

# Liyuan Zhang

## List of Publications by Year in descending order

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39  
papers

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citations

257450

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289244

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g-index

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all docs

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docs citations

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times ranked

3890  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pillared Structure Design of MXene with Ultralarge Interlayer Spacing for High-Performance Lithium-Ion Capacitors. ACS Nano, 2017, 11, 2459-2469.	14.6	700
2	Sn <sup>4+</sup> Ion Decorated Highly Conductive Ti <sub>3</sub> C <sub>2</sub> MXene: Promising Lithium-Ion Anodes with Enhanced Volumetric Capacity and Cyclic Performance. ACS Nano, 2016, 10, 2491-2499.	14.6	632
3	3D TiC/C Core/Shell Nanowire Skeleton for Dendrite-Free and Long-Life Lithium Metal Anode. Advanced Energy Materials, 2018, 8, 1702322.	19.5	237
4	In Situ Solid Electrolyte Interphase from Spray Quenching on Molten Li: A New Way to Construct High-Performance Lithium-Metal Anodes. Advanced Materials, 2019, 31, e1806470.	21.0	133
5	Exploring Self-Healing Liquid Na-K Alloy for Dendrite-Free Electrochemical Energy Storage. Advanced Materials, 2018, 30, e1804011.	21.0	112
6	Straw-Brick-Like Carbon Fiber Cloth/Lithium Composite Electrode as an Advanced Lithium Metal Anode. Small Methods, 2018, 2, 1800035.	8.6	106
7	Original growth mechanism for ultra-stable dendrite-free potassium metal electrode. Nano Energy, 2019, 62, 367-375.	16.0	93
8	Insight into the electrolyte strategies for aqueous zinc ion batteries. Coordination Chemistry Reviews, 2022, 452, 214297.	18.8	92
9	Hydrogen Bond-Assisted Ultra-Stable and Fast Aqueous NH <sub>4</sub> <sup>+</sup> Storage. Nano-Micro Letters, 2021, 13, 139.	27.0	77
10	Prussian Blue Analogues in Aqueous Batteries and Desalination Batteries. Nano-Micro Letters, 2021, 13, 166.	27.0	73
11	Copper hexacyanoferrate as ultra-high rate host for aqueous ammonium ion storage. Chemical Engineering Journal, 2021, 421, 127767.	12.7	64
12	One-pot Biotemplate Synthesis of FeS <sub>2</sub> Decorated Sulfur-doped Carbon Fiber as High Capacity Anode for Lithium-ion Batteries. Electrochimica Acta, 2016, 209, 201-209.	5.2	63
13	Large-scale synthesis of high-quality lithium-graphite hybrid anodes for mass-controllable and cycling-stable lithium metal batteries. Energy Storage Materials, 2018, 15, 31-36.	18.0	59
14	Insights into host materials for aqueous proton batteries: structure, mechanism and prospect. Nano Energy, 2021, 89, 106400.	16.0	55
15	Interlayer gap widened TiS <sub>2</sub> for highly efficient sodium-ion storage. Journal of Materials Science and Technology, 2022, 107, 64-69.	10.7	50
16	Non-Newtonian Fluid State Na Alloy for a Stretchable Energy Storage Device. Small Methods, 2019, 3, 1900383.	8.6	39
17	Sulfur synchronously electrodeposited onto exfoliated graphene sheets as a cathode material for advanced lithium-sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 16513-16519.	10.3	37
18	High-content of sulfur uniformly embedded in mesoporous carbon: a new electrodeposition synthesis and an outstanding lithium-sulfur battery cathode. Journal of Materials Chemistry A, 2017, 5, 5905-5911.	10.3	37

#	ARTICLE	IF	CITATIONS
19	Enhanced sulfide chemisorption by conductive Al-doped ZnO decorated carbon nanoflakes for advanced Li-S batteries. <i>Nano Research</i> , 2018, 11, 477-489.	10.4	36
20	Thermodynamic analysis and perspective of aqueous metal-sulfur batteries. <i>Materials Today</i> , 2021, 49, 184-200.	14.2	31
21	Insight into anion storage batteries: Materials, properties and challenges. <i>Energy Storage Materials</i> , 2021, 42, 42-67.	18.0	28
22	Synergistic dual conversion reactions assisting Pb-S electrochemistry for energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118675119.	7.1	28
23	Controllable C-N site assisting observable potential difference for homogeneous copper deposition in aqueous Cu-S batteries. <i>Energy Storage Materials</i> , 2022, 48, 74-81.	18.0	28
24	Laser-Induced Graphene Assisting Self-Conversion Reaction for Sulfur-Free Aqueous Cu-S Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2103893.	14.9	27
25	Well-dispersed ultrafine Mn <sub>3</sub> O <sub>4</sub> nanocrystals on reduced graphene oxide with high electrochemical Li-storage performance. <i>New Journal of Chemistry</i> , 2014, 38, 4743-4747.	2.8	26
26	Core-shell structure of porous silicon with nitrogen-doped carbon layer for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2018, 108, 170-175.	5.2	25
27	Common ion effect enhanced Prussian blue analogues for aqueous ammonium ion storage. <i>Dalton Transactions</i> , 2021, 50, 6520-6527.	3.3	24
28	Sodium-storage behavior of electron-rich element-doped amorphous carbon. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	22
29	Synthesis and electrochemical performance of nano TiO <sub>2</sub> (B)-coated Li <sub>0.2</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> cathode materials for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 12962-12968.	2.8	21
30	Ion competition and limiting dendrite growth models of hybrid-ion symmetric cell. <i>Energy Storage Materials</i> , 2021, 42, 268-276.	18.0	20
31	Self-Healing Properties of Alkali Metals under High-Energy Conditions in Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100470.	19.5	13
32	Copper niobate nanowires boosted by a N, S co-doped carbon coating for superior lithium storage. <i>Dalton Transactions</i> , 2021, 50, 11030-11038.	3.3	11
33	Dendrite-free NaK alloy Anodes: Electrodes preparation and interfacial reaction. <i>Chemical Engineering Journal</i> , 2022, 432, 134353.	12.7	11
34	Surface chemistry of LiFePO <sub>4</sub> cathode material as unraveled by HRTEM and XPS. <i>Ionics</i> , 2021, 27, 31-37.	2.4	9
35	An anode-free aqueous dual-ion battery. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3298-3302.	4.9	9
36	High Capacity and Superior Rate Performances Coexisting in Carbon-Based Sodium-Ion Battery Anode. <i>Research</i> , 2019, 2019, 6930294.	5.7	9

#	ARTICLE	IF	CITATIONS
37	Expounding the Initial Alloying Behavior of Na-K Liquid Alloy Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 40118-40126.	8.0	7
38	Ti <sub>2</sub> Nb <sub>10</sub> O <sub>29</sub> @C hollow submicron ribbons for superior lithium storage. Ceramics International, 2022, 48, 23334-23340.	4.8	7
39	Hydrothermal synthesis of $\beta$ -MnO <sub>2</sub> nanorods for highly efficient zinc-ion storage. Ionics, 2021, 27, 3943-3950.	2.4	6