Bao-Hua Li

List of Publications by Year
in descending order

184	19,027	8755 75	12272 133
papers	citations	h-index	g-index

186	186	186	15739
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Twinborn TiO₂â€“TiN heterostructures enabling smooth trappingâ€“diffusionâ€“conversion of polysulfides towards ultralong life lithiumâ€“sulfur batteries. Energy and Environmental Science, 2017, 10, 1694-1703.	30.8	884
2	Chemical Dealloying Derived 3D Porous Current Collector for Li Metal Anodes. Advanced Materials, 2016, 28, 6932-6939.	21.0	751
3	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. Energy and Environmental Science, 2018, 11, 941-951.	30.8	731
4	Dendriteâ€Free, Highâ€Rate, Longâ€Life Lithium Metal Batteries with a 3D Crossâ€Linked Network Polymer Electrolyte. Advanced Materials, 2017, 29, 1604460.	21.0	604
5	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. ACS Nano, 2018, 12, 3140-3148.	14.6	439
6	Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery Research. Advanced Materials, 2019, 31, e1806620.	21.0	390
7	Low Resistanceâ€“Integrated Allâ€Solidâ€State Battery Achieved by Li₇La₃Zr₂O₁₂ Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder. Advanced Functional Materials, 2019, 29, 1805301.	14.9	390
8	Novel gel polymer electrolyte for high-performance lithiumâ€“sulfur batteries. Nano Energy, 2016, 22, 278-289.	16.0	382
9	A room-temperature sodiumâ€“sulfur battery with high capacity and stable cycling performance. Nature Communications, 2018, 9, 3870.	12.8	367
10	Challenges and perspectives of garnet solid electrolytes for all solid-state lithium batteries. Journal of Power Sources, 2018, 389, 120-134.	7.8	359
11	SiO₂ Hollow Nanosphereâ€Based Composite Solid Electrolyte for Lithium Metal Batteries to Suppress Lithium Dendrite Growth and Enhance Cycle Life. Advanced Energy Materials, 2016, 6, 1502214.	19.5	346
12	Compact 3D Copper with Uniform Porous Structure Derived by Electrochemical Dealloying as Dendriteâ€Free Lithium Metal Anode Current Collector. Advanced Energy Materials, 2018, 8, 1800266.	19.5	336
13	Facile synthesis of Li4Ti5O12/C composite with super rate performance. Energy and Environmental Science, 2012, 5, 9595.	30.8	323
14	In Situ Synthesis of a Hierarchical Allâ€Solidâ€State Electrolyte Based on Nitrile Materials for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500353.	19.5	300
15	Deepâ€Eutecticâ€Solventâ€Based Selfâ€Healing Polymer Electrolyte for Safe and Longâ€Life Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 9134-9142.	13.8	292
16	Highly Flexible Graphene/Mn₃O₄ Nanocomposite Membrane as Advanced Anodes for Li-Ion Batteries. ACS Nano, 2016, 10, 6227-6234.	14.6	291
17	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. Nature Communications, 2019, 10, 725.	12.8	289
18	Organic quinones towards advanced electrochemical energy storage: recent advances and challenges. Journal of Materials Chemistry A, 2019, 7, 23378-23415.	10.3	248

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19	Scalable fabrication of MnO₂ nanostructure deposited on free-standing Ni nanocone arrays for ultrathin, flexible, high-performance micro-supercapacitor. Energy and Environmental Science, 2014, 7, 2652-2659.	30.8	247
20	Interface chemistry of an amide electrolyte for highly reversible lithium metal batteries. Nature Communications, 2020, 11, 4188.	12.8	226
21	Advanced Nanostructured Anode Materials for Sodiumâ€Ion Batteries. Small, 2017, 13, 1701835.	10.0	206
22	Revealing High Na-Content P2-Type Layered Oxides as Advanced Sodium-Ion Cathodes. Journal of the American Chemical Society, 2020, 142, 5742-5750.	13.7	206
23	In situ synthesis of hierarchical poly(ionic liquid)-based solid electrolytes for high-safety lithium-ion and sodium-ion batteries. Nano Energy, 2017, 33, 45-54.	16.0	205
24	Ultrafine TiO₂ Decorated Carbon Nanofibers as Multifunctional Interlayer for High-Performance Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2016, 8, 23105-23113.	8.0	200
25	Progress and Perspective of Solidâ€State Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1707570.	14.9	194
26	Suppressing Selfâ€Discharge and Shuttle Effect of Lithiumâ€“Sulfur Batteries with V₂O₅â€Decorated Carbon Nanofiber Interlayer. Small, 2017, 13, 1602539.	10.0	190
27	Dense coating of Li4Ti5O12 and graphene mixture on the separator to produce long cycle life of lithium-sulfur battery. Nano Energy, 2016, 30, 1-8.	16.0	179
28	A Stable Quasiâ€Solidâ€State Sodiumâ€“Sulfur Battery. Angewandte Chemie - International Edition, 2018, 57, 10168-10172.	13.8	178
29	Deep Eutectic Solvents for Boosting Electrochemical Energy Storage and Conversion: A Review and Perspective. Advanced Functional Materials, 2021, 31, 2011102.	14.9	172
30	An Ultralong, Highly Oriented Nickelâ€Nanowireâ€Array Electrode Scaffold for Highâ€Performance Compressible Pseudocapacitors. Advanced Materials, 2016, 28, 4105-4110.	21.0	171
31	High electrochemical stability of a 3D cross-linked network PEO@nano-SiO₂ composite polymer electrolyte for lithium metal batteries. Journal of Materials Chemistry A, 2019, 7, 6832-6839.	10.3	164
32	Co-electro-deposition of the MnO2â€“PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. Journal of Materials Chemistry A, 2013, 1, 12432.	10.3	163
33	A review of gassing behavior in Li₄Ti₅O₁₂-based lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 6368-6381.	10.3	157
34	Boosting Sodium Storage in Two-Dimensional Phosphorene/Ti₃C₂T_x MXene Nanoarchitectures with Stable Fluorinated Interphase. ACS Nano, 2020, 14, 3651-3659.	14.6	155
35	Electrosprayed silicon-embedded porous carbon microspheres as lithium-ion battery anodes with exceptional rate capacities. Carbon, 2018, 127, 424-431.	10.3	150
36	NaCl-templated synthesis of hierarchical porous carbon with extremely large specific surface area and improved graphitization degree for high energy density lithium ion capacitors. Journal of Materials Chemistry A, 2018, 6, 17057-17066.	10.3	149

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37	Comprehensive Review of P2-Type Na_{2/3}Ni_{1/3}Mn_{2/3}O₂, a Potential Cathode for Practical Application of Na-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 22051-22066.	8.0	148
38	Redoxâ€Active Organic Sodium Anthraquinoneâ€2â€Sulfonate (AQS) Anchored on Reduced Graphene Oxide for Highâ€Performance Supercapacitors. Advanced Energy Materials, 2018, 8, 1802088.	19.5	147
39	Raman Evidence for Late Stage Disproportionation in a Liâ€“O₂ Battery. Journal of Physical Chemistry Letters, 2014, 5, 2705-2710.	4.6	144
40	Carbon coating to suppress the reduction decomposition of electrolyte on the Li4Ti5O12 electrode. Journal of Power Sources, 2012, 202, 253-261.	7.8	142
41	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li₄Ti₅O₁₂ Spheres of Densely Packed Nanocrystallites. Chemistry of Materials, 2015, 27, 5647-5656.	6.7	142
42	An in-plane heterostructure of graphene and titanium carbide for efficient polysulfide confinement. Nano Energy, 2017, 39, 291-296.	16.0	142
43	An interwoven MoO₃@CNT scaffold interlayer for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 8612-8619.	10.3	141
44	Quasi-Solid-State Dual-Ion Sodium Metal Batteries for Low-Cost Energy Storage. CheM, 2020, 6, 902-918.	11.7	137
45	Future paper based printed circuit boards for green electronics: fabrication and life cycle assessment. Energy and Environmental Science, 2014, 7, 3674-3682.	30.8	136
46	Fe3O4 nanoparticles encapsulated in electrospun porous carbon fibers with a compact shell as high-performance anode for lithium ion batteries. Carbon, 2015, 87, 347-356.	10.3	131
47	A honeycomb-cobweb inspired hierarchical coreâ€“shell structure design for electrospun silicon/carbon fibers as lithium-ion battery anodes. Carbon, 2016, 98, 582-591.	10.3	128
48	Hierarchical MoS₂/Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 5668-5677.	10.3	128
49	Pseudocapacitive anthraquinone modified with reduced graphene oxide for flexible symmetric all-solid-state supercapacitors. Carbon, 2018, 127, 459-468.	10.3	123
50	N and S co-doped porous carbon spheres prepared using <scp>l</scp>-cysteine as a dual functional agent for high-performance lithiumâ€“sulfur batteries. Chemical Communications, 2015, 51, 17720-17723.	4.1	121
51	Fe₃O₄-Decorated Porous Graphene Interlayer for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 26264-26273.	8.0	117
52	Recent innovative configurations in high-energy lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 5222-5234.	10.3	115
53	Coâ€“B Nanoflakes as Multifunctional Bridges in ZnCo₂O₄ Microâ€Nanospheres for Superior Lithium Storage with Boosted Kinetics and Stability. Advanced Energy Materials, 2019, 9, 1803612.	19.5	114
54	Spherical Li Deposited inside 3D Cu Skeleton as Anode with Ultrastable Performance. ACS Applied Materials & Interfaces, 2018, 10, 20244-20249.	8.0	113

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55	Ultrafine Titanium Nitride Sheath Decorated Carbon Nanofiber Network Enabling Stable Lithium Metal Anodes. Advanced Functional Materials, 2019, 29, 1903229.	14.9	112
56	Electrosprayed porous Fe3O4/carbon microspheres as anode materials for high-performance lithium-ion batteries. Nano Research, 2018, 11, 892-904.	10.4	110
57	Advanced Matrixes for Binderâ€Free Nanostructured Electrodes in Lithiumâ€Ion Batteries. Advanced Materials, 2020, 32, e1908445.	21.0	108
58	Self-Healing Janus Interfaces for High-Performance LAGP-Based Lithium Metal Batteries. ACS Energy Letters, 2020, 5, 1456-1464.	17.4	104
59	Sandwich-like CNTs/Si/C nanotubes as high performance anode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 14797-14804.	10.3	103
60	Oxygen and nitrogen co-doped porous carbon granules enabling dendrite-free lithium metal anode. Energy Storage Materials, 2019, 18, 320-327.	18.0	102
61	Electrospun coreâ€“shell silicon/carbon fibers with an internal honeycomb-like conductive carbon framework as an anode for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 7112-7120.	10.3	99
62	Nanostructured Anode Materials for Nonâ€aqueous Lithium Ion Hybrid Capacitors. Energy and Environmental Materials, 2018, 1, 75-87.	12.8	97
63	A three-dimensional graphene skeleton as a fast electron and ion transport network for electrochemical applications. Journal of Materials Chemistry A, 2014, 2, 3031.	10.3	96
64	Investigation of cyano resin-based gel polymer electrolyte: in situ gelation mechanism and electrodeâ€“electrolyte interfacial fabrication in lithium-ion battery. Journal of Materials Chemistry A, 2014, 2, 20059-20066.	10.3	92
65	Long-cycling and safe lithium metal batteries enabled by the synergetic strategy of ex situ anodic pretreatment and an in-built gel polymer electrolyte. Journal of Materials Chemistry A, 2020, 8, 7197-7204.	10.3	91
66	â€œAllâ€inâ€Oneâ€•Nanoparticles for Trimodality Imagingâ€Guided Intracellular Photoâ€magnetic Hyperthermia Therapy under Intravenous Administration. Advanced Functional Materials, 2018, 28, 1705710.	14.9	90
67	A Simple Method for the Complete Performance Recovery of Degraded Ni-rich LiNi_{0.70}Co_{0.15}Mn_{0.15}O₂ Cathode via Surface Reconstruction. ACS Applied Materials & Interfaces, 2019, 11, 14076-14084.	8.0	89
68	Biopolymer-assisted synthesis of 3D interconnected Fe3O4@carbon core@shell as anode for asymmetric lithium ion capacitors. Carbon, 2018, 140, 296-305.	10.3	88
69	How a very trace amount of graphene additive works for constructing an efficient conductive network in LiCoO2-based lithium-ion batteries. Carbon, 2016, 103, 356-362.	10.3	87
70	A dual-functional gel-polymer electrolyte for lithium ion batteries with superior rate and safety performances. Journal of Materials Chemistry A, 2017, 5, 18888-18895.	10.3	85
71	A carbon sandwich electrode with graphene filling coated by N-doped porous carbon layers for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 20218-20224.	10.3	83
72	Abuse tolerance behavior of layered oxide-based Li-ion battery during overcharge and over-discharge. RSC Advances, 2016, 6, 76897-76904.	3.6	80

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73	Advances in Understanding Materials for Rechargeable Lithium Batteries by Atomic Force Microscopy. Energy and Environmental Materials, 2018, 1, 28-40.	12.8	80
74	Li-ion and Na-ion transportation and storage properties in various sized TiO₂ spheres with hierarchical pores and high tap density. Journal of Materials Chemistry A, 2017, 5, 4359-4367.	10.3	78
75	Exploring Stability of Nonaqueous Electrolytes for Potassium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 1828-1833.	5.1	78
76	High-Performance Quasi-Solid-State MXene-Based Liâ€“I Batteries. ACS Central Science, 2019, 5, 365-373.	11.3	78
77	Constructing Effective Interfaces for Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Pellets To Achieve Room-Temperature Hybrid Solid-State Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2019, 11, 9911-9918.	8.0	77
78	Enhanced performance of interconnected LiFePO4/C microspheres with excellent multiple conductive network and subtle mesoporous structure. Electrochimica Acta, 2015, 152, 398-407.	5.2	75
79	In-Plane Highly Dispersed Cu₂O Nanoparticles for Seeded Lithium Deposition. Nano Letters, 2019, 19, 4601-4607.	9.1	75
80	Safe LAGP-based all solid-state Li metal batteries with plastic super-conductive interlayer enabled by in-situ solidification. Energy Storage Materials, 2020, 25, 613-620.	18.0	72
81	Hollow titanium dioxide spheres as anode material for lithium ion battery with largely improved rate stability and cycle performance by suppressing the formation of solid electrolyte interface layer. Journal of Materials Chemistry A, 2015, 3, 13340-13349.	10.3	71
82	Influence of over-discharge on the lifetime and performance of LiFePO₄/graphite batteries. RSC Advances, 2016, 6, 30474-30483.	3.6	71
83	A sliced orange-shaped ZnCo 2 O 4 material as anode for high-performance lithium ion battery. Energy Storage Materials, 2017, 6, 61-69.	18.0	71
84	State-of-health (SOH) evaluation on lithium-ion battery by simulating the voltage relaxation curves. Electrochimica Acta, 2019, 303, 183-191.	5.2	70
85	Tailoring Microstructure of Grapheneâ€Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. Advanced Functional Materials, 2014, 24, 3456-3463.	14.9	67
86	Unusual High Oxygen Reduction Performance in All-Carbon Electrocatalysts. Scientific Reports, 2014, 4, 6289.	3.3	67
87	Deterioration mechanism of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂/graphiteâ€“SiO_x power batteries under high temperature and discharge cycling conditions. Journal of Materials Chemistry A, 2018, 6, 65-72.	10.3	66
88	Cyclized-polyacrylonitrile modified carbon nanofiber interlayers enabling strong trapping of polysulfides in lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 12973-12980.	10.3	64
89	Dual-functional hard template directed one-step formation of a hierarchical porous carbonâ€“carbon nanotube hybrid for lithiumâ€“sulfur batteries. Chemical Communications, 2016, 52, 12143-12146.	4.1	63
90	Controlled synthesis of anisotropic hollow ZnCo2O4 octahedrons for high-performance lithium storage. Energy Storage Materials, 2018, 11, 184-190.	18.0	63

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91	Mildly-expanded graphite with adjustable interlayer distance as high-performance anode for potassium-ion batteries. Carbon, 2021, 172, 200-206.	10.3	63
92	Positive film-forming effect of fluoroethylene carbonate (FEC) on high-voltage cycling with three-electrode LiCoO2/Graphite pouch cell. Electrochimica Acta, 2018, 269, 378-387.	5.2	62
93	Monodispersed SnO 2 nanospheres embedded in framework of graphene and porous carbon as anode for lithium ion batteries. Energy Storage Materials, 2016, 3, 98-105.	18.0	60
94	Transition metal assisted synthesis of tunable pore structure carbon with high performance as sodium/lithium ion battery anode. Carbon, 2018, 129, 667-673.	10.3	58
95	Ultrafast-Charging and Long-Life Li-Ion Battery Anodes of TiO₂-B and Anatase Dual-Phase Nanowires. ACS Applied Materials & Interfaces, 2017, 9, 35917-35926.	8.0	57
96	Boost Anion Storage Capacity Using Conductive Polymer as a Pseudocapacitive Cathode for High-Energy and Flexible Lithium Ion Capacitors. ACS Applied Materials & Interfaces, 2020, 12, 10479-10489.	8.0	57
97	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solidâ€State Batteries with Long Cycle Life. Advanced Energy Materials, 2021, 11, 2101370.	19.5	56
98	Highly Crystalline Lithium Titanium Oxide Sheets Coated with Nitrogenâ€Doped Carbon enable Highâ€Rate Lithiumâ€Ion Batteries. ChemSusChem, 2014, 7, 2567-2574.	6.8	55
99	Electrospun Nâ€Doped Hierarchical Porous Carbon Nanofiber with Improved Degree of Graphitization for Highâ€Performance Lithium Ion Capacitor. Chemistry - A European Journal, 2018, 24, 10460-10467.	3.3	55
100	Electrosprayed multiscale porous carbon microspheres as sulfur hosts for long-life lithium-sulfur batteries. Carbon, 2019, 141, 16-24.	10.3	54
101	Large Polarization of Li₄Ti₅O₁₂ Lithiated to 0 V at Large Charge/Discharge Rates. ACS Applied Materials & Interfaces, 2016, 8, 18788-18796.	8.0	51
102	Understanding the cathode electrolyte interface formation in aqueous electrolyte by scanning electrochemical microscopy. Journal of Materials Chemistry A, 2019, 7, 12993-12996.	10.3	49
103	A scalable slurry process to fabricate a 3D lithiophilic and conductive framework for a high performance lithium metal anode. Journal of Materials Chemistry A, 2019, 7, 13225-13233.	10.3	49
104	Precise separation of spent lithium-ion cells in water without discharging for recycling. Energy Storage Materials, 2022, 45, 1092-1099.	18.0	49
105	Stabilizing a sodium-metal battery with the synergy effects of a sodiophilic matrix and fluorine-rich interface. Journal of Materials Chemistry A, 2019, 7, 24857-24867.	10.3	48
106	Stable Cycling of High-Voltage Lithium-Metal Batteries Enabled by High-Concentration FEC-Based Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 22901-22909.	8.0	48
107	Conductive graphene-based macroscopic membrane self-assembled at a liquidâ€“air interface. Journal of Materials Chemistry, 2011, 21, 3359.	6.7	46
108	Increase and discretization of the energy barrier for individual LiNi_xCo_yMn_yO₂ (x + 2y =1) particles with the growth of a Li₂CO₃ surface film. Journal of Materials Chemistry A, 2019, 7, 12723-12731.	10.3	43

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109	High-Energy and High-Power Nonaqueous Lithium-Ion Capacitors Based on Polypyrrole/Carbon Nanotube Composites as Pseudocapacitive Cathodes. ACS Applied Materials & Interfaces, 2019, 11, 15646-15655.	8.0	43
110	Study on the reversible capacity loss of layered oxide cathode during low-temperature operation. Journal of Power Sources, 2017, 342, 24-30.	7.8	42
111	A novel three-step approach to separate cathode components for lithium-ion battery recycling. Rare Metals, 2021, 40, 1431-1436.	7.1	42
112	The different Li/Na ion storage mechanisms of nano Sb 2 O 3 anchored on graphene. Journal of Power Sources, 2018, 385, 114-121.	7.8	41
113	Sodiumâ€rich <scp>NASICON</scp>â€structured cathodes for boosting the energy density and lifespan of sodiumâ€freeâ€anode sodium metal batteries. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	41
114	Effects of solvent on structures and properties of electrospun poly(ethylene oxide) nanofibers. Journal of Applied Polymer Science, 2018, 135, 45787.	2.6	40
115	High-performance Li₆PS₅Cl-based all-solid-state lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18612-18618.	10.3	40
116	Basal Nanosuit of Graphite for High-Energy Hybrid Li Batteries. ACS Nano, 2020, 14, 1837-1845.	14.6	40
117	A Facile Surface Reconstruction Mechanism toward Better Electrochemical Performance of Li₄Ti₅O₁₂ in Lithiumâ€ion Battery. Advanced Science, 2017, 4, 1700205.	11.2	37
118	Conductive Polyacrylic Acid-Polyaniline as a Multifunctional Binder for Stable Organic Quinone Electrodes of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 39630-39638.	8.0	37
119	Correlation between Microstructure and Potassium Storage Behavior in Reduced Graphene Oxide Materials. ACS Applied Materials & Interfaces, 2019, 11, 45578-45585.	8.0	34
120	Restructured rimous copper foam as robust lithium host. Energy Storage Materials, 2020, 26, 250-259.	18.0	34
121	Smart construction of multifunctional Li1.5Al0.5Ge1.5(PO4)3	Li intermediate interfaces for solid-state batteries. Energy Storage Materials, 2022, 46, 68-75.	18.0	34
122	A Novel Lithiated Siliconâ€“Sulfur Battery Exploiting an Optimized Solidâ€Like Electrolyte to Enhance Safety and Cycle Life. Small, 2017, 13, 1602015.	10.0	33
123	Hierarchically structured carbon nanomaterials for electrochemical energy storage applications. Journal of Materials Research, 2018, 33, 1058-1073.	2.6	33
124	Facile Synthesis of Antâ€Nestâ€Like Porous Duplex Copper as Deeply Cycling Host for Lithium Metal Anodes. Small, 2020, 16, e2001784.	10.0	33
125	Synthesis of Lithium Iron Phosphate/Carbon Microspheres by Using Polyacrylic Acid Coated Iron Phosphate Nanoparticles Derived from Iron(III) Acrylate. ChemSusChem, 2015, 8, 1009-1016.	6.8	31
126	A biscuit-like separator enabling high performance lithium batteries by continuous and protected releasing of NO3â^' in carbonate electrolyte. Energy Storage Materials, 2020, 24, 229-236.	18.0	31

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127	Liâ€ion Reaction to Improve the Rate Performance of Nanoporous Anatase TiO₂ Anodes. Energy Technology, 2013, 1, 668-674.	3.8	30
128	Achieving Low Overpotential Lithiumâ€“Oxygen Batteries by Exploiting a New Electrolyte Based on N,Nâ€²-Dimethylpropyleneurea. ACS Energy Letters, 2017, 2, 313-318.	17.4	30
129	Lowering the charge overpotential of Li₂S via the inductive effect of phenyl diselenide in Liâ€“S batteries. Chemical Communications, 2019, 55, 7655-7658.	4.1	30
130	Evolution of Solid Electrolyte Interface on TiO₂ Electrodes in an Aqueous Li-Ion Battery Studied Using Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2019, 123, 12797-12806.	3.1	30
131	In Situ Observation of Interface Evolution on a Graphite Anode by Scanning Electrochemical Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 37047-37053.	8.0	30
132	Simultaneously Homogenized Electric Field and Ionic Flux for Reversible Ultrahigh-Areal-Capacity Li Deposition. Nano Letters, 2020, 20, 5662-5669.	9.1	29
133	Mesoporous Cr₂O₃ nanotubes as an efficient catalyst for Liâ€“O₂ batteries with low charge potential and enhanced cyclic performance. Journal of Materials Chemistry A, 2016, 4, 7727-7735.	10.3	28
134	Abundant grain boundaries activate highly efficient lithium ion transportation in high rate Li4Ti5O12 compact microspheres. Journal of Materials Chemistry A, 2019, 7, 1168-1176.	10.3	28
135	Discovering a First-Order Phase Transition in the Liâ€“CeO₂ System. Nano Letters, 2017, 17, 1282-1288.	9.1	27
136	Combination Effect of Bulk Structure Change and Surface Rearrangement on the Electrochemical Kinetics of LiNi_{0.80}Co_{0.15}Al_{0.05}O₂ During Initial Charging Processes. ACS Applied Materials & Interfaces, 2018, 10, 41370-41379.	8.0	27
137	Room-temperature extraction of individual elements from charged spent LiFePO4 batteries. Rare Metals, 2022, 41, 1595-1604.	7.1	27
138	Acetic acid-induced preparation of anatase TiO₂ mesocrystals at low temperature for enhanced Li-ion storage. Journal of Materials Chemistry A, 2017, 5, 12236-12242.	10.3	26
139	A Dual-Function Na₂SO₄Template Directed Formation of Cathode Materials with a High Content of Sulfur Nanodots for Lithium-Sulfur Batteries. Small, 2017, 13, 1700358.	10.0	26
140	General synthesis of high-performing magneto-conjugated polymer coreâ€“shell nanoparticles for multifunctional theranostics. Nano Research, 2017, 10, 704-717.	10.4	26
141	Crystallized lithium titanate nanosheets prepared via spark plasma sintering for ultra-high rate lithium ion batteries. Journal of Materials Chemistry A, 2019, 7, 455-460.	10.3	26
142	High catalytic activity of anatase titanium dioxide for decomposition of electrolyte solution in lithium ion battery. Journal of Power Sources, 2014, 268, 882-886.	7.8	25
143	Rate-independent and ultra-stable low-temperature sodium storage in pseudocapacitive TiO₂nanowires. Journal of Materials Chemistry A, 2019, 7, 19297-19304.	10.3	25
144	An Efficient Synthetic Method to Prepare High-Performance Ni-rich LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ for Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7403-7411.	5.1	25

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145	Effect of Fluoroethylene Carbonate on Solid Electrolyte Interphase Formation of the SiO/C Anode Observed by In Situ Atomic Force Microscopy. ACS Applied Energy Materials, 2021, 4, 492-499.	5.1	25
146	Utilizing an autogenously protective atmosphere to synthesize a Prussian white cathode with ultrahigh capacity-retention for potassium-ion batteries. Chemical Communications, 2019, 55, 12555-12558.	4.1	24
147	Lithium metal recycling from spent lithium-ion batteries by cathode overcharging process. Rare Metals, 2022, 41, 1843-1850.	7.1	24
148	A Comparative Investigation of Single Crystal and Polycrystalline Niâ€Rich NCMs as Cathodes for Lithiumâ€Ion Batteries. Energy and Environmental Materials, 2023, 6, .	12.8	23
149	Horizontal Stress Release for Protuberanceâ€Free Li Metal Anode. Advanced Functional Materials, 2020, 30, 2002522.	14.9	22
150	Promoting the reversibility of lithium ion/lithium metal hybrid graphite anode by regulating solid electrolyte interface. Nano Energy, 2021, 90, 106510.	16.0	20
151	Nanoscale observation of the solid electrolyte interface and lithium dendrite nucleationâ€“growth process during the initial lithium electrodeposition. Journal of Materials Chemistry A, 2020, 8, 18348-18357.	10.3	19
152	Designing Advanced Liquid Electrolytes for Alkali Metal Batteries: Principles, Progress, and Perspectives. Energy and Environmental Materials, 2023, 6, .	12.8	19
153	A single-crystal nickel-rich material as a highly stable cathode for lithium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 19680-19689.	10.3	18
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