

Baohua Li

List of Publications by Year in descending order

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157
papers

17,681
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11651

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all docs

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docs citations

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times ranked

14300
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#	ARTICLE	IF	CITATIONS
1	A Comparative Investigation of Single Crystal and Polycrystalline Ni-Rich NCMs as Cathodes for Lithium-Ion Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	23
2	Stabilizing sodium metal anode through facile construction of organic-metal interface. <i>Journal of Energy Chemistry</i> , 2022, 66, 133-139.	12.9	24
3	A single-crystal nickel-rich material as a highly stable cathode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19680-19689.	10.3	18
4	Synthesis design of interfacial nanostructure for nickel-rich layered cathodes. <i>Nano Energy</i> , 2022, 97, 107119.	16.0	14
5	Multi-functional modification of nickel-rich lithium cathode materials using $\text{Na}_2\text{PO}_3\text{F}$. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11437-11448.	10.3	4
6	Transference Number Reinforced-Based Gel Copolymer Electrolyte for Dendrite-Free Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26612-26621.	8.0	11
7	An in-depth understanding of the effect of aluminum doping in high-nickel cathodes for lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 34, 229-240.	18.0	120
8	Ultrahigh capacity and cyclability of dual-phase TiO_2 nanowires with low working potential at room and subzero temperatures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9256-9265.	10.3	13
9	Identical cut-off voltage versus equivalent capacity: an objective evaluation of the impact of dopants in layered oxide cathodes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11219-11227.	10.3	12
10	Effect of Fluoroethylene Carbonate on Solid Electrolyte Interphase Formation of the SiO/C Anode Observed by In Situ Atomic Force Microscopy. <i>ACS Applied Energy Materials</i> , 2021, 4, 492-499.	5.1	25
11	Deep Eutectic Solvents for Boosting Electrochemical Energy Storage and Conversion: A Review and Perspective. <i>Advanced Functional Materials</i> , 2021, 31, 2011102.	14.9	172
12	Heterogeneous Degradation in Thick Nickel-Rich Cathodes During High-Temperature Storage and Mitigation of Thermal Instability by Regulating Cationic Disorder. <i>Small</i> , 2021, 17, e2102055.	10.0	8
13	In Situ Constructed Ionic-Electronic Dual-Conducting Scaffold with Reinforced Interface for High-Performance Sodium Metal Anodes. <i>Small</i> , 2021, 17, e2104021.	10.0	17
14	A nanoscale interlayer void design enabling high-performance SnO_2 -carbon anodes. <i>Carbon</i> , 2021, 183, 486-494.	10.3	12
15	Recent progress and challenges on the bismuth-based anode for sodium-ion batteries and potassium-ion batteries. <i>Materials Today Physics</i> , 2021, 21, 100486.	6.0	29
16	Rational design of carbon nanotube architectures for lithium-chalcogen batteries: Advances and perspectives. <i>Energy Storage Materials</i> , 2021, 42, 723-752.	18.0	20
17	Dendrite-free lithium deposition enabled by a vertically aligned graphene pillar architecture. <i>Carbon</i> , 2021, 185, 152-160.	10.3	14
18	Promoting the reversibility of lithium ion/lithium metal hybrid graphite anode by regulating solid electrolyte interface. <i>Nano Energy</i> , 2021, 90, 106510.	16.0	20

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19	A green water-induced spinel heterostructure interface enabling high performance lithium and manganese rich oxides. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20576-20584.	10.3	3
20	The rise of metal-organic frameworks for electrolyte applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20837-20856.	10.3	26
21	Synthesis design of a 3D interfacial structure for highly reversible lithium deposition. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25004-25012.	10.3	6
22	Gradient Structure Design of a Floatable Host for Preferential Lithium Deposition. <i>Nano Letters</i> , 2021, 21, 10252-10259.	9.1	10
23	Safe LAGP-based all solid-state Li metal batteries with plastic super-conductive interlayer enabled by in-situ solidification. <i>Energy Storage Materials</i> , 2020, 25, 613-620.	18.0	72
24	A biscuit-like separator enabling high performance lithium batteries by continuous and protected releasing of NO ₃ ⁻ in carbonate electrolyte. <i>Energy Storage Materials</i> , 2020, 24, 229-236.	18.0	31
25	Impact of evolution of cathode electrolyte interface of Li(Ni _{0.8} Co _{0.1} Mn _{0.1})O ₂ on electrochemical performance during high voltage cycling process. <i>Journal of Energy Chemistry</i> , 2020, 47, 72-78.	12.9	20
26	Restructured rimous copper foam as robust lithium host. <i>Energy Storage Materials</i> , 2020, 26, 250-259.	18.0	34
27	Conductive Polyacrylic Acid-Polyaniline as a Multifunctional Binder for Stable Organic Quinone Electrodes of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39630-39638.	8.0	37
28	Horizontal Stress Release for Protuberance-Free Li Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 2002522.	14.9	22
29	Simultaneously Homogenized Electric Field and Ionic Flux for Reversible Ultrahigh-Areal-Capacity Li Deposition. <i>Nano Letters</i> , 2020, 20, 5662-5669.	9.1	29
30	Enabling flexible solid-state Zn batteries via tailoring sulfur deficiency in bimetallic sulfide nanotube arrays. <i>Nano Energy</i> , 2020, 77, 105165.	16.0	65
31	In Situ Observation of Interface Evolution on a Graphite Anode by Scanning Electrochemical Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37047-37053.	8.0	30
32	Facile Synthesis of Ant-Nest-Like Porous Duplex Copper as Deeply Cycling Host for Lithium Metal Anodes. <i>Small</i> , 2020, 16, e2001784.	10.0	33
33	Sodiophilically Graded Gold Coating on Carbon Skeletons for Highly Stable Sodium Metal Anodes. <i>Small</i> , 2020, 16, e2003815.	10.0	37
34	Nanoscale observation of the solid electrolyte interface and lithium dendrite nucleation-growth process during the initial lithium electrodeposition. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18348-18357.	10.3	19
35	Interface chemistry of an amide electrolyte for highly reversible lithium metal batteries. <i>Nature Communications</i> , 2020, 11, 4188.	12.8	226
36	Sacrificial Poly(propylene carbonate) Membrane for Dispersing Nanoparticles and Preparing Artificial Solid Electrolyte Interphase on Li Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27087-27094.	8.0	8

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37	Interfacial kinetics induced phase separation enhancing low-temperature performance of lithium-ion batteries. <i>Nano Energy</i> , 2020, 75, 104977.	16.0	11
38	Vertically aligned carbon nanotubes grown on reduced graphene oxide as high-performance thermal interface materials. <i>Journal of Materials Science</i> , 2020, 55, 9414-9424.	3.7	13
39	Long-cycling and safe lithium metal batteries enabled by the synergetic strategy of <i>in situ</i> anodic pretreatment and an in-built gel polymer electrolyte. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7197-7204.	10.3	91
40	Self-Healing Materials for Energy Storage Devices. <i>Advanced Functional Materials</i> , 2020, 30, 1909912.	14.9	121
41	Investigating the increased-capacity mechanism of porous carbon materials in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14031-14042.	10.3	18
42	Understanding the Conductive Carbon Additive on Electrode/Electrolyte Interface Formation in Lithium-Ion Batteries via <i>in situ</i> Scanning Electrochemical Microscopy. <i>Frontiers in Chemistry</i> , 2020, 8, 114.	3.6	15
43	Deep-Eutectic-Solvent-Based Self-Healing Polymer Electrolyte for Safe and Long-Life Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9134-9142.	13.8	292
44	Boost Anion Storage Capacity Using Conductive Polymer as a Pseudocapacitive Cathode for High-Energy and Flexible Lithium Ion Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10479-10489.	8.0	57
45	Basal Nanosuit of Graphite for High-Energy Hybrid Li Batteries. <i>ACS Nano</i> , 2020, 14, 1837-1845.	14.6	40
46	Highly reversible lithium storage in a conversion-type $ZnCo_2O_4$ anode promoted by $NiCl_2 \cdot xH_2O$ hydrate. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2356-2363.	10.3	11
47	Self-Healing Janus Interfaces for High-Performance LAGP-Based Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1456-1464.	17.4	104
48	Advanced Matrixes for Binder-Free Nanostructured Electrodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e1908445.	21.0	108
49	A gradient screening approach for retired lithium-ion batteries based on X-ray computed tomography images. <i>RSC Advances</i> , 2020, 10, 19117-19123.	3.6	14
50	Oxygen and nitrogen co-doped porous carbon granules enabling dendrite-free lithium metal anode. <i>Energy Storage Materials</i> , 2019, 18, 320-327.	18.0	102
51	sp^2 hybrid-conjugated microporous polymer-derived Pd-encapsulated porous carbon materials for lithium-sulfur batteries. <i>Chemical Communications</i> , 2019, 55, 10084-10087.	4.1	6
52	Rate-independent and ultra-stable low-temperature sodium storage in pseudocapacitive TiO_2 nanowires. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19297-19304.	10.3	25
53	Application of Alternating Current Scanning Electrochemical Microscopy in Lithium-Ion Batteries: Local Visualization of the Electrode Surface. <i>ChemElectroChem</i> , 2019, 6, 4854-4858.	3.4	14
54	A Conductive/Ferroelectric Hybrid Interlayer for Highly Improved Trapping of Polysulfides in Lithium-Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900984.	3.7	12

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55	Ultrafine Titanium Nitride Sheath Decorated Carbon Nanofiber Network Enabling Stable Lithium Metal Anodes. <i>Advanced Functional Materials</i> , 2019, 29, 1903229.	14.9	112
56	Utilizing an autogenously protective atmosphere to synthesize a Prussian white cathode with ultrahigh capacity-retention for potassium-ion batteries. <i>Chemical Communications</i> , 2019, 55, 12555-12558.	4.1	24
57	Application of nano Al ₂ O ₃ particles as precipitate nucleus for preparation of high rate nickel-rich cathode materials. <i>Journal of Power Sources</i> , 2019, 439, 227038.	7.8	15
58	An Efficient Synthetic Method to Prepare High-Performance Ni-rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 7403-7411.	5.1	25
59	Abundant grain boundaries activate highly efficient lithium ion transportation in high rate Li ₄ Ti ₅ O ₁₂ compact microspheres. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1168-1176.	10.3	28
60	High-Performance Quasi-Solid-State MXene-Based Li-ion Batteries. <i>ACS Central Science</i> , 2019, 5, 365-373.	11.3	78
61	Investigation of Interfacial Changes on Grain Boundaries of Li(Ni _{0.5} Co _{0.2} Mn _{0.3})O ₂ in the Initial Overcharge Process. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801764.	3.7	17
62	Crystallized lithium titanate nanosheets prepared via spark plasma sintering for ultra-high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 455-460.	10.3	26
63	Organic quinones towards advanced electrochemical energy storage: recent advances and challenges. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23378-23415.	10.3	248
64	Comprehensive Review of P ₂ -Type Na _{2/3} Ni _{1/3} Mn _{2/3} O ₂ , a Potential Cathode for Practical Application of Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22051-22066.	8.0	148
65	Non-flammable electrolyte for dendrite-free sodium-sulfur battery. <i>Energy Storage Materials</i> , 2019, 23, 8-16.	18.0	92
66	Lowering the charge overpotential of Li ₂ S via the inductive effect of phenyl diselenide in Li-S batteries. <i>Chemical Communications</i> , 2019, 55, 7655-7658.	4.1	30
67	In-Plane Highly Dispersed Cu ₂ O Nanoparticles for Seeded Lithium Deposition. <i>Nano Letters</i> , 2019, 19, 4601-4607.	9.1	75
68	Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery Research. <i>Advanced Materials</i> , 2019, 31, e1806620.	21.0	390
69	Understanding the cathode electrolyte interface formation in aqueous electrolyte by scanning electrochemical microscopy. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12993-12996.	10.3	49
70	A scalable slurry process to fabricate a 3D lithiophilic and conductive framework for a high performance lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13225-13233.	10.3	49
71	Increase and discretization of the energy barrier for individual LiNi _x Co _y Mn _y O ₂ (x + 2y = 1) particles with the growth of a Li ₂ CO ₃ surface film. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12723-12731.	10.3	43
72	A Simple Method for the Complete Performance Recovery of Degraded Ni-rich LiNi _{0.70} Co _{0.15} Mn _{0.15} O ₂ Cathode via Surface Reconstruction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14076-14084.	8.0	89

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73	Investigations on the Surface Degradation of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ after Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 7378-7385.	6.7	15
74	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
75	Constructing Effective Interfaces for $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$ Pellets To Achieve Room-Temperature Hybrid Solid-State Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2019, 11, 9911-9918.	8.0	77
76	High electrochemical stability of a 3D cross-linked network $\text{PEO}@ \text{nano-SiO}_2$ composite polymer electrolyte for lithium metal batteries. Journal of Materials Chemistry A, 2019, 7, 6832-6839.	10.3	164
77	Co ^B Nanoflakes as Multifunctional Bridges in ZnCo_2O_4 Micro/Nanospheres for Superior Lithium Storage with Boosted Kinetics and Stability. Advanced Energy Materials, 2019, 9, 1803612.	19.5	114
78	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. Nature Communications, 2019, 10, 725.	12.8	289
79	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
80	Electrosprayed multiscale porous carbon microspheres as sulfur hosts for long-life lithium-sulfur batteries. Carbon, 2019, 141, 16-24.	10.3	54
81	Hierarchical MoS_2 /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
82	An interwoven MoO_3 @CNT scaffold interlayer for high-performance lithium-sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 8612-8619.	10.3	141
83	Challenges and perspectives of garnet solid electrolytes for all solid-state lithium batteries. Journal of Power Sources, 2018, 389, 120-134.	7.8	359
84	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
85	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
86	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. ACS Nano, 2018, 12, 3140-3148.	14.6	439
87	The different Li/Na ion storage mechanisms of nano Sb_2O_3 anchored on graphene. Journal of Power Sources, 2018, 385, 114-121.	7.8	41
88	Different solid electrolyte interface and anode performance of CoCO_3 microspheres due to graphene modification and LiCoO_2 CoCO_3 @rGO full cell study. Electrochimica Acta, 2018, 270, 192-204.	5.2	27
89	Controlled synthesis of anisotropic hollow ZnCo_2O_4 octahedrons for high-performance lithium storage. Energy Storage Materials, 2018, 11, 184-190.	18.0	63
90	Deterioration mechanism of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ /graphite ^B SiO_x power batteries under high temperature and discharge cycling conditions. Journal of Materials Chemistry A, 2018, 6, 65-72.	10.3	66

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91	Pseudocapacitive anthraquinone modified with reduced graphene oxide for flexible symmetric all-solid-state supercapacitors. Carbon, 2018, 127, 459-468.	10.3	123
92	Electrosprayed silicon-embedded porous carbon microspheres as lithium-ion battery anodes with exceptional rate capacities. Carbon, 2018, 127, 424-431.	10.3	150
93	Electrosprayed porous Fe ₃ O ₄ /carbon microspheres as anode materials for high-performance lithium-ion batteries. Nano Research, 2018, 11, 892-904.	10.4	110
94	Combination Effect of Bulk Structure Change and Surface Rearrangement on the Electrochemical Kinetics of LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ During Initial Charging Processes. ACS Applied Materials & Interfaces, 2018, 10, 41370-41379.	8.0	27
95	Redox-Active Organic Sodium Anthraquinone-2-Sulfonate (AQS) Anchored on Reduced Graphene Oxide for High-Performance Supercapacitors. Advanced Energy Materials, 2018, 8, 1802088.	19.5	147
96	A room-temperature sodium-sulfur battery with high capacity and stable cycling performance. Nature Communications, 2018, 9, 3870.	12.8	367
97	A Study on the Open Circuit Voltage and State of Charge Characterization of High Capacity Lithium-Ion Battery Under Different Temperature. Energies, 2018, 11, 2408.	3.1	137
98	Biopolymer-assisted synthesis of 3D interconnected Fe ₃ O ₄ @carbon core@shell as anode for asymmetric lithium ion capacitors. Carbon, 2018, 140, 296-305.	10.3	88
99	Electrospun N-Doped Hierarchical Porous Carbon Nanofiber with Improved Degree of Graphitization for High-Performance Lithium Ion Capacitor. Chemistry - A European Journal, 2018, 24, 10460-10467.	3.3	55
100	A Stable Quasi-Solid-State Sodium-Sulfur Battery. Angewandte Chemie - International Edition, 2018, 57, 10168-10172.	13.8	178
101	Carbon coated MoS ₂ nanosheets vertically grown on carbon cloth as efficient anode for high-performance sodium ion hybrid capacitors. Electrochimica Acta, 2018, 283, 36-44.	5.2	50
102	Nanostructured Anode Materials for Non-aqueous Lithium Ion Hybrid Capacitors. Energy and Environmental Materials, 2018, 1, 75-87.	12.8	97
103	Fe ₃ O ₄ -Decorated Porous Graphene Interlayer for High-Performance Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 26264-26273.	8.0	117
104	Exploring Stability of Nonaqueous Electrolytes for Potassium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 1828-1833.	5.1	78
105	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
106	Advances in Understanding Materials for Rechargeable Lithium Batteries by Atomic Force Microscopy. Energy and Environmental Materials, 2018, 1, 28-40.	12.8	80
107	High-Density Microporous Li ₄ Ti ₅ O ₁₂ Microbars with Superior Rate Performance for Lithium-Ion Batteries. Advanced Science, 2017, 4, 1600311.	11.2	66
108	Dendrite-Free, High-Rate, Long-Life Lithium Metal Batteries with a 3D Cross-Linked Network Polymer Electrolyte. Advanced Materials, 2017, 29, 1604460.	21.0	604

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109	Suppressing Self-Discharge and Shuttle Effect of Lithium-Sulfur Batteries with V_2O_5 -Decorated Carbon Nanofiber Interlayer. <i>Small</i> , 2017, 13, 1602539.	10.0	190
110	A review of gassing behavior in $Li_4Ti_5O_{12}$ -based lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6368-6381.	10.3	157
111	Recent innovative configurations in high-energy lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5222-5234.	10.3	115
112	Discovering a First-Order Phase Transition in the $Li-CeO_2$ System. <i>Nano Letters</i> , 2017, 17, 1282-1288.	9.1	27
113	Ultrafast-Charging and Long-Life Li-Ion Battery Anodes of TiO_2 -B and Anatase Dual-Phase Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35917-35926.	8.0	57
114	Stacking up layers of polyaniline/carbon nanotube networks inside papers as highly flexible electrodes with large areal capacitance and superior rate capability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19934-19942.	10.3	82
115	Advanced Nanostructured Anode Materials for Sodium-Ion Batteries. <i>Small</i> , 2017, 13, 1701835.	10.0	206
116	A Facile Surface Reconstruction Mechanism toward Better Electrochemical Performance of $Li_4Ti_5O_{12}$ in Lithium-Ion Battery. <i>Advanced Science</i> , 2017, 4, 1700205.	11.2	37
117	A dual-functional gel-polymer electrolyte for lithium ion batteries with superior rate and safety performances. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18888-18895.	10.3	85
118	Twinborn TiO_2 -TiN heterostructures enabling smooth trapping-diffusion-conversion of polysulfides towards ultralong life lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1694-1703.	30.8	884
119	A Novel Lithiated Silicon-Sulfur Battery Exploiting an Optimized Solid-Like Electrolyte to Enhance Safety and Cycle Life. <i>Small</i> , 2017, 13, 1602015.	10.0	33
120	A sliced orange-shaped $ZnCo_2O_4$ material as anode for high-performance lithium ion battery. <i>Energy Storage Materials</i> , 2017, 6, 61-69.	18.0	71
121	Large Polarization of $Li_4Ti_5O_{12}$ Lithiated to 0 V at Large Charge/Discharge Rates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18788-18796.	8.0	51
122	Electrostatic-spraying an ultrathin, multifunctional and compact coating onto a cathode for a long-life and high-rate lithium-sulfur battery. <i>Nano Energy</i> , 2016, 30, 138-145.	16.0	71
123	Ultrafine TiO_2 Decorated Carbon Nanofibers as Multifunctional Interlayer for High-Performance Lithium-Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23105-23113.	8.0	200
124	Dense coating of $Li_4Ti_5O_{12}$ and graphene mixture on the separator to produce long cycle life of lithium-sulfur battery. <i>Nano Energy</i> , 2016, 30, 1-8.	16.0	179
125	Cyclized-polyacrylonitrile modified carbon nanofiber interlayers enabling strong trapping of polysulfides in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12973-12980.	10.3	64
126	Chemical Dealloying Derived 3D Porous Current Collector for Li Metal Anodes. <i>Advanced Materials</i> , 2016, 28, 6932-6939.	21.0	751

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127	SiO ₂ Hollow Nanosphere-Based Composite Solid Electrolyte for Lithium Metal Batteries to Suppress Lithium Dendrite Growth and Enhance Cycle Life. <i>Advanced Energy Materials</i> , 2016, 6, 1502214.	19.5	346
128	Micron-sized Spherical Si/C Hybrids Assembled via Water/Oil System for High-Performance Lithium Ion Battery. <i>Electrochimica Acta</i> , 2016, 211, 982-988.	5.2	30
129	A robust strategy for crafting monodisperse Li ₄ Ti ₅ O ₁₂ nanospheres as superior rate anode for lithium ion batteries. <i>Nano Energy</i> , 2016, 21, 133-144.	16.0	168
130	A honeycomb-cobweb inspired hierarchical core-shell structure design for electrospun silicon/carbon fibers as lithium-ion battery anodes. <i>Carbon</i> , 2016, 98, 582-591.	10.3	128
131	Monodispersed SnO ₂ nanospheres embedded in framework of graphene and porous carbon as anode for lithium ion batteries. <i>Energy Storage Materials</i> , 2016, 3, 98-105.	18.0	60
132	Novel gel polymer electrolyte for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2016, 22, 278-289.	16.0	382
133	Concrete-inspired construction of a silicon/carbon hybrid electrode for high performance lithium ion battery. <i>Carbon</i> , 2015, 93, 59-67.	10.3	78
134	Suppression of interfacial reactions between Li ₄ Ti ₅ O ₁₂ electrode and electrolyte solution via zinc oxide coating. <i>Electrochimica Acta</i> , 2015, 157, 266-273.	5.2	51
135	Electrospun core-shell silicon/carbon fibers with an internal honeycomb-like conductive carbon framework as an anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7112-7120.	10.3	99
136	Fe ₃ O ₄ nanoparticles encapsulated in electrospun porous carbon fibers with a compact shell as high-performance anode for lithium ion batteries. <i>Carbon</i> , 2015, 87, 347-356.	10.3	131
137	Enhancement on Cycle Performance of Zn Anodes by Activated Carbon Modification for Neutral Rechargeable Zinc Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1439-A1444.	2.9	164
138	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li ₄ Ti ₅ O ₁₂ Spheres of Densely Packed Nanocrystallites. <i>Chemistry of Materials</i> , 2015, 27, 5647-5656.	6.7	142
139	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. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13340-13349.	10.3	71
140	N and S co-doped porous carbon spheres prepared using L-cysteine as a dual functional agent for high-performance lithium-sulfur batteries. <i>Chemical Communications</i> , 2015, 51, 17720-17723.	4.1	121
141	A carbon sandwich electrode with graphene filling coated by N-doped porous carbon layers for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20218-20224.	10.3	83
142	Synthesis of Lithium Iron Phosphate/Carbon Microspheres by Using Polyacrylic Acid Coated Iron Phosphate Nanoparticles Derived from Iron(III) Acrylate. <i>ChemSusChem</i> , 2015, 8, 1009-1016.	6.8	31
143	Multilayered silicon embedded porous carbon/graphene hybrid film as a high performance anode. <i>Carbon</i> , 2015, 84, 434-443.	10.3	144
144	Carbon coated porous tin peroxide/carbon composite electrode for lithium-ion batteries with excellent electrochemical properties. <i>Carbon</i> , 2015, 81, 739-747.	10.3	25

#	ARTICLE	IF	CITATIONS
145	Highly Crystalline Lithium Titanium Oxide Sheets Coated with Nitrogen-Doped Carbon enable High-Rate Lithium-Ion Batteries. <i>ChemSusChem</i> , 2014, 7, 2567-2574.	6.8	55
146	Investigation of cyano resin-based gel polymer electrolyte: in situ gelation mechanism and electrode-electrolyte interfacial fabrication in lithium-ion battery. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20059-20066.	10.3	92
147	A three-dimensional graphene skeleton as a fast electron and ion transport network for electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3031.	10.3	96
148	Nanospace-confined formation of flattened Sn sheets in pre-seeded graphenes for lithium ion batteries. <i>Nanoscale</i> , 2014, 6, 9554-9558.	5.6	46
149	High catalytic activity of anatase titanium dioxide for decomposition of electrolyte solution in lithium ion battery. <i>Journal of Power Sources</i> , 2014, 268, 882-886.	7.8	25
150	Lithium titanate hybridized with trace amount of graphene used as an anode for a high rate lithium ion battery. <i>Electrochimica Acta</i> , 2014, 142, 247-253.	5.2	11
151	Effect of solid electrolyte interface (SEI) film on cyclic performance of Li ₄ Ti ₅ O ₁₂ anodes for Li ion batteries. <i>Journal of Power Sources</i> , 2013, 239, 269-276.	7.8	223
152	Li-Ion Reaction to Improve the Rate Performance of Nanoporous Anatase TiO ₂ Anodes. <i>Energy Technology</i> , 2013, 1, 668-674.	3.8	30
153	Facile synthesis of Li ₄ Ti ₅ O ₁₂ /C composite with super rate performance. <i>Energy and Environmental Science</i> , 2012, 5, 9595.	30.8	323
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156	Energetic Zinc Ion Chemistry: The Rechargeable Zinc Ion Battery. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 933-935.	13.8	1,437
157	Structure and Electrochemical Properties of Zn-Doped Li ₄ Ti ₅ O ₁₂ as Anode Materials in Li-Ion Battery. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, A36.	2.2	67