

# Xiao Ji

## List of Publications by Year in descending order

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57  
papers

10,272  
citations

61687

45  
h-index

150775

59  
g-index

59  
all docs

59  
docs citations

59  
times ranked

8538  
citing authors

#	ARTICLE	IF	CITATIONS
1	A self-regulated gradient interphase for dendrite-free solid-state Li batteries. <i>Energy and Environmental Science</i> , 2022, 15, 1325-1333.	15.6	98
2	Aqueous electrolyte design for super-stable 2.5 V LiMn <sub>2</sub> O <sub>4</sub>   Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> pouch cells. <i>Nature Energy</i> , 2022, 7, 186-193.	19.8	122
3	High-energy and low-cost membrane-free chlorine flow battery. <i>Nature Communications</i> , 2022, 13, 1281.	5.8	34
4	Formation of LiF-rich Cathode-Electrolyte Interphase by Electrolyte Reduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	90
5	Interfacial-engineering-enabled practical low-temperature sodium metal battery. <i>Nature Nanotechnology</i> , 2022, 17, 269-277.	15.6	69
6	F and N Rich Solid Electrolyte for Stable All-Solid-State Battery. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	30
7	Tuning Interface Lithiophobicity for Lithium Metal Solid-State Batteries. <i>ACS Energy Letters</i> , 2022, 7, 131-139.	8.8	56
8	Formation of LiF-rich Cathode-Electrolyte Interphase by Electrolyte Reduction. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	16
9	An Inorganic-Rich Solid Electrolyte Interphase for Advanced Lithium-Metal Batteries in Carbonate Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3661-3671.	7.2	317
10	An Inorganic-Rich Solid Electrolyte Interphase for Advanced Lithium-Metal Batteries in Carbonate Electrolytes. <i>Angewandte Chemie</i> , 2021, 133, 3705-3715.	1.6	29
11	Electrolytes and Interphases in Potassium Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2003741.	11.1	181
12	A rechargeable zinc-air battery based on zinc peroxide chemistry. <i>Science</i> , 2021, 371, 46-51.	6.0	551
13	Bifunctional Interphase-Enabled Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> Electrolytes for Lithium-Sulfur Battery. <i>ACS Energy Letters</i> , 2021, 6, 862-868.	8.8	115
14	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 1839-1848.	8.8	200
15	High-Energy Aqueous Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11943-11948.	7.2	100
16	High-Energy Aqueous Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, 12050-12055.	1.6	13
17	Solvation sheath reorganization enables divalent metal batteries with fast interfacial charge transfer kinetics. <i>Science</i> , 2021, 374, 172-178.	6.0	238
18	Quantifying and Suppressing Proton Intercalation to Enable High-Voltage Zn-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2102016.	10.2	48

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19	High Interfacial-Energy Interphase Promoting Safe Lithium Metal Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 2438-2447.	6.6	195
20	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. <i>ACS Energy Letters</i> , 2020, 5, 224-231.	8.8	59
21	Solid-State Electrolyte Design for Lithium Dendrite Suppression. <i>Advanced Materials</i> , 2020, 32, e2002741.	11.1	219
22	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22194-22201.	7.2	219
23	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 22378-22385.	1.6	60
24	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e2000030.	11.1	156
25	Enabling safe aqueous lithium ion open batteries by suppressing oxygen reduction reaction. <i>Nature Communications</i> , 2020, 11, 2638.	5.8	71
26	Water-Pillared Sodium Vanadium Bronze Nanowires for Enhanced Rechargeable Magnesium Ion Storage. <i>Small</i> , 2020, 16, e2000741.	5.2	34
27	Revealing Reaction Pathways of Collective Substituted Iron Fluoride Electrode for Lithium Ion Batteries. <i>ACS Nano</i> , 2020, 14, 10276-10283.	7.3	14
28	Suppression of hydrogen evolution at catalytic surfaces in aqueous lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14921-14926.	5.2	15
29	A 6.3 M Superconcentrated Aqueous Electrolyte for High-Energy Li-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 968-974.	8.8	197
30	Countersolvent Electrolytes for Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903568.	10.2	200
31	Electrolyte design for LiF-rich solid-electrolyte interfaces to enable high-performance micro-sized alloy anodes for batteries. <i>Nature Energy</i> , 2020, 5, 386-397.	19.8	621
32	A Covalent Organic Framework for Fast-Charge and Durable Rechargeable Mg Storage. <i>Nano Letters</i> , 2020, 20, 3880-3888.	4.5	72
33	High-Energy-Density Rechargeable Mg Battery Enabled by a Displacement Reaction. <i>Nano Letters</i> , 2019, 19, 6665-6672.	4.5	59
34	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO <sub>2</sub> Cathode for Li-ion and Li-metal Batteries. <i>Joule</i> , 2019, 3, 2550-2564.	11.7	167
35	Aqueous Li-ion battery enabled by halogen conversion intercalation chemistry in graphite. <i>Nature</i> , 2019, 569, 245-250.	13.7	590
36	Tuning Anionic Chemistry To Improve Kinetics of Mg Intercalation. <i>Chemistry of Materials</i> , 2019, 31, 3183-3191.	3.2	91

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37	Achieving High Energy Density through Increasing the Output Voltage: A Highly Reversible 5.3V Battery. <i>CheM</i> , 2019, 5, 896-912.	5.8	145
38	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. <i>Nature Energy</i> , 2019, 4, 882-890.	19.8	557
39	Azo Compounds Derived from Electrochemical Reduction of Nitro Compounds for High Performance Li-ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1706498.	11.1	134
40	Reversible Redox Chemistry of Azo Compounds for Sodium-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2879-2883.	7.2	159
41	Reversible Redox Chemistry of Azo Compounds for Sodium-ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 2929-2933.	1.6	33
42	Azo compounds as a family of organic electrode materials for alkali-ion batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2004-2009.	3.3	168
43	Highly Fluorinated Interphases Enable High-Voltage Li-Metal Batteries. <i>CheM</i> , 2018, 4, 174-185.	5.8	682
44	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. <i>Angewandte Chemie</i> , 2018, 130, 7264-7268.	1.6	51
45	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7146-7150.	7.2	177
46	Intercalation of Bi nanoparticles into graphite results in an ultra-fast and ultra-stable anode material for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 1218-1225.	15.6	212
47	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI <sub>2</sub> DME Electrolyte. <i>Advanced Materials</i> , 2018, 30, 1704313.	11.1	122
48	A rechargeable aqueous Zn <sup>2+</sup> -battery with high power density and a long cycle-life. <i>Energy and Environmental Science</i> , 2018, 11, 3168-3175.	15.6	258
49	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. <i>Science Advances</i> , 2018, 4, eaau9245.	4.7	521
50	Water-Activated VOPO <sub>4</sub> for Magnesium Ion Batteries. <i>Nano Letters</i> , 2018, 18, 6441-6448.	4.5	127
51	Solid-State Electrolyte Anchored with a Carboxylated Azo Compound for All-Solid-State Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8567-8571.	7.2	103
52	Solid-State Electrolyte Anchored with a Carboxylated Azo Compound for All-Solid-State Lithium Batteries. <i>Angewandte Chemie</i> , 2018, 130, 8703-8707.	1.6	29
53	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11978-11981.	7.2	123
54	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. <i>Angewandte Chemie</i> , 2018, 130, 12154-12157.	1.6	17

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55	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. Nature Nanotechnology, 2018, 13, 715-722.	15.6	964
56	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. Nature Communications, 2018, 9, 2324.	5.8	136
57	Flexible Aqueous Li-ion Battery with High Energy and Power Densities. Advanced Materials, 2017, 29, 1701972.	11.1	175