

# Chilin Li

## List of Publications by Year in descending order

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91  
papers

6,372  
citations

41344

49  
h-index

69250

77  
g-index

92  
all docs

92  
docs citations

92  
times ranked

5722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Observation of Lithium Staging in Partially Delithiated $\text{LiFePO}_4$ at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2011, 133, 4661-4663.	13.7	219
2	Low-Temperature Ionic-Liquid-Based Synthesis of Nanostructured Iron-Based Fluoride Cathodes for Lithium Batteries. <i>Advanced Materials</i> , 2010, 22, 3650-3654.	21.0	209
3	An $\text{FeF}_3 \cdot 0.5\text{H}_2\text{O}$ Polytype: A Microporous Framework Compound with Intersecting Tunnels for Li and Na Batteries. <i>Journal of the American Chemical Society</i> , 2013, 135, 11425-11428.	13.7	177
4	Densification and ionic-conduction improvement of lithium garnet solid electrolytes by flowing oxygen sintering. <i>Journal of Power Sources</i> , 2014, 248, 642-646.	7.8	175
5	Sodium Storage and Pseudocapacitive Charge in Textured $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Thin Films. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10616-10624.	3.1	150
6	Conductive Holey $\text{MoO}_2$ $\text{Mo}_3\text{N}_2$ Heterojunctions as Job-Synergistic Cathode Host with Low Surface Area for High-Loading Li-S Batteries. <i>ACS Nano</i> , 2019, 13, 10049-10061.	14.6	150
7	Carbon Nanotube Wiring of Electrodes for High-Rate Lithium Batteries Using an Imidazolium-Based Ionic Liquid Precursor as Dispersant and Binder: A Case Study on Iron Fluoride Nanoparticles. <i>ACS Nano</i> , 2011, 5, 2930-2938.	14.6	149
8	A Mesoporous Iron-Based Fluoride Cathode of Tunnel Structure for Rechargeable Lithium Batteries. <i>Advanced Functional Materials</i> , 2011, 21, 1391-1397.	14.9	149
9	Built-In Catalysis in Confined Nanoreactors for High-Loading Li-S Batteries. <i>ACS Nano</i> , 2020, 14, 3365-3377.	14.6	147
10	Long-life $\text{Na-O}_2$ batteries with high energy efficiency enabled by electrochemically splitting $\text{NaO}_2$ at a low overpotential. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15646.	2.8	138
11	Adenine Derivative Host with Interlaced 2D Structure and Dual Lithiophilic-Sulphophilic Sites to Enable High-Loading Li-S Batteries. <i>ACS Nano</i> , 2019, 13, 9520-9532.	14.6	137
12	Liquid Polydimethylsiloxane Grafting to Enable Dendrite-Free Li Plating for Highly Reversible Li-Metal Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1902220.	14.9	137
13	High Rate Magnesium-Sulfur Battery with Improved Cyclability Based on Metal-Organic Framework Derivative Carbon Host. <i>Advanced Materials</i> , 2018, 30, 1704166.	21.0	131
14	Sandwich-like Catalyst-Carbon-Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12129-12138.	13.8	130
15	High-Capacity Molecular Scale Conversion Anode Enabled by Hybridizing Cluster-Type Framework of High Loading with Amino-Functionalized Graphene. <i>ACS Nano</i> , 2016, 10, 5304-5313.	14.6	124
16	Top-Down Synthesis of Open Framework Fluoride for Lithium and Sodium Batteries. <i>Chemistry of Materials</i> , 2013, 25, 962-969.	6.7	117
17	High-Capacity Mg-Organic Batteries Based on Nanostructured Rhodizonate Salts Activated by Mg-Li Dual-Salt Electrolyte. <i>ACS Nano</i> , 2018, 12, 3424-3435.	14.6	115
18	A High-Capacity Cathode for Lithium Batteries Consisting of Porous Microspheres of Highly Amorphized Iron Fluoride Densified from Its Open Parent Phase. <i>Advanced Energy Materials</i> , 2013, 3, 113-119.	19.5	111

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19	Dual-Salt Mg-Based Batteries with Conversion Cathodes. <i>Advanced Functional Materials</i> , 2015, 25, 7300-7308.	14.9	111
20	Supernormal Conversion Anode Consisting of High-Density MoS <sub>2</sub> Bubbles Wrapped in Thin Carbon Network by Self-Sulfuration of Polyoxometalate Complex. <i>ACS Nano</i> , 2017, 11, 7390-7400.	14.6	110
21	Nanostructured Carbon Nitride Polymer-Reinforced Electrolyte To Enable Dendrite-Suppressed Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11615-11625.	8.0	109
22	Li metal batteries and solid state batteries benefiting from halogen-based strategies. <i>Energy Storage Materials</i> , 2018, 14, 100-117.	18.0	108
23	Li <sub>2</sub> CO <sub>3</sub> -affiliative mechanism for air-accessible interface engineering of garnet electrolyte via facile liquid metal painting. <i>Nature Communications</i> , 2020, 11, 3716.	12.8	106
24	Enhancement of the Li Conductivity in LiF by Introducing Glass/Crystal Interfaces. <i>Advanced Functional Materials</i> , 2012, 22, 1145-1149.	14.9	104
25	Carbon-based derivatives from metal-organic frameworks as cathode hosts for Li-S batteries. <i>Journal of Energy Chemistry</i> , 2019, 38, 94-113.	12.9	104
26	Nanostructured Li-Rich Fluoride Coated by Ionic Liquid as High Ion-Conductivity Solid Electrolyte Additive to Suppress Dendrite Growth at Li Metal Anode. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 34322-34331.	8.0	97
27	N/O dual-doped hollow carbon microspheres constructed by holey nanosheet shells as large-grain cathode host for high loading Li-S batteries. <i>Energy Storage Materials</i> , 2020, 24, 644-654.	18.0	93
28	CF-rich oil drop as a non-expendable fluid interface modifier with low surface energy to stabilize a Li metal anode. <i>Energy and Environmental Science</i> , 2021, 14, 3621-3631.	30.8	91
29	Cubic Perovskite Fluoride as Open Framework Cathode for Na-Clon Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1701130.	14.9	90
30	Electrochemically driven conversion reaction in fluoride electrodes for energy storage devices. <i>Npj Computational Materials</i> , 2018, 4, .	8.7	89
31	In Situ Plating of Porous Mg Network Layer to Reinforce Anode Dendrite Suppression in Li-Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12678-12689.	8.0	88
32	In-situ crosslinked single ion gel polymer electrolyte with superior performances for lithium metal batteries. <i>Chemical Engineering Journal</i> , 2020, 382, 122935.	12.7	86
33	Metal-Organic Frameworks as Electrolyte Additives To Enable Ultrastable Plating/Stripping of Li Anode with Dendrite Inhibition. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3869-3879.	8.0	84
34	Ultrathin Defective C <sub>6</sub> N Coating to Enable Nanostructured Li Plating for Li Metal Batteries. <i>ACS Nano</i> , 2020, 14, 1866-1878.	14.6	83
35	Sericin protein as a conformal protective layer to enable air-endurable Li metal anodes and high-rate Li-S batteries. <i>Journal of Power Sources</i> , 2019, 419, 72-81.	7.8	80
36	Garnet-Based Solid-State Lithium Fluoride Conversion Batteries Benefiting from Eutectic Interlayer of Superior Wettability. <i>ACS Energy Letters</i> , 2020, 5, 1167-1176.	17.4	79

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37	H-Nb <sub>2</sub> O <sub>5</sub> wired by tetragonal tungsten bronze related domains as high-rate anode for Li-ion batteries. <i>Energy Storage Materials</i> , 2018, 11, 152-160.	18.0	75
38	Metal organic framework reinforced polymer electrolyte with high cation transference number to enable dendrite-free solid state Li metal conversion batteries. <i>Journal of Power Sources</i> , 2021, 501, 229946.	7.8	74
39	Unlocking solid-state conversion batteries reinforced by hierarchical microsphere stacked polymer electrolyte. <i>Science Bulletin</i> , 2021, 66, 694-707.	9.0	73
40	Consecutive Nucleation and Confinement Modulation towards Li Plating in Seeded Capsules for Durable Li-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14040-14050.	13.8	70
41	Defect-Concentration-Mediated Ta <sub>2</sub> O <sub>5</sub> Anodes for Durable and Fast-Charging Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2107060.	14.9	68
42	Solid electrolytes reinforced by infinite coordination polymer nano-network for dendrite-free lithium metal batteries. <i>Energy Storage Materials</i> , 2021, 41, 436-447.	18.0	67
43	Transition-Metal-Free Magnesium-Based Batteries Activated by Anionic Insertion into Fluorinated Graphene Nanosheets. <i>Advanced Functional Materials</i> , 2015, 25, 6519-6526.	14.9	66
44	Dynamical SEI Reinforced by Open-Architecture MOF Film with Stereoscopic Lithiophilic Sites for High-Performance Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101034.	14.9	59
45	Charge Carrier Accumulation in Lithium Fluoride Thin Films due to Li-Ion Absorption by Titania (100) Subsurface. <i>Nano Letters</i> , 2012, 12, 1241-1246.	9.1	58
46	Dehydrating bronze iron fluoride as a high capacity conversion cathode for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16166-16174.	10.3	58
47	High-conductivity open framework fluorinated electrolyte bonded by solidified ionic liquid wires for solid-state Li metal batteries. <i>Energy Storage Materials</i> , 2020, 28, 37-46.	18.0	58
48	Iron-based fluorides of tetragonal tungsten bronze structure as potential cathodes for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7382-7389.	10.3	57
49	Shallow-layer pillaring of a conductive polymer in monolithic grains to drive superior zinc storage via a cascading effect. <i>Energy and Environmental Science</i> , 2020, 13, 3149-3163.	30.8	57
50	Lithium Ion Repulsion-Enrichment Synergism Induced by Core-Shell Ionic Complexes to Enable High-Loading Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23256-23266.	13.8	55
51	Tetragonal Tungsten Bronze Framework as Potential Anode for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 3139-3147.	6.7	48
52	Confinement effect and air tolerance of Li plating by lithiophilic poly(vinyl alcohol) coating for dendrite-free Li metal batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22257-22264.	10.3	47
53	A branched cellulose-reinforced composite polymer electrolyte with upgraded ionic conductivity for anode stabilized solid-state Li metal batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2642-2656.	4.9	42
54	Construction of solid-liquid fluorine transport channel to enable highly reversible conversion cathodes. <i>Science Advances</i> , 2021, 7, eabj1491.	10.3	41

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55	High-Rate Nanostructured Pyrite Cathodes Enabled by Fluorinated Surface and Compact Grain Stacking <i>via</i> Sulfuration of Ionic Liquid Coated Fluorides. <i>ACS Nano</i> , 2018, 12, 12444-12455.	14.6	40
56	Lithium dendrite-free and fast-charging for high voltage nickel-rich lithium metal batteries enabled by bifunctional sulfone-containing electrolyte additives. <i>Journal of Power Sources</i> , 2020, 452, 227833.	7.8	40
57	Oxygen-defect-rich coating with nanoporous texture as both anode host and artificial SEI for dendrite-mitigated lithium-metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5606-5618.	10.3	40
58	Stacking of Tailored Chalcogenide Nanosheets around MoO <sub>2</sub> -C Conductive Stakes Modulated by a Hybrid POM $\dot{S}$ ,MOF Precursor Template: Composite Conversion $\dot{S}$ Insertion Cathodes for Rechargeable Mg $\dot{S}$ Li Dual-Salt Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5966-5977.	8.0	39
59	Planting CuGa <sub>2</sub> seeds assisted with liquid metal for selective wrapping deposition of lithium. <i>Energy Storage Materials</i> , 2021, 37, 466-475.	18.0	38
60	Reaction pathway and wiring network dependent Li/Na storage of micro-sized conversion anode with mesoporosity and metallic conductivity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 509-514.	10.3	37
61	Li-salt mediated Mg-rhodizonate batteries based on ultra-large cathode grains enabled by K-ion pillaring. <i>Energy Storage Materials</i> , 2019, 22, 218-227.	18.0	37
62	Reversible Mg metal anode in conventional electrolyte enabled by durable heterogeneous SEI with low surface diffusion barrier. <i>Energy Storage Materials</i> , 2022, 46, 1-9.	18.0	37
63	Metal-Induced Crystallization of Highly Corrugated Silicon Thick Films as Potential Anodes for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8782-8788.	8.0	35
64	Unusual Conformal Li Plating on Alloyable Nanofiber Frameworks to Enable Dendrite Suppression of Li Metal Anode. <i>ACS Applied Energy Materials</i> , 2019, 2, 4379-4388.	5.1	35
65	Hydrogen-bonding-mediated structural stability and electrochemical performance of iron fluoride cathode materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16222-16228.	10.3	34
66	Triple Conductive Wiring by Electron Doping, Chelation Coating and Electrochemical Conversion in Fluffy Nb <sub>2</sub> O <sub>5</sub> Anodes for Fast $\dot{S}$ Charging Li $\dot{S}$ Ion Batteries. <i>Advanced Science</i> , 2022, 9, .	11.2	33
67	Behind the Candelabra: A Facile Flame Vapor Deposition Method for Interfacial Engineering of Garnet Electrolyte To Enable Ultralong Cycling Solid-State Li $\dot{S}$ FeF <sub>3</sub> Conversion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33729-33739.	8.0	32
68	Job-sharing cathode design for Li $\dot{S}$ O <sub>2</sub> batteries with high energy efficiency enabled by in situ ionic liquid bonding to cover carbon surface defects. <i>Journal of Materials Chemistry A</i> , 2016, 4, 241-249.	10.3	31
69	NASICON-based solid state Li-Fe-F conversion batteries enabled by multi-interface-compatible sericin protein buffer layer. <i>Energy Storage Materials</i> , 2022, 47, 551-560.	18.0	31
70	Robustness-Heterogeneity-Induced Ultrathin 2D Structure in Li Plating for Highly Reversible Li $\dot{S}$ Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46132-46145.	8.0	29
71	A Na-rich fluorinated sulfate anti-perovskite with dual doping as solid electrolyte for Na metal solid state batteries. <i>Energy Storage Materials</i> , 2020, 31, 87-94.	18.0	29
72	Ionic space charge effects in lithium fluoride thin films. <i>Solid State Ionics</i> , 2012, 225, 408-411.	2.7	28

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73	Ionic Space Charge Depletion in Lithium Fluoride Thin Films on Sapphire (0001) Substrates. <i>Advanced Functional Materials</i> , 2011, 21, 2901-2905.	14.9	27
74	LiF Splitting Catalyzed by Dual Metal Nanodomains for an Efficient Fluoride Conversion Cathode. <i>ACS Nano</i> , 2019, 13, 2490-2500.	14.6	27
75	Maximizing Magnesium Capacity of Nanowire Cluster Oxides by Conductive Macromolecule Pillaring and Multication Intercalation. <i>Small</i> , 2021, 17, e2102168.	10.0	25
76	Electrolyte formulation to enable ultra-stable aqueous Zn-organic batteries. <i>Journal of Power Sources</i> , 2021, 482, 228904.	7.8	24
77	<i>In Situ</i> Sulfurized Carbon-Confined Cobalt for Long-Life Mg/S Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 2516-2525.	5.1	23
78	Pre-pulverizing Ni-rich layered oxide cathodes via <i>liquid explosive</i> infiltration toward highly durable 4.5 V lithium batteries. <i>Energy Storage Materials</i> , 2022, 50, 819-828.	18.0	21
79	Highly Reversible Conversion Anodes Composed of Ultralarge Monolithic Grains with Seamless Intragranular Binder and Wiring Network. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 23280-23290.	8.0	19
80	Tight bonding and high-efficiency utilization of S moieties to enable ultra-stable and high-capacity alkali-metal conversion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6160-6171.	10.3	17
81	High-density catalytic heterostructures strung by buried-in carbon tube network as monolithic holey host for durable Li-S batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 137294.	12.7	17
82	Consecutive Nucleation and Confinement Modulation towards Li Plating in Seeded Capsules for Durable Li-Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 14159-14169.	2.0	16
83	Eutectic Nano-Droplet Template Injection into Bulk Silicon to Construct Porous Frameworks with Concomitant Conformal Coating as Anodes for Li-Ion Batteries. <i>Scientific Reports</i> , 2015, 5, 10381.	3.3	15
84	Microscopic Dynamics of Li <sup>+</sup> in Rutile TiO <sub>2</sub> Revealed by <sup>7</sup> Li-Detected Nuclear Magnetic Resonance. <i>Chemistry of Materials</i> , 2017, 29, 10187-10197.	6.7	13
85	Stabilizing Low-Coordinated O Ions To Operate Cationic and Anionic Redox Chemistry of Li-Ion Battery Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 37768-37778.	8.0	13
86	Low-Overpotential LiF Splitting in Lithiated Fluoride Conversion Cathode Catalyzed by Spinel Oxide. <i>Advanced Functional Materials</i> , 2021, 31, 2009133.	14.9	12
87	Mg-Li Hybrid Batteries: The Combination of Fast Kinetics and Reduced Overpotential. <i>Energy Material Advances</i> , 2022, 2022, .	11.0	10
88	Bronze and pyrochlore type iron fluorides as cathode materials for Li/Na batteries. <i>Chinese Science Bulletin</i> , 2017, 62, 897-907.	0.7	8
89	Predicting Li-Rich Layered Oxide Compounds as High-Conductivity and Stable Solid Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 3793-3800.	17.4	5
90	Sandwich-Like Catalyst-Carbon-Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2020, 132, 12227-12236.	2.0	3

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91	Lithium Ion Repulsion-Enrichment Synergism Induced by Core-Shell Ionic Complexes to Enable High-Loading Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 23444.	2.0	2