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	Defectâ€Concentrationâ€Mediated Tâ€Nb₂O₅ Anodes for Durable and Fastâ€Charging Liâ€Ion Batteries. Advanced Functional Materials, 2022, 32, 2107060.	14.9	68
2	Mg-Li Hybrid Batteries: The Combination of Fast Kinetics and Reduced Overpotential. Energy Material Advances, 2022, 2022, .	11.0	10
3	Reversible Mg metal anode in conventional electrolyte enabled by durable heterogeneous SEI with low surface diffusion barrier. Energy Storage Materials, 2022, 46, 1-9.	18.0	37
4	NASICON-based solid state Li-Fe-F conversion batteries enabled by multi-interface-compatible sericin protein buffer layer. Energy Storage Materials, 2022, 47, 551-560.	18.0	31
5	High-density catalytic heterostructures strung by buried-in carbon tube network as monolithic holey host for endurable Li-S batteries. Chemical Engineering Journal, 2022, 446, 137294.	12.7	17
6	Pre-pulverizing Ni-rich layered oxide cathodes via â€œliquid explosiveâ€•infiltration toward highly endurable 4.5 V lithium batteries. Energy Storage Materials, 2022, 50, 819-828.	18.0	21
7	Triple Conductive Wiring by Electron Doping, Chelation Coating and Electrochemical Conversion in Fluffy Nb₂O₅ Anodes for Fastâ€Charging Liâ€Ion Batteries. Advanced Science, 2022, 9, .	11.2	33
8	Electrolyte formulation to enable ultra-stable aqueous Zn-organic batteries. Journal of Power Sources, 2021, 482, 228904.	7.8	24
9	Unlocking solid-state conversion batteries reinforced by hierarchical microsphere stacked polymer electrolyte. Science Bulletin, 2021, 66, 694-707.	9.0	73
10	Oxygen-defect-rich coating with nanoporous texture as both anode host and artificial SEI for dendrite-mitigated lithiumâ€“metal batteries. Journal of Materials Chemistry A, 2021, 9, 5606-5618.	10.3	40
11	Câ€“F-rich oil drop as a non-expendable fluid interface modifier with low surface energy to stabilize a Li metal anode. Energy and Environmental Science, 2021, 14, 3621-3631.	30.8	91
12	Tight bonding and high-efficiency utilization of Sâ€“S moieties to enable ultra-stable and high-capacity alkali-metal conversion batteries. Journal of Materials Chemistry A, 2021, 9, 6160-6171.	10.3	17
13	Lowâ€Overpotential LiF Splitting in Lithiated Fluoride Conversion Cathode Catalyzed by Spinel Oxide. Advanced Functional Materials, 2021, 31, 2009133.	14.9	12
14	Dynamical SEI Reinforced by Openâ€Architecture MOF Film with Stereoscopic Lithiophilic Sites for Highâ€Performance Lithiumâ€“Metal Batteries. Advanced Functional Materials, 2021, 31, 2101034.	14.9	59
15	Planting CuGa2 seeds assisted with liquid metal for selective wrapping deposition of lithium. Energy Storage Materials, 2021, 37, 466-475.	18.0	38
16	Consecutive Nucleation and Confinement Modulation towards Li Plating in Seeded Capsules for Durable Liâ€Metal Batteries. Angewandte Chemie, 2021, 133, 14159-14169.	2.0	16
17	Consecutive Nucleation and Confinement Modulation towards Li Plating in Seeded Capsules for Durable Liâ€Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 14040-14050.	13.8	70
18	Metal organic framework reinforced polymer electrolyte with high cation transference number to enable dendrite-free solid state Li metal conversion batteries. Journal of Power Sources, 2021, 501, 229946.	7.8	74

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19	Maximizing Magnesiation Capacity of Nanowire Cluster Oxides by Conductive Macromolecule Pillaring and Multication Intercalation. Small, 2021, 17, e2102168.	10.0	25
20	Lithium Ion Repulsionâ€Enrichment Synergism Induced by Coreâ€“Shell Ionic Complexes to Enable Highâ€Loading Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 23444.	2.0	2
21	Lithium Ion Repulsionâ€Enrichment Synergism Induced by Coreâ€“Shell Ionic Complexes to Enable Highâ€Loading Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 23256-23266.	13.8	55
22	Solid electrolytes reinforced by infinite coordination polymer nano-network for dendrite-free lithium metal batteries. Energy Storage Materials, 2021, 41, 436-447.	18.0	67
23	Predicting Li-Rich Layered Oxide Compounds as High-Conductivity and Stable Solid Electrolytes. ACS Energy Letters, 2021, 6, 3793-3800.	17.4	5
24	Construction of solid-liquid fluorine transport channel to enable highly reversible conversion cathodes. Science Advances, 2021, 7, eabj1491.	10.3	41
25	N/O dual-doped hollow carbon microspheres constructed by holey nanosheet shells as large-grain cathode host for high loading Li-S batteries. Energy Storage Materials, 2020, 24, 644-654.	18.0	93
26	In-situ crosslinked single ion gel polymer electrolyte with superior performances for lithium metal batteries. Chemical Engineering Journal, 2020, 382, 122935.	12.7	86
27	In Situ Sulfurized Carbon-Confined Cobalt for Long-Life Mg/S Batteries. ACS Applied Energy Materials, 2020, 3, 2516-2525.	5.1	23
28	Li2CO3-affiliative mechanism for air-accessible interface engineering of garnet electrolyte via facile liquid metal painting. Nature Communications, 2020, 11, 3716.	12.8	106
29	Shallow-layer pillaring of a conductive polymer in monolithic grains to drive superior zinc storage via a cascading effect. Energy and Environmental Science, 2020, 13, 3149-3163.	30.8	57
30	Robustness-Heterogeneity-Induced Ultrathin 2D Structure in Li Plating for Highly Reversible Liâ€“Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 46132-46145.	8.0	29
31	Garnet-Based Solid-State Lithium Fluoride Conversion Batteries Benefiting from Eutectic Interlayer of Superior Wettability. ACS Energy Letters, 2020, 5, 1167-1176.	17.4	79
32	A Na-rich fluorinated sulfate anti-perovskite with dual doping as solid electrolyte for Na metal solid state batteries. Energy Storage Materials, 2020, 31, 87-94.	18.0	29
33	Behind the Candelabra: A Facile Flame Vapor Deposition Method for Interfacial Engineering of Garnet Electrolyte To Enable Ultralong Cycling Solid-State Liâ€“FeF₃ Conversion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 33729-33739.	8.0	32
34	Lithium dendrite-free and fast-charging for high voltage nickel-rich lithium metal batteries enabled by bifunctional sulfone-containing electrolyte additives. Journal of Power Sources, 2020, 452, 227833.	7.8	40
35	High-conductivity open framework fluorinated electrolyte bonded by solidified ionic liquid wires for solid-state Li metal batteries. Energy Storage Materials, 2020, 28, 37-46.	18.0	58
36	Built-In Catalysis in Confined Nanoreactors for High-Loading Liâ€“S Batteries. ACS Nano, 2020, 14, 3365-3377.	14.6	147

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37	Ultrathin Defective Câ€“N Coating to Enable Nanostructured Li Plating for Li Metal Batteries. ACS Nano, 2020, 14, 1866-1878.	14.6	83
38	Sandwichâ€like Catalystâ€“Carbonâ€“Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2020, 132, 12227-12236.	2.0	3
39	Sandwichâ€like Catalystâ€“Carbonâ€“Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2020, 59, 12129-12138.	13.8	130
40	Conductive Holey MoO₂â€“Mo₃N₂ Heterojunctions as Job-Synergistic Cathode Host with Low Surface Area for High-Loading Liâ€“S Batteries. ACS Nano, 2019, 13, 10049-10061.	14.6	150
41	A branched cellulose-reinforced composite polymer electrolyte with upgraded ionic conductivity for anode stabilized solid-state Li metal batteries. Sustainable Energy and Fuels, 2019, 3, 2642-2656.	4.9	42
42	Adenine Derivative Host with Interlaced 2D Structure and Dual Lithiophilicâ€“Sulfiphilic Sites to Enable High-Loading Liâ€“S Batteries. ACS Nano, 2019, 13, 9520-9532.	14.6	137
43	Confinement effect and air tolerance of Li plating by lithiophilic poly(vinyl alcohol) coating for dendrite-free Li metal batteries. Journal of Materials Chemistry A, 2019, 7, 22257-22264.	10.3	47
44	Stabilizing Low-Coordinated O Ions To Operate Cationic and Anionic Redox Chemistry of Li-Ion Battery Materials. ACS Applied Materials & Interfaces, 2019, 11, 37768-37778.	8.0	13
45	Li-salt mediated Mg-rhodizonate batteries based on ultra-large cathode grains enabled by K-ion pillaring. Energy Storage Materials, 2019, 22, 218-227.	18.0	37
46	Liquid Polydimethylsiloxane Grafting to Enable Dendriteâ€Free Li Plating for Highly Reversible Liâ€Metal Batteries. Advanced Functional Materials, 2019, 29, 1902220.	14.9	137
47	Highly Reversible Conversion Anodes Composed of Ultralarge Monolithic Grains with Seamless Intragranular Binder and Wiring Network. ACS Applied Materials & Interfaces, 2019, 11, 23280-23290.	8.0	19
48	Unusual Conformal Li Plating on Alloyable Nanofiber Frameworks to Enable Dendrite Suppression of Li Metal Anode. ACS Applied Energy Materials, 2019, 2, 4379-4388.	5.1	35
49	Sericin protein as a conformal protective layer to enable air-endurable Li metal anodes and high-rate Li-S batteries. Journal of Power Sources, 2019, 419, 72-81.	7.8	80
50	Metalâ€“Organic Frameworks as Electrolyte Additives To Enable Ultrastable Plating/Stripping of Li Anode with Dendrite Inhibition. ACS Applied Materials & Interfaces, 2019, 11, 3869-3879.	8.0	84
51	Stacking of Tailored Chalcogenide Nanosheets around MoO₂-C Conductive Stakes Modulated by a Hybrid POMâŠ‚MOF Precursor Template: Composite Conversionâ€“Insertion Cathodes for Rechargeable Mgâ€“Li Dual-Salt Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5966-5977.	8.0	39
52	Carbon-based derivatives from metal-organic frameworks as cathode hosts for Liâ€“S batteries. Journal of Energy Chemistry, 2019, 38, 94-113.	12.9	104
53	LiF Splitting Catalyzed by Dual Metal Nanodomains for an Efficient Fluoride Conversion Cathode. ACS Nano, 2019, 13, 2490-2500.	14.6	27
54	Li metal batteries and solid state batteries benefiting from halogen-based strategies. Energy Storage Materials, 2018, 14, 100-117.	18.0	108

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55	High-Capacity Mgâ€“Organic Batteries Based on Nanostructured Rhodizonate Salts Activated by Mgâ€“Li Dual-Salt Electrolyte. ACS Nano, 2018, 12, 3424-3435.	14.6	115
56	High Rate Magnesiumâ€“Sulfur Battery with Improved Cyclability Based on Metalâ€“Organic Framework Derivative Carbon Host. Advanced Materials, 2018, 30, 1704166.	21.0	131
57	Electrochemically driven conversion reaction in fluoride electrodes for energy storage devices. Npj Computational Materials, 2018, 4, .	8.7	89
58	In Situ Plating of Porous Mg Network Layer to Reinforce Anode Dendrite Suppression in Li-Metal Batteries. ACS Applied Materials & Interfaces, 2018, 10, 12678-12689.	8.0	88
59	H-Nb2O5 wired by tetragonal tungsten bronze related domains as high-rate anode for Li-ion batteries. Energy Storage Materials, 2018, 11, 152-160.	18.0	75
60	High-Rate Nanostructured Pyrite Cathodes Enabled by Fluorinated Surface and Compact Grain Stacking via Sulfuration of Ionic Liquid Coated Fluorides. ACS Nano, 2018, 12, 12444-12455.	14.6	40
61	Nanostructured Li-Rich Fluoride Coated by Ionic Liquid as High Ion-Conductivity Solid Electrolyte Additive to Suppress Dendrite Growth at Li Metal Anode. ACS Applied Materials & Interfaces, 2018, 10, 34322-34331.	8.0	97
62	Cubic Perovskite Fluoride as Open Framework Cathode for Naâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1701130.	14.9	90
63	Nanostructured Carbon Nitride Polymer-Reinforced Electrolyte To Enable Dendrite-Suppressed Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2017, 9, 11615-11625.	8.0	109
64	Microscopic Dynamics of Li+ in Rutile TiO2 Revealed by 8Li Î²-Detected Nuclear Magnetic Resonance. Chemistry of Materials, 2017, 29, 10187-10197.	6.7	13
65	Supernormal Conversion Anode Consisting of High-Density MoS₂ Bubbles Wrapped in Thin Carbon Network by Self-Sulfuration of Polyoxometalate Complex. ACS Nano, 2017, 11, 7390-7400.	14.6	110
66	Bronze and pyrochlore type iron fluorides as cathode materials for Li/Na batteries. Chinese Science Bulletin, 2017, 62, 897-907.	0.7	8
67	Tetragonal Tungsten Bronze Framework as Potential Anode for Na-Ion Batteries. Chemistry of Materials, 2016, 28, 3139-3147.	6.7	48
68	Iron-based fluorides of tetragonal tungsten bronze structure as potential cathodes for Na-ion batteries. Journal of Materials Chemistry A, 2016, 4, 7382-7389.	10.3	57
69	High-Capacity Molecular Scale Conversion Anode Enabled by Hybridizing Cluster-Type Framework of High Loading with Amino-Functionalized Graphene. ACS Nano, 2016, 10, 5304-5313.	14.6	124
70	Dehydrating bronze iron fluoride as a high capacity conversion cathode for lithium batteries. Journal of Materials Chemistry A, 2016, 4, 16166-16174.	10.3	58
71	Job-sharing cathode design for Liâ€“O₂batteries with high energy efficiency enabled by in situ ionic liquid bonding to cover carbon surface defects. Journal of Materials Chemistry A, 2016, 4, 241-249.	10.3	31
72	Dualâ€Salt Mgâ€Based Batteries with Conversion Cathodes. Advanced Functional Materials, 2015, 25, 7300-7308.	14.9	111

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73	Eutectic Nano-Droplet Template Injection into Bulk Silicon to Construct Porous Frameworks with Concomitant Conformal Coating as Anodes for Li-Ion Batteries. Scientific Reports, 2015, 5, 10381.	3.3	15
74	Hydrogen-bonding-mediated structural stability and electrochemical performance of iron fluoride cathode materials. Journal of Materials Chemistry A, 2015, 3, 16222-16228.	10.3	34
75	Transitionâ€Metalâ€Free Magnesiumâ€Based Batteries Activated by Anionic Insertion into Fluorinated Graphene Nanosheets. Advanced Functional Materials, 2015, 25, 6519-6526.	14.9	66
76	Reaction pathway and wiring network dependent Li/Na storage of micro-sized conversion anode with mesoporosity and metallic conductivity. Journal of Materials Chemistry A, 2015, 3, 509-514.	10.3	37
77	Long-life Naâ€“O2 batteries with high energy efficiency enabled by electrochemically splitting NaO2 at a low overpotential. Physical Chemistry Chemical Physics, 2014, 16, 15646.	2.8	138
78	Sodium Storage and Pseudocapacitive Charge in Textured Li₄Ti₅O₁₂ Thin Films. Journal of Physical Chemistry C, 2014, 118, 10616-10624.	3.1	150
79	Metal-Induced Crystallization of Highly Corrugated Silicon Thick Films as Potential Anodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 8782-8788.	8.0	35
80	Densification and ionic-conduction improvement of lithium garnet solid electrolytes by flowing oxygen sintering. Journal of Power Sources, 2014, 248, 642-646.	7.8	175
81	An FeF₃Â·0.5H₂O Polytype: A Microporous Framework Compound with Intersecting Tunnels for Li and Na Batteries. Journal of the American Chemical Society, 2013, 135, 11425-11428.	13.7	177
82	Top-Down Synthesis of Open Framework Fluoride for Lithium and Sodium Batteries. Chemistry of Materials, 2013, 25, 962-969.	6.7	117
83	A Highâ€Capacity Cathode for Lithium Batteries Consisting of Porous Microspheres of Highly Amorphized Iron Fluoride Densified from Its Open Parent Phase. Advanced Energy Materials, 2013, 3, 113-119.	19.5	111
84	Charge Carrier Accumulation in Lithium Fluoride Thin Films due to Li-Ion Absorption by Titania (100) Subsurface. Nano Letters, 2012, 12, 1241-1246.	9.1	58
85	Ionic space charge effects in lithium fluoride thin films. Solid State Ionics, 2012, 225, 408-411.	2.7	28
86	Enhancement of the Li Conductivity in LiF by Introducing Glass/Crystal Interfaces. Advanced Functional Materials, 2012, 22, 1145-1149.	14.9	104
87	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. ACS Nano, 2011, 5, 2930-2938.	14.6	149
88	Direct Observation of Lithium Staging in Partially Delithiated LiFePO₄ at Atomic Resolution. Journal of the American Chemical Society, 2011, 133, 4661-4663.	13.7	219
89	A Mesoporous Ironâ€Based Fluoride Cathode of Tunnel Structure for Rechargeable Lithium Batteries. Advanced Functional Materials, 2011, 21, 1391-1397.	14.9	149
90	Ionic Spaceâ€Charge Depletion in Lithium Fluoride Thin Films on Sapphire (0001) Substrates. Advanced Functional Materials, 2011, 21, 2901-2905.	14.9	27

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91	Lowâ€Temperature Ionicâ€Liquidâ€Based Synthesis of Nanostructured Ironâ€Based Fluoride Cathodes for Lithium Batteries. Advanced Materials, 2010, 22, 3650-3654.	21.0	209