Xiao Ji

List of Publications by Year
in descending order

57 papers	10,272 citations	53660 45 h-index	133063 59 g-index
59 all docs	59 docs citations	59 times ranked	7334 citing authors

#	Article	IF	Citations
1	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. Nature Nanotechnology, 2018, 13, 715-722.	15.6	964
2	Highly Fluorinated Interphases Enable High-Voltage Li-Metal Batteries. CheM, 2018, 4, 174-185.	5.8	682
3	Electrolyte design for LiF-rich solidâ€“electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	19.8	621
4	Aqueous Li-ion battery enabled by halogen conversionâ€“intercalation chemistry in graphite. Nature, 2019, 569, 245-250.	13.7	590
5	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. Nature Energy, 2019, 4, 882-890.	19.8	557
6	A rechargeable zinc-air battery based on zinc peroxide chemistry. Science, 2021, 371, 46-51.	6.0	551
7	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. Science Advances, 2018, 4, eaau9245.	4.7	521
8	An Inorganicâ€Rich Solid Electrolyte Interphase for Advanced Lithiumâ€Metal Batteries in Carbonate Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 3661-3671.	7.2	317
9	A rechargeable aqueous Zn²⁺-battery with high power density and a long cycle-life. Energy and Environmental Science, 2018, 11, 3168-3175.	15.6	258
10	Solvation sheath reorganization enables divalent metal batteries with fast interfacial charge transfer kinetics. Science, 2021, 374, 172-178.	6.0	238
11	Solidâ€State Electrolyte Design for Lithium Dendrite Suppression. Advanced Materials, 2020, 32, e2002741.	11.1	219
12	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 22194-22201.	7.2	219
13	Intercalation of Bi nanoparticles into graphite results in an ultra-fast and ultra-stable anode material for sodium-ion batteries. Energy and Environmental Science, 2018, 11, 1218-1225.	15.6	212
14	Countersolvent Electrolytes for Lithiumâ€Metal Batteries. Advanced Energy Materials, 2020, 10, 1903568.	10.2	200
15	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. ACS Energy Letters, 2021, 6, 1839-1848.	8.8	200
16	A 63 <i>m</i> Superconcentrated Aqueous Electrolyte for High-Energy Li-Ion Batteries. ACS Energy Letters, 2020, 5, 968-974.	8.8	197
17	High Interfacial-Energy Interphase Promoting Safe Lithium Metal Batteries. Journal of the American Chemical Society, 2020, 142, 2438-2447.	6.6	195
18	Electrolytes and Interphases in Potassium Ion Batteries. Advanced Materials, 2021, 33, e2003741.	11.1	181

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19	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie - International Edition, 2018, 57, 7146-7150.	7.2	177
20	Flexible Aqueous Liâ€ion Battery with High Energy and Power Densities. Advanced Materials, 2017, 29, 1701972.	11.1	175
21	Azo compounds as a family of organic electrode materials for alkali-ion batteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2004-2009.	3.3	168
22	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO2 Cathode for Li-ion and Li-metal Batteries. Joule, 2019, 3, 2550-2564.	11.7	167
23	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 2879-2883.	7.2	159
24	Tuning the Anodeâ€“Electrolyte Interface Chemistry for Garnetâ€Based Solidâ€State Li Metal Batteries. Advanced Materials, 2020, 32, e2000030.	11.1	156
25	Achieving High Energy Density through Increasing the Output Voltage: A Highly Reversible 5.3ÂV Battery. CheM, 2019, 5, 896-912.	5.8	145
26	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. Nature Communications, 2018, 9, 2324.	5.8	136
27	Azo Compounds Derived from Electrochemical Reduction of Nitro Compounds for High Performance Liâ€ion Batteries. Advanced Materials, 2018, 30, e1706498.	11.1	134
28	Water-Activated VOPO₄ for Magnesium Ion Batteries. Nano Letters, 2018, 18, 6441-6448.	4.5	127
29	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. Angewandte Chemie - International Edition, 2018, 57, 11978-11981.	7.2	123
30	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI₂â€“DME Electrolyte. Advanced Materials, 2018, 30, 1704313.	11.1	122
31	Aqueous electrolyte design for super-stable 2.5â€‰V LiMn2O4â€‰||â€‰Li4Ti5O12 pouch cells. Nature Energy, 2022, 7, 186-193.	19.8	122
32	Bifunctional Interphase-Enabled Li₁₀GeP₂S₁₂ Electrolytes for Lithiumâ€“Sulfur Battery. ACS Energy Letters, 2021, 6, 862-868.	8.8	115
33	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie - International Edition, 2018, 57, 8567-8571.	7.2	103
34	Highâ€Energy Aqueous Sodiumâ€ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 11943-11948.	7.2	100
35	A self-regulated gradient interphase for dendrite-free solid-state Li batteries. Energy and Environmental Science, 2022, 15, 1325-1333.	15.6	98
36	Tuning Anionic Chemistry To Improve Kinetics of Mg Intercalation. Chemistry of Materials, 2019, 31, 3183-3191.	3.2	91

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37	Formation of LiFâ€rich Cathodeâ€Electrolyte Interphase by Electrolyte Reduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	90
38	A Covalent Organic Framework for Fast-Charge and Durable Rechargeable Mg Storage. Nano Letters, 2020, 20, 3880-3888.	4.5	72
39	Enabling safe aqueous lithium ion open batteries by suppressing oxygen reduction reaction. Nature Communications, 2020, 11, 2638.	5.8	71
40	Interfacial-engineering-enabled practical low-temperature sodium metal battery. Nature Nanotechnology, 2022, 17, 269-277.	15.6	69
41	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. Angewandte Chemie, 2020, 132, 22378-22385.	1.6	60
42	High-Energy-Density Rechargeable Mg Battery Enabled by a Displacement Reaction. Nano Letters, 2019, 19, 6665-6672.	4.5	59
43	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. ACS Energy Letters, 2020, 5, 224-231.	8.8	59
44	Tuning Interface Lithiophobicity for Lithium Metal Solid-State Batteries. ACS Energy Letters, 2022, 7, 131-139.	8.8	56
45	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie, 2018, 130, 7264-7268.	1.6	51
46	Quantifying and Suppressing Proton Intercalation to Enable Highâ€Voltage Znâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2102016.	10.2	48
47	Waterâ€Pillared Sodium Vanadium Bronze Nanowires for Enhanced Rechargeable Magnesium Ion Storage. Small, 2020, 16, e2000741.	5.2	34
48	High-energy and low-cost membrane-free chlorine flow battery. Nature Communications, 2022, 13, 1281.	5.8	34
49	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 2929-2933.	1.6	33
50	F and N Rich Solid Electrolyte for Stable Allâ€Solidâ€State Battery. Advanced Functional Materials, 2022, 32, .	7.8	30
51	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie, 2018, 130, 8703-8707.	1.6	29
52	An Inorganicâ€Rich Solid Electrolyte Interphase for Advanced Lithiumâ€Metal Batteries in Carbonate Electrolytes. Angewandte Chemie, 2021, 133, 3705-3715.	1.6	29
53	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. Angewandte Chemie, 2018, 130, 12154-12157.	1.6	17
54	Formation of LiFâ€rich Cathodeâ€Electrolyte Interphase by Electrolyte Reduction. Angewandte Chemie, 2022, 134, .	1.6	16

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55	Suppression of hydrogen evolution at catalytic surfaces in aqueous lithium ion batteries. Journal of Materials Chemistry A, 2020, 8, 14921-14926.	5.2	15
56	Revealing Reaction Pathways of Collective Substituted Iron Fluoride Electrode for Lithium Ion Batteries. ACS Nano, 2020, 14, 10276-10283.	7.3	14
57	Highâ€Energy Aqueous Sodiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 12050-12055.	1.6	13