Xiang Li

List of Publications by Year in descending order

38 papers	2,369 citations	236612 25 h-index	315357 38 g-index
38 all docs	38 docs citations	38 times ranked	2829 citing authors

#	Article	IF	Citations
1	Direct Visualization of the Reversible O^{2â^'}/O^{â^'} Redox Process in Liâ€Rich Cathode Materials. Advanced Materials, 2018, 30, e1705197.	11.1	264
2	Lithium-Doping Stabilized High-Performance P2â€"Na_{0.66}Li_{0.18}Fe_{0.12}Mn_{0.7}O₂ Cathode for Sodium Ion Batteries. Journal of the American Chemical Society, 2019, 141, 6680-6689.	6.6	187
3	A high-energy-density and long-life initial-anode-free lithium battery enabled by a Li2O sacrificial agent. Nature Energy, 2021, 6, 653-662.	19.8	175
4	A Concentrated Ternaryâ€Salts Electrolyte for High Reversible Li Metal Battery with Slight Excess Li. Advanced Energy Materials, 2019, 9, 1803372.	10.2	167
5	MOF-Based Separator in an Liâ€"O₂ Battery: An Effective Strategy to Restrain the Shuttling of Dual Redox Mediators. ACS Energy Letters, 2018, 3, 463-468.	8.8	151
6	Reversible anionic redox activity in Na₃RuO₄ cathodes: a prototype Na-rich layered oxide. Energy and Environmental Science, 2018, 11, 299-305.	15.6	126
7	Restraining Oxygen Loss and Suppressing Structural Distortion in a Newly Ti-Substituted Layered Oxide P2-Na_{0.66}Li_{0.22}Ti_{0.15}Mn_{0.63}O₂. ACS Energy Letters, 2019, 4, 2409-2417.	8.8	112
8	Progress in research on Liâ€"CO2 batteries: Mechanism, catalyst and performance. Chinese Journal of Catalysis, 2016, 37, 1016-1024.	6.9	101
9	Highly Concentrated Electrolyte towards Enhanced Energy Density and Cycling Life of Dualâ€Ion Battery. Angewandte Chemie - International Edition, 2020, 59, 17924-17930.	7.2	99
10	Nitrate additives for lithium batteries: Mechanisms, applications, and prospects. EScience, 2021, 1, 108-123.	25.0	98
11	A New Type of Liâ€Rich Rockâ€Salt Oxide Li₂Ni_{1/3}Ru_{2/3}O₃ with Reversible Anionic Redox Chemistry. Advanced Materials, 2019, 31, e1807825.	11.1	90
12	Stabilizing Reversible Oxygen Redox Chemistry in Layered Oxides for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1903785.	10.2	87
13	A Multifunctional Sillyâ€Putty Nanocomposite Spontaneously Repairs Cathode Composite for Advanced Liâ^'S Batteries. Advanced Functional Materials, 2018, 28, 1804777.	7.8	52
14	A Hybrid Electrolytes Design for Capacityâ€Equivalent Dualâ€Graphite Battery with Superior Longâ€Term Cycle Life. Advanced Energy Materials, 2018, 8, 1801120.	10.2	50
15	A Superlatticeâ€Stabilized Layered Oxide Cathode for Sodiumâ€Ion Batteries. Advanced Materials, 2020, 32, e1907936.	11.1	50
16	Boosting the Cycle Life of Aprotic Liâ€"O₂ Batteries via a Photoâ€Assisted Hybrid Li₂O₂â€Scavenging Strategy. Small Methods, 2018, 2, 1700284.	4.6	47
17	An ultrafast rechargeable lithium metal battery. Journal of Materials Chemistry A, 2018, 6, 15517-15522.	5.2	43
18	A Highâ€Crystalline NaV_{1.25}Ti_{0.75}O₄ Anode for Wideâ€Temperature Sodiumâ€Ion Battery. Advanced Energy Materials, 2018, 8, 1801162.	10.2	41

#	Article	IF	Citations
19	Highâ€Voltage Liâ€Ion Fullâ€Cells with Ultralong Term Cycle Life at Elevated Temperature. Advanced Energy Materials, 2018, 8, 1802322.	10.2	34
20	Cu(NO3)2 as efficient electrolyte additive for 4ÂV class Li metal batteries with ultrahigh stability. Energy Storage Materials, 2021, 37, 1-7.	9.5	33
21	Porous Hollow Carbon Aerogel-Assembled Core@Polypyrrole Nanoparticle Shell as an Efficient Sulfur Host through a Tunable Molecular Self-Assembly Method for Rechargeable Lithium/Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 15822-15833.	3.2	29
22	Identifying Anionic Redox Activity within the Related O3- and P2-Type Cathodes for Sodium-Ion Battery. ACS Applied Materials & Interfaces, 2020, 12, 851-857.	4.0	28
23	Anion Intercalation of VS₄ Triggers Atomic Sulfur Transfer to Organic Disulfide in Rechargeable Lithium Battery. Advanced Functional Materials, 2021, 31, 2009875.	7.8	28
24	A Li-ion oxygen battery with Li-Si alloy anode prepared by a mechanical method. Electrochemistry Communications, 2017, 78, 11-15.	2.3	27
25	Synergetic Anionâ€“Cation Redox Ensures a Highly Stable Layered Cathode for Sodiumâ€Ion Batteries. Advanced Science, 2022, 9, e2105280.	5.6	27
26	Research on Effective Oxygen Window Influencing the Capacity of Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 10375-10382.	4.0	24
27	Na₂Ru_{1â^'x}Mn_xO₃ as the cathode for sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 4395-4399.	5.2	24
28	Controlled synthesis of three-dimensional porous carbon aerogel via catalysts: effects of morphologies toward the performance of lithium-sulfur batteries. Solid State Ionics, 2020, 347, 115248.	1.3	24
29	Sulfur double encapsulated in a porous hollow carbon aerogel with interconnected micropores for advanced lithium-sulfur batteries. Journal of Alloys and Compounds, 2020, 834, 155190.	2.8	24
30	Unraveling the anionic oxygen loss and related structural evolution within O3-type Na layered oxide cathodes. Journal of Materials Chemistry A, 2019, 7, 20405-20413.	5.2	23
31	Advances of entropy-stabilized homologous compounds for electrochemical energy storage. Journal of Energy Chemistry, 2022, 67, 276-289.	7.1	22
32	Amorphous P₂S₅/C Composite as High-Performance Anode Materials for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 16-20.	4.0	20
33	SnP0.94 nanodots confined carbon aerogel with porous hollow superstructures as an exceptional polysulfide electrocatalyst and â€œadsorption nestâ€•to enable enhanced lithium-sulfur batteries. Chemical Engineering Journal, 2021, 420, 129724.	6.6	16
34	In Situ Synthesis of Vacancy-Rich Titanium Sulfide Confined in a Hollow Carbon Nanocage as an Efficient Sulfur Host for Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2021, 4, 10104-10113.	2.5	15
35	A battery with sulphur cathode and lithiated graphite anode based on Lithium shuttle reaction. Materials Technology, 2016, 31, 517-520.	1.5	9
36	Tuning Solvation Behavior of Ester-Based Electrolytes toward Highly Stable Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 40582-40589.	4.0	9

#	Article	IF	Citations
37	Regulating dissolution chemistry of nitrates in carbonate electrolyte for high-stable lithium metal batteries. Journal of Energy Chemistry, 2022, 73, 422-428.	7.1	7
38	Highly Concentrated Electrolyte towards Enhanced Energy Density and Cycling Life of Dualâ€Ion Battery. Angewandte Chemie, 2020, 132, 18080-18086.	1.6	6