F to Monoclinic NaVPO ₄ F: Crystal Presentation, Phase Conversion, and Na ⁺ Storage Kinetics. <i>Advanced Energy Materials</i> , 2021, 11, 2100627.	19.5	11
20	Endogenous Symbiotic Li ₃ N/Cellulose Skin to Extend the Cycle Life of Lithium Anode. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11718-11724.	13.8	74
21	Endogenous Symbiotic Li ₃ N/Cellulose Skin to Extend the Cycle Life of Lithium Anode. <i>Angewandte Chemie</i> , 2021, 133, 11824-11830.	2.0	0
22	Multifunctional Carbon Felt Electrode with Na ⁺ Rich Defects Enables a Long-Cycle Zinc-Bromine Flow Battery with Ultrahigh Power Density. <i>Advanced Functional Materials</i> , 2021, 31, 2102913.	14.9	42
23	Dendrite-Free Zinc-Based Battery with High Areal Capacity via the Region-Induced Deposition Effect of Turing Membrane. <i>Journal of the American Chemical Society</i> , 2021, 143, 13135-13144.	13.7	73
24	Immunizing Aqueous Zn Batteries against Dendrite Formation and Side Reactions at Various Temperatures via Electrolyte Additives. <i>Small</i> , 2021, 17, e2103195.	10.0	172
25	A highly selective porous composite membrane with bromine capturing ability for a bromine-based flow battery. <i>Materials Today Energy</i> , 2021, 21, 100763.	4.7	14
26	A Coral-Like FeP@NC Anode with Increasing Cycle Capacity for Sodium-Ion and Lithium-Ion Batteries Induced by Particle Refinement. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25013-25019.	13.8	66
27	A Coral-Like FeP@NC Anode with Increasing Cycle Capacity for Sodium-Ion and Lithium-Ion Batteries Induced by Particle Refinement. <i>Angewandte Chemie</i> , 2021, 133, 25217-25223.	2.0	9
28	Phenylene-Bridged Bispyridinium with High Capacity and Stability for Aqueous Flow Batteries. <i>Advanced Materials</i> , 2021, 33, e2005839.	21.0	63
29	Fluorinated Graphite (FG)-Modified Li-S Batteries with Superhigh Primary Specific Capacity and Improved Cycle Stability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52717-52726.	8.0	4
30	Understanding Dimethyl Methylphosphonate Adsorption and Decomposition on Mesoporous CeO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54597-54609.	8.0	16
31	A highly reversible neutral zinc/manganese battery for stationary energy storage. <i>Energy and Environmental Science</i> , 2020, 13, 135-143.	30.8	180
32	Affinity Laminated Chromatography Membrane Built-in Electrodes for Suppressing Polysulfide Shuttling in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903233.	19.5	14
33	Porous Membrane with High Selectivity for Alkaline Quinone-Based Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48533-48541.	8.0	18
34	Membranes with Well-Defined Selective Layer Regulated by Controlled Solvent Diffusion for High Power Density Flow Battery. <i>Advanced Energy Materials</i> , 2020, 10, 2001382.	19.5	54
35	Low-Cost Titanium-Bromine Flow Battery with Ultrahigh Cycle Stability for Grid-Scale Energy Storage. <i>Advanced Materials</i> , 2020, 32, e2005036.	21.0	28
36	Cost, performance prediction and optimization of a vanadium flow battery by machine-learning. <i>Energy and Environmental Science</i> , 2020, 13, 4353-4361.	30.8	59

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37	Stop Four Gaps with One Bush: Versatile Hierarchical Polybenzimidazole Nanoporous Membrane for Highly Durable Li-S Battery. ACS Applied Materials & Interfaces, 2020, 12, 55809-55819.	8.0	14
38	An aqueous hybrid electrolyte for low-temperature zinc-based energy storage devices. Energy and Environmental Science, 2020, 13, 3527-3535.	30.8	442
39	Structural studies of the perovskite series $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ during chemical looping with methane. Chemical Communications, 2019, 55, 4929-4932.	4.1	19
40	Molecular Dynamics Studies on Liquid/Vapor Interface Properties and Structures of 1-Ethyl-3-methylimidazolium Dimethylphosphate-Water. Journal of Physical Chemistry B, 2017, 121, 3087-3098.	2.6	4
41	Ionic liquid-assisted synthesis of Cu_7Te_4 ultrathin nanosheets with enhanced electrocatalytic activity for water oxidation. Nano Energy, 2017, 41, 780-787.	16.0	42