

# Liumin Suo

## List of Publications by Year in descending order

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74  
papers

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41344

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#	ARTICLE	IF	CITATIONS
1	Spinel-related Li <sub>2</sub> Ni <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode for 5-V anode-free lithium metal batteries. <i>Energy Storage Materials</i> , 2022, 45, 821-827.	18.0	21
2	All-in-One Ionicâ€“Electronic Dual-Carrier Conducting Framework Thickening All-Solid-State Electrode. <i>ACS Energy Letters</i> , 2022, 7, 766-772.	17.4	7
3	A Better Choice to Achieve High Volumetric Energy Density: Anodeâ€“Free Lithiumâ€“Metal Batteries. <i>Advanced Materials</i> , 2022, 34, e2110323.	21.0	46
4	Electroactive-catalytic conductive framework for aluminum-sulfur batteries. <i>Energy Storage Materials</i> , 2022, 51, 266-272.	18.0	7
5	Epitaxial Induced Plating Currentâ€“Collector Lasting Lifespan of Anodeâ€“Free Lithium Metal Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2003709.	19.5	119
6	Liâ€“Rich Li <sub>2</sub> [Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> for Anodeâ€“Free Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 8370-8377.	2.0	2
7	Liâ€“Rich Li <sub>2</sub> [Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> for Anodeâ€“Free Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8289-8296.	13.8	71
8	Cation-synergy stabilizing anion redox of Chevrel phase Mo <sub>6</sub> S <sub>8</sub> in aluminum ion battery. <i>Energy Storage Materials</i> , 2021, 37, 87-93.	18.0	31
9	Dense Allâ€“Electrochemâ€“Active Electrodes for Allâ€“Solidâ€“State Lithium Batteries. <i>Advanced Materials</i> , 2021, 33, e2008723.	21.0	26
10	Progress in Rechargeable Aqueous Alkali-Ion Batteries in China. <i>Energy &amp; Fuels</i> , 2021, 35, 9228-9239.	5.1	9
11	Sandwich Structure Corrosion-Resistant Current Collector for Aqueous Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 4928-4934.	5.1	4
12	Ultralight Electrolyte for Highâ€“Energy Lithiumâ€“Sulfur Pouch Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17547-17555.	13.8	72
13	Ultralight Electrolyte for Highâ€“Energy Lithiumâ€“Sulfur Pouch Cells. <i>Angewandte Chemie</i> , 2021, 133, 17688-17696.	2.0	13
14	Amorphous Redox-Rich Polysulfides for Mg Cathodes. <i>Jacs Au</i> , 2021, 1, 1266-1274.	7.9	14
15	Solid-Like Nano-Anion Cluster Constructs a Free Lithium-Ion-Conducting Superfluid Framework in a Water-in-Salt Electrolyte. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11838-11847.	3.1	17
16	Lowâ€“Density Fluorinated Silane Solvent Enhancing Deep Cycle Lithiumâ€“Sulfur Batteriesâ€™ Lifetime. <i>Advanced Materials</i> , 2021, 33, e2102034.	21.0	39
17	Amorphous anion-rich titanium polysulfides for aluminum-ion batteries. <i>Science Advances</i> , 2021, 7, .	10.3	63
18	Water-in-salt widens the electrochemical stability window: Thermodynamic and kinetic factors. <i>Current Opinion in Electrochemistry</i> , 2021, 29, 100818.	4.8	25

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19	TiO <sub>2</sub> (B) anode for high-voltage aqueous Li-ion batteries. <i>Energy Storage Materials</i> , 2021, 42, 438-444.	18.0	28
20	Electronic Conductive Inorganic Cathodes Promising High-Energy Organic Batteries. <i>Advanced Materials</i> , 2021, 33, e2005781.	21.0	12
21	Aqueous interphase formed by CO <sub>2</sub> brings electrolytes back to salt-in-water regime. <i>Nature Chemistry</i> , 2021, 13, 1061-1069.	13.6	57
22	Iodine Vapor Transport-Triggered Preferential Growth of Chevrel Mo <sub>6</sub> S <sub>8</sub> Nanosheets for Advanced Multivalent Batteries. <i>ACS Nano</i> , 2020, 14, 1102-1110.	14.6	72
23	The Compensation Effect Mechanism of Fe-Ni Mixed Prussian Blue Analogues in Aqueous Rechargeable Aluminum-Ion Batteries. <i>ChemSusChem</i> , 2020, 13, 732-740.	6.8	93
24	High-Voltage Aqueous Na-Ion Battery Enabled by Inert-Cation-Assisted Water-in-Salt Electrolyte. <i>Advanced Materials</i> , 2020, 32, e1904427.	21.0	221
25	Interface Concentrated-Confinement Suppressing Cathode Dissolution in Water-in-Salt Electrolyte. <i>Advanced Energy Materials</i> , 2020, 10, 2000665.	19.5	70
26	Joint Cationic and Anionic Redox Chemistry for Advanced Mg Batteries. <i>Nano Letters</i> , 2020, 20, 6852-6858.	9.1	25
27	Simplifying and accelerating kinetics enabling fast-charge Al batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23834-23843.	10.3	12
28	Wearable Bipolar Rechargeable Aluminum Battery. , 2020, 2, 808-813.		19
29	Reversible Al <sup>3+</sup> storage mechanism in anatase TiO <sub>2</sub> cathode material for ionic liquid electrolyte-based aluminum-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 51, 72-80.	12.9	56
30	A Pyrazine-Based Polymer for Fast-Charge Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17820-17826.	13.8	173
31	Water-in-Salt Electrolyte Promotes High-Capacity FeFe(CN) <sub>6</sub> Cathode for Aqueous Al-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41356-41362.	8.0	93
32	A Pyrazine-Based Polymer for Fast-Charge Batteries. <i>Angewandte Chemie</i> , 2019, 131, 17984-17990.	2.0	19
33	Manipulating Sulfur Mobility Enables Advanced Li-S Batteries. <i>Matter</i> , 2019, 1, 1047-1060.	10.0	63
34	In Situ Formation of a Stable Interface in Solid-State Batteries. <i>ACS Energy Letters</i> , 2019, 4, 1650-1657.	17.4	93
35	Intercalation-conversion hybrid cathodes enabling Li-S full-cell architectures with jointly superior gravimetric and volumetric energy densities. <i>Nature Energy</i> , 2019, 4, 374-382.	39.5	449
36	Brownian-snowball-mechanism-induced hierarchical cobalt sulfide for supercapacitors. <i>Journal of Power Sources</i> , 2019, 412, 321-330.	7.8	31

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37	Fluorine-donating electrolytes enable highly reversible 5-V-class Li metal batteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1156-1161.	7.1	512
38	Progress in Aqueous Rechargeable Sodium-Ion Batteries. Advanced Energy Materials, 2018, 8, 1703008.	19.5	297
39	High power rechargeable magnesium/iodine battery chemistry. Nature Communications, 2017, 8, 14083.	12.8	251
40	Double-oxide sulfur host for advanced lithium-sulfur batteries. Nano Energy, 2017, 38, 12-18.	16.0	93
41	Unique aqueous Li-ion/sulfur chemistry with high energy density and reversibility. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6197-6202.	7.1	151
42	Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode for High-Energy Aqueous Lithium-Ion Batteries. Advanced Energy Materials, 2017, 7, 1600922.	19.5	103
43	Liquid Structure with Nano-Heterogeneity Promotes Cationic Transport in Concentrated Electrolytes. ACS Nano, 2017, 11, 10462-10471.	14.6	283
44	Flexible Aqueous Li-Ion Battery with High Energy and Power Densities. Advanced Materials, 2017, 29, 1701972.	21.0	175
45	"Water-in-Salt" Electrolyte Makes Aqueous Sodium-Ion Battery Safe, Green, and Long-Lasting. Advanced Energy Materials, 2017, 7, 1701189.	19.5	487
46	"Water-in-Salt" electrolyte enabled $\text{LiMn}_2\text{O}_4/\text{TiS}_2$ Lithium-ion batteries. Electrochemistry Communications, 2017, 82, 71-74.	4.7	99
47	Nitrogen-Doped Carbon for Sodium-Ion Battery Anode by Self-Etching and Graphitization of Bimetallic MOF-Based Composite. Chem, 2017, 3, 152-163.	11.7	228
48	How Solid-Electrolyte Interphase Forms in Aqueous Electrolytes. Journal of the American Chemical Society, 2017, 139, 18670-18680.	13.7	365
49	Advanced High-Voltage Aqueous Lithium-Ion Battery Enabled by "Water-in-Salt" Electrolyte. Angewandte Chemie, 2016, 128, 7252-7257.	2.0	459
50	Pomegranate-Structured Conversion-Reaction Cathode with a Built-in Li Source for High-Energy Li-Ion Batteries. ACS Nano, 2016, 10, 5567-5577.	14.6	88
51	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. Angewandte Chemie, 2016, 128, 10052-10055.	2.0	64
52	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. Angewandte Chemie - International Edition, 2016, 55, 9898-9901.	13.8	215
53	Stabilizing high voltage $\text{LiCoO}_2$ cathode in aqueous electrolyte with interphase-forming additive. Energy and Environmental Science, 2016, 9, 3666-3673.	30.8	190
54	Advanced High-Voltage Aqueous Lithium-Ion Battery Enabled by "Water-in-Salt" Electrolyte. Angewandte Chemie - International Edition, 2016, 55, 7136-7141.	13.8	571

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55	High-Performance All-Solid-State Lithium-Sulfur Battery Enabled by a Mixed-Conductive Li <sub>2</sub> S Nanocomposite. <i>Nano Letters</i> , 2016, 16, 4521-4527.	9.1	333
56	In situ lithiated FeF <sub>3</sub> /C nanocomposite as high energy conversion-reaction cathode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 307, 435-442.	7.8	64
57	FT-Raman spectroscopy study of solvent-in-salt electrolytes. <i>Chinese Physics B</i> , 2016, 25, 016101.	1.4	61
58	Water-in-Salt electrolytes enable green and safe Li-ion batteries for large scale electric energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6639-6644.	10.3	172
59	Electrospun FeS <sub>2</sub> @Carbon Fiber Electrode as a High Energy Density Cathode for Rechargeable Lithium Batteries. <i>ACS Nano</i> , 2016, 10, 1529-1538.	14.6	199
60	Superior Stable Self-Healing SnP <sub>3</sub> Anode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500174.	19.5	197
61	Carbon cage encapsulating nano-cluster Li <sub>2</sub> S by ionic liquid polymerization and pyrolysis for high performance Li-S batteries. <i>Nano Energy</i> , 2015, 13, 467-473.	16.0	76
62	Ether-based electrolyte enabled Na/FeS <sub>2</sub> rechargeable batteries. <i>Electrochemistry Communications</i> , 2015, 54, 18-22.	4.7	121
63	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. <i>Nano Energy</i> , 2015, 13, 537-545.	16.0	91
64	Enhancing the Reversibility of Mg/S Battery Chemistry through Li <sup>+</sup> Mediation. <i>Journal of the American Chemical Society</i> , 2015, 137, 12388-12393.	18.7	225
65	Water-in-salt electrolyte enables high-voltage aqueous lithium-ion chemistries. <i>Science</i> , 2015, 350, 938-943.	12.6	2,553
66	Hybrid Mg <sup>2+</sup> /Li <sup>+</sup> Battery with Long Cycle Life and High Rate Capability. <i>Advanced Energy Materials</i> , 2015, 5, 1401507.	19.5	155
67	In situ formed carbon bonded and encapsulated selenium composites for Li-Se and Na-Se batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 555-561.	10.3	115
68	Cereus-Shaped Mesoporous Rutile TiO <sub>2</sub> Formed in Ionic Liquid: Synthesis and Li Storage Properties. <i>ChemElectroChem</i> , 2014, 1, 549-553.	3.4	13
69	Size-Dependent Staging and Phase Transition in LiFePO <sub>4</sub> /FePO <sub>4</sub> . <i>Advanced Functional Materials</i> , 2014, 24, 312-318.	14.9	48
70	Novel approach for a high-energy-density Li-air battery: tri-dimensional growth of Li <sub>2</sub> O <sub>2</sub> crystals tailored by electrolyte Li <sup>+</sup> ion concentrations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9020.	10.3	41
71	A new class of Solvent-in-Salt electrolyte for high-energy rechargeable metallic lithium batteries. <i>Nature Communications</i> , 2013, 4, 1481.	12.8	1,917
72	Phase Transformation and Lithiation Effect on Electronic Structure of Li <sub>x</sub> FePO <sub>4</sub> : An In-Depth Study by Soft X-ray and Simulations. <i>Journal of the American Chemical Society</i> , 2012, 134, 13708-13715.	13.7	136

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73	Highly ordered staging structural interface between LiFePO <sub>4</sub> and FePO <sub>4</sub> . Physical Chemistry Chemical Physics, 2012, 14, 5363.	2.8	53
74	Towards understanding the effects of carbon and nitrogen-doped carbon coating on the electrochemical performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> in lithium ion batteries: a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2011, 13, 15127.	2.8	169