

Baohua Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153
papers

12,353
citations

60
h-index

109
g-index

157
ext. papers

15,127
ext. citations

12.5
avg, IF

6.79
L-index

#	Paper	IF	Citations
153	Stabilizing sodium metal anode through facile construction of organic-metal interface. <i>Journal of Energy Chemistry</i> , 2022 , 66, 133-139	12	5
152	Synthesis design of interfacial nanostructure for nickel-rich layered cathodes. <i>Nano Energy</i> , 2022 , 97, 107119	17.1	1
151	Synthesis design of a 3D interfacial structure for highly reversible lithium deposition. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 25004-25012	13	1
150	Deep Eutectic Solvents for Boosting Electrochemical Energy Storage and Conversion: A Review and Perspective. <i>Advanced Functional Materials</i> , 2021 , 31, 2011102	15.6	54
149	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	11	1
148	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	19.4	52
147	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	13	6
146	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	13	2
145	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	6.1	8
144	In Situ Constructed Ionic-Electronic Dual-Conducting Scaffold with Reinforced Interface for High-Performance Sodium Metal Anodes. <i>Small</i> , 2021 , 17, e2104021	11	3
143	A nanoscale interlayer void design enabling high-performance SnO ₂ -carbon anodes. <i>Carbon</i> , 2021 , 183, 486-494	10.4	4
142	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	8	9
141	Rational design of carbon nanotube architectures for lithium-halogen batteries: Advances and perspectives. <i>Energy Storage Materials</i> , 2021 , 42, 723-752	19.4	4
140	Dendrite-free lithium deposition enabled by a vertically aligned graphene pillar architecture. <i>Carbon</i> , 2021 , 185, 152-160	10.4	2
139	Promoting the reversibility of lithium ion/lithium metal hybrid graphite anode by regulating solid electrolyte interface. <i>Nano Energy</i> , 2021 , 90, 106510	17.1	3
138	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	13	0
137	The rise of metal-organic frameworks for electrolyte applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20837-20856	13	3

136	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	9.5	4
135	Interfacial kinetics induced phase separation enhancing low-temperature performance of lithium-ion batteries. <i>Nano Energy</i> , 2020 , 75, 104977	17.1	9
134	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	4.3	10
133	Long-cycling and safe lithium metal batteries enabled by the synergetic strategy of ex situ anodic pretreatment and an in-built gel polymer electrolyte. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7197-7204	13	37
132	Self-Healing Materials for Energy-Storage Devices. <i>Advanced Functional Materials</i> , 2020 , 30, 1909912	15.6	57
131	Investigating the increased-capacity mechanism of porous carbon materials in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14031-14042	13	10
130	Understanding the Conductive Carbon Additive on Electrode/Electrolyte Interface Formation in Lithium-Ion Batteries via Scanning Electrochemical Microscopy. <i>Frontiers in Chemistry</i> , 2020 , 8, 114	5	4
129	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	16.4	122
128	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	9.5	27
127	Basal Nanosuit of Graphite for High-Energy Hybrid Li Batteries. <i>ACS Nano</i> , 2020 , 14, 1837-1845	16.7	21
126	Highly reversible lithium storage in a conversion-type ZnCo ₂ O ₄ anode promoted by NiCl ₂ ·6H ₂ O hydrate. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2356-2363	13	8
125	Self-Healing Janus Interfaces for High-Performance LAGP-Based Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1456-1464	20.1	51
124	A gradient screening approach for retired lithium-ion batteries based on X-ray computed tomography images.. <i>RSC Advances</i> , 2020 , 10, 19117-19123	3.7	5
123	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	19.4	18
122	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	12
121	Restructured rimous copper foam as robust lithium host. <i>Energy Storage Materials</i> , 2020 , 26, 250-259	19.4	14
120	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	9.5	14
119	Horizontal Stress Release for Protuberance-Free Li Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 2002522	15.6	12

118	Simultaneously Homogenized Electric Field and Ionic Flux for Reversible Ultrahigh-Areal-Capacity Li Deposition. <i>Nano Letters</i> , 2020 , 20, 5662-5669	11.5	11
117	Enabling flexible solid-state Zn batteries via tailoring sulfur deficiency in bimetallic sulfide nanotube arrays. <i>Nano Energy</i> , 2020 , 77, 105165	17.1	34
116	In Situ Observation of Interface Evolution on a Graphite Anode by Scanning Electrochemical Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37047-37053	9.5	16
115	Facile Synthesis of Ant-Nest-Like Porous Duplex Copper as Deeply Cycling Host for Lithium Metal Anodes. <i>Small</i> , 2020 , 16, e2001784	11	10
114	Sodiophilically Graded Gold Coating on Carbon Skeletons for Highly Stable Sodium Metal Anodes. <i>Small</i> , 2020 , 16, e2003815	11	20
113	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	11.7	9
112	Interface chemistry of an amide electrolyte for highly reversible lithium metal batteries. <i>Nature Communications</i> , 2020 , 11, 4188	17.4	90
111	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	19.4	43
110	Advanced Matrixes for Binder-Free Nanostructured Electrodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908445	24	61
109	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	5.8	16
108	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	8.9	8
107	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	6.1	13
106	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	13	18
105	High-Performance Quasi-Solid-State MXene-Based Li-I Batteries. <i>ACS Central Science</i> , 2019 , 5, 365-373	16.8	53
104	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	4.6	12
103	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	13	13
102	Organic quinones towards advanced electrochemical energy storage: recent advances and challenges. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23378-23415	13	133
101	Comprehensive Review of P2-Type NaNiMnO, a Potential Cathode for Practical Application of Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22051-22066	9.5	64

100	Non-flammable electrolyte for dendrite-free sodium-sulfur battery. <i>Energy Storage Materials</i> , 2019 , 23, 8-16	19.4	60
99	Lowering the charge overpotential of LiS via the inductive effect of phenyl diselenide in Li-S batteries. <i>Chemical Communications</i> , 2019 , 55, 7655-7658	5.8	20
98	In-Plane Highly Dispersed CuO Nanoparticles for Seeded Lithium Deposition. <i>Nano Letters</i> , 2019 , 19, 4601-4607	11.5	47
97	Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery Research. <i>Advanced Materials</i> , 2019 , 31, e1806620	24	251
96	Understanding the cathode electrolyte interface formation in aqueous electrolyte by scanning electrochemical microscopy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12993-12996	13	27
95	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	13	31
94	Increase and discretization of the energy barrier for individual $\text{LiNi}_x\text{Co}_y\text{Mn}_{1-x-2y}\text{O}_2$ ($x + 2y = 1$) particles with the growth of a Li_2CO_3 surface film. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12723-12731	13	24
93	A Simple Method for the Complete Performance Recovery of Degraded Ni-rich LiNiCoMnO Cathode via Surface Reconstruction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14076-14084	9.5	53
92	Investigations on the Surface Degradation of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ after Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7378-7385	8.3	10
91	High-Energy and High-Power Nonaqueous Lithium-Ion Capacitors Based on Polypyrrole/Carbon Nanotube Composites as Pseudocapacitive Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15646-15655	9.5	30
90	Constructing Effective Interfaces for LiAlGe(PO) Pellets To Achieve Room-Temperature Hybrid Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9911-9918	9.5	50
89	Oxygen and nitrogen co-doped porous carbon granules enabling dendrite-free lithium metal anode. <i>Energy Storage Materials</i> , 2019 , 18, 320-327	19.4	73
88	sp-sp hybrid-conjugated microporous polymer-derived Pd-encapsulated porous carbon materials for lithium-sulfur batteries. <i>Chemical Communications</i> , 2019 , 55, 10084-10087	5.8	4
87	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	13	11
86	Application of Alternating Current Scanning Electrochemical Microscopy in Lithium-Ion Batteries: Local Visualization of the Electrode Surface. <i>ChemElectroChem</i> , 2019 , 6, 4854-4858	4.3	7
85	A Conductive/Ferroelectric Hybrid Interlayer for Highly Improved Trapping of Polysulfides in Lithium Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900984	4.6	8
84	Ultrafine Titanium Nitride Sheath Decorated Carbon Nanofiber Network Enabling Stable Lithium Metal Anodes. <i>Advanced Functional Materials</i> , 2019 , 29, 1903229	15.6	68
83	High electrochemical stability of a 3D cross-linked network $\text{PEO}@$ nano- SiO_2 composite polymer electrolyte for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6832-6839	13	114

82	CoB Nanoflakes as Multifunctional Bridges in ZnCo ₂ O ₄ Micro-/Nanospheres for Superior Lithium Storage with Boosted Kinetics and Stability. <i>Advanced Energy Materials</i> , 2019 , 9, 1803612	21.8	78
81	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. <i>Nature Communications</i> , 2019 , 10, 725	17.4	156
80	Stabilizing a sodium-metal battery with the synergy effects of a sodiophilic matrix and fluorine-rich interface. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24857-24867	13	22
79	Electrosprayed multiscale porous carbon microspheres as sulfur hosts for long-life lithium-sulfur batteries. <i>Carbon</i> , 2019 , 141, 16-24	10.4	41
78	Hierarchical MoS ₂ /Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5668-5677	13	100
77	An interwoven MoO ₃ @CNT scaffold interlayer for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8612-8619	13	122
76	Challenges and perspectives of garnet solid electrolytes for all solid-state lithium batteries. <i>Journal of Power Sources</i> , 2018 , 389, 120-134	8.9	236
75	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. <i>Energy and Environmental Science</i> , 2018 , 11, 941-951	35.4	520
74	Transition metal assisted synthesis of tunable pore structure carbon with high performance as sodium/lithium ion battery anode. <i>Carbon</i> , 2018 , 129, 667-673	10.4	45
73	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. <i>ACS Nano</i> , 2018 , 12, 3140-3148	16.7	305
72	The different Li/Na ion storage mechanisms of nano Sb ₂ O ₃ anchored on graphene. <i>Journal of Power Sources</i> , 2018 , 385, 114-121	8.9	30
71	Different solid electrolyte interface and anode performance of CoCO ₃ microspheres due to graphene modification and LiCoO ₂ CoCO ₃ @rGO full cell study. <i>Electrochimica Acta</i> , 2018 , 270, 192-204	6.7	23
70	Controlled synthesis of anisotropic hollow ZnCo ₂ O ₄ octahedrons for high-performance lithium storage. <i>Energy Storage Materials</i> , 2018 , 11, 184-190	19.4	46
69	Deterioration mechanism of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ /graphite-BiOx power batteries under high temperature and discharge cycling conditions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 65-72	13	51
68	Carbon coated MoS ₂ nanosheets vertically grown on carbon cloth as efficient anode for high-performance sodium ion hybrid capacitors. <i>Electrochimica Acta</i> , 2018 , 283, 36-44	6.7	34
67	Nanostructured Anode Materials for Non-aqueous Lithium Ion Hybrid Capacitors. <i>Energy and Environmental Materials</i> , 2018 , 1, 75-87	13	63
66	FeO-Decorated Porous Graphene Interlayer for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26264-26273	9.5	89
65	Exploring Stability of Nonaqueous Electrolytes for Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1828-1833	6.1	53

64	NaCl-templated synthesis of hierarchical porous carbon with extremely large specific surface area and improved graphitization degree for high energy density lithium ion capacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17057-17066	13	111
63	Advances in Understanding Materials for Rechargeable Lithium Batteries by Atomic Force Microscopy. <i>Energy and Environmental Materials</i> , 2018 , 1, 28-40	13	53
62	Pseudocapacitive anthraquinone modified with reduced graphene oxide for flexible symmetric all-solid-state supercapacitors. <i>Carbon</i> , 2018 , 127, 459-468	10.4	90
61	Electrosprayed silicon-embedded porous carbon microspheres as lithium-ion battery anodes with exceptional rate capacities. <i>Carbon</i> , 2018 , 127, 424-431	10.4	123
60	Electrosprayed porous Fe ₃ O ₄ /carbon microspheres as anode materials for high-performance lithium-ion batteries. <i>Nano Research</i> , 2018 , 11, 892-904	10	89
59	Combination Effect of Bulk Structure Change and Surface Rearrangement on the Electrochemical Kinetics of LiNiCoAlO During Initial Charging Processes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41370-41379	9.5	19
58	Redox-Active Organic Sodium Anthraquinone-2-Sulfonate (AQS) Anchored on Reduced Graphene Oxide for High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1802088	21.8	91
57	A room-temperature sodium-sulfur battery with high capacity and stable cycling performance. <i>Nature Communications</i> , 2018 , 9, 3870	17.4	247
56	A Study on the Open Circuit Voltage and State of Charge Characterization of High Capacity Lithium-Ion Battery Under Different Temperature. <i>Energies</i> , 2018 , 11, 2408	3.1	55
55	Biopolymer-assisted synthesis of 3D interconnected Fe ₃ O ₄ @carbon core@shell as anode for asymmetric lithium ion capacitors. <i>Carbon</i> , 2018 , 140, 296-305	10.4	66
54	Electrospun N-Doped Hierarchical Porous Carbon Nanofiber with Improved Degree of Graphitization for High-Performance Lithium Ion Capacitor. <i>Chemistry - A European Journal</i> , 2018 , 24, 10460-10467	4.8	43
53	A Stable Quasi-Solid-State Sodium-Sulfur Battery. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10168-10172	16.4	128
52	High-Density Microporous LiTiO Microbars with Superior Rate Performance for Lithium-Ion Batteries. <i>Advanced Science</i> , 2017 , 4, 1600311	13.6	52
51	Dendrite-Free, High-Rate, Long-Life Lithium Metal Batteries with a 3D Cross-Linked Network Polymer Electrolyte. <i>Advanced Materials</i> , 2017 , 29, 1604460	24	461
50	Suppressing Self-Discharge and Shuttle Effect of Lithium-Sulfur Batteries with V O -Decorated Carbon Nanofiber Interlayer. <i>Small</i> , 2017 , 13, 1602539	11	165
49	A review of gassing behavior in Li ₄ Ti ₅ O ₁₂ -based lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6368-6381	13	125
48	Recent innovative configurations in high-energy lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5222-5234	13	104
47	Discovering a First-Order Phase Transition in the Li-CeO System. <i>Nano Letters</i> , 2017 , 17, 1282-1288	11.5	19

46	Ultrafast-Charging and Long-Life Li-Ion Battery Anodes of TiO-B and Anatase Dual-Phase Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35917-35926	9.5	48
45	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	13	70
44	Advanced Nanostructured Anode Materials for Sodium-Ion Batteries. <i>Small</i> , 2017 , 13, 1701835	11	149
43	A Facile Surface Reconstruction Mechanism toward Better Electrochemical Performance of LiTiO in Lithium-Ion Battery. <i>Advanced Science</i> , 2017 , 4, 1700205	13.6	30
42	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	13	58
41	Twinborn TiO ₂ /Ni heterostructures enabling smooth trapping/diffusion/conversion of polysulfides towards ultralong life lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1694-1703	35.4	647
40	A Novel Lithiated Silicon-Sulfur Battery Exploiting an Optimized Solid-Like Electrolyte to Enhance Safety and Cycle Life. <i>Small</i> , 2017 , 13, 1602015	11	25
39	A sliced orange-shaped ZnCo ₂ O ₄ material as anode for high-performance lithium ion battery. <i>Energy Storage Materials</i> , 2017 , 6, 61-69	19.4	60
38	Ultrafine TiO ₂ Decorated Carbon Nanofibers as Multifunctional Interlayer for High-Performance Lithium-Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23105-13	9.5	167
37	Dense coating of Li ₄ Ti ₅ O ₁₂ and graphene mixture on the separator to produce long cycle life of lithium-sulfur battery. <i>Nano Energy</i> , 2016 , 30, 1-8	17.1	164
36	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	13	54
35	Chemical Dealloying Derived 3D Porous Current Collector for Li Metal Anodes. <i>Advanced Materials</i> , 2016 , 28, 6932-9	24	586
34	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	21.8	271
33	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	6.7	23
32	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	17.1	138
31	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	10.4	104
30	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	19.4	55
29	Novel gel polymer electrolyte for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2016 , 22, 278-289	17.1	289

28	Large Polarization of Li ₄ Ti ₅ O ₁₂ Lithiated to 0 V at Large Charge/Discharge Rates. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18788-96	9.5	43
27	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	17.1	65
26	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	10.4	113
25	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	3.9	121
24	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	9.6	111
23	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	13	63
22	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, 17720-3	5.8	109
21	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	13	76
20	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, 1009-16	8.3	25
19	Multilayered silicon embedded porous carbon/graphene hybrid film as a high performance anode. <i>Carbon</i> , 2015 , 84, 434-443	10.4	124
18	Carbon coated porous tin peroxide/carbon composite electrode for lithium-ion batteries with excellent electrochemical properties. <i>Carbon</i> , 2015 , 81, 739-747	10.4	23
17	Concrete-inspired construction of a silicon/carbon hybrid electrode for high performance lithium ion battery. <i>Carbon</i> , 2015 , 93, 59-67	10.4	71
16	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	6.7	40
15	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	13	78
14	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	13	82
13	Nanospace-confined formation of flattened Sn sheets in pre-seeded graphenes for lithium ion batteries. <i>Nanoscale</i> , 2014 , 6, 9554-8	7.7	34
12	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	8.9	21
11	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	6.7	10

10	Highly crystalline lithium titanium oxide sheets coated with nitrogen-doped carbon enable high-rate lithium-ion batteries. <i>ChemSusChem</i> , 2014 , 7, 2567-74	8.3	50
9	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	13	65
8	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	8.9	188
7	Li-ion Reaction to Improve the Rate Performance of Nanoporous Anatase TiO ₂ Anodes. <i>Energy Technology</i> , 2013 , 1, 668-674	3.5	25
6	Carbon coating to suppress the reduction decomposition of electrolyte on the Li ₄ Ti ₅ O ₁₂ electrode. <i>Journal of Power Sources</i> , 2012 , 202, 253-261	8.9	119
5	Energetic zinc ion chemistry: the rechargeable zinc ion battery. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 933-5	16.4	1012
4	Facile synthesis of Li ₄ Ti ₅ O ₁₂ /C composite with super rate performance. <i>Energy and Environmental Science</i> , 2012 , 5, 9595	35.4	285
3	Gassing in Li ₄ Ti ₅ O ₁₂ -based batteries and its remedy. <i>Scientific Reports</i> , 2012 , 2, 913	4.9	238
2	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		60
1	A Comparative Investigation of Single Crystal and Polycrystalline Ni-Rich NCMs as Cathodes for Lithium-Ion Batteries. <i>Energy and Environmental Materials</i> ,	13	4