Yan-Bing He

List of Publications by Year
in descending order

188 papers	17,993 citations	9786 73 h-index	14208 128 g-index
191 all docs	191 docs citations	191 times ranked	15032 citing authors

#	Article	IF	Citations
1	Revisiting the Roles of Natural Graphite in Ongoing Lithiumâ€ion Batteries. Advanced Materials, 2022, 34, e2106704.	21.0	99
2	Lithium-ion spontaneous exchange and synergistic transport in ceramic-liquid hybrid electrolytes for highly efficient lithium-ion transfer. Science Bulletin, 2022, 67, 946-954.	9.0	7
3	Constructing a highly efficient â€œsolidâ€“polymerâ€“solidâ€•elastic ion transport network in cathodes activates the room temperature performance of all-solid-state lithium batteries. Energy and Environmental Science, 2022, 15, 1503-1511.	30.8	36
4	Bottom-up synthesized crystalline boron quantum dots with nonvolatile memory effects through one-step hydrothermal polymerization of ammonium pentaborane and boric acid. CrystEngComm, 2022, 24, 3469-3474.	2.6	5
5	Selfâ€Healing Mechanism of Lithium in Lithium Metal. Advanced Science, 2022, 9, e2105574.	11.2	25
6	A Highly Efficient Ion and Electron Conductive Interlayer To Achieve Low Self-Discharge of Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2022, 14, 1783-1790.	8.0	13
7	Ultrathin and Highâ€Modulus LiBO₂ Layer Highly Elevates the Interfacial Dynamics and Stability of Lithium Anode under Wide Temperature Range. Small, 2022, 18, e2106427.	10.0	12
8	In situ construction of Li3N-enriched interface enabling ultra-stable solid-state LiNi0.8Co0.1Mn0.1O2/lithium metal batteries. Nano Energy, 2022, 100, 107470.	16.0	34
9	(Oxalato)borate: The key ingredient for polyethylene oxide based composite electrolyte to achieve ultra-stable performance of high voltage solid-state LiNi0.8Co0.1Mn0.1O2/lithium metal battery. Nano Energy, 2021, 80, 105562.	16.0	58
10	A multifunctional artificial protective layer for producing an ultra-stable lithium metal anode in a commercial carbonate electrolyte. Journal of Materials Chemistry A, 2021, 9, 7667-7674.	10.3	31
11	A thin and high-strength composite polymer solid-state electrolyte with a highly efficient and uniform ion-transport network. Journal of Materials Chemistry A, 2021, 9, 14344-14351.	10.3	29
12	Crystalline borophene quantum dots and their derivative boron nanospheres. Materials Advances, 2021, 2, 3269-3273.	5.4	20
13	Lithium Metal Electrode with Increased Air Stability and Robust Solid Electrolyte Interphase Realized by Silane Coupling Agent Modification. Advanced Materials, 2021, 33, e2008133.	21.0	122
14	Insight into the Synergistic Effect of N, S Coâ€Doping for Carbon Coating Layer on Niobium Oxide Anodes with Ultraâ€Long Life. Advanced Functional Materials, 2021, 31, 2100311.	14.9	82
15	A lithium nucleation-diffusion-growth mechanism to govern the horizontal deposition of lithium metal anode. Science China Materials, 2021, 64, 2409-2420.	6.3	22
16	Nitrate Additives Coordinated with Crown Ether Stabilize Lithium Metal Anodes in Carbonate Electrolyte. Advanced Functional Materials, 2021, 31, 2102128.	14.9	56
17	Coordinated Adsorption and Catalytic Conversion of Polysulfides Enabled by Perovskite Bimetallic Hydroxide Nanocages for Lithiumâ€Sulfur Batteries. Small, 2021, 17, e2101538.	10.0	21
18	Grain boundaries contribute to highly efficient lithiumâ€ion transport in advanced LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ secondary sphere with compact structure. SusMat, 2021, 1, 255-265.	14.9	20

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19	Modification strategies of Li7La3Zr2O12 ceramic electrolyte for high-performance solid-state batteries. Tungsten, 2021, 3, 260-278.	4.8	17
20	Progress and perspective of the cathode/electrolyte interface construction in allâ€solidâ€state lithium batteries. , 2021, 3, 866-894.		59
21	Progress and perspective of Li_{1â€‰+}â€‰<scp>_xAl_xTi₂</scp>_{â€x}(<scp>PO₄</scp>)₃ ceramic electrolyte in lithium batteries. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1195-1217.	17.3	68
22	Lattice-Coupled Si/MXene Confined by Hard Carbon for Fast Sodium-Ion Conduction. ACS Applied Energy Materials, 2021, 4, 7268-7277.	5.1	29
23	Ultrafast presodiation of graphene anodes for highâ€efficiency and highâ€rate s<scp>odiumâ€ion</scp> storage. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1445-1454.	17.3	40
24	Pore structure engineering of wood-derived hard carbon enables their high-capacity and cycle-stable sodium storage properties. Electrochimica Acta, 2021, 391, 139000.	5.2	13
25	Stable Interface Chemistry and Multiple Ion Transport of Composite Electrolyte Contribute to Ultraâ€long Cycling Solidâ€State LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂/Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 24873-24880.	2.0	6
26	Stable Interface Chemistry and Multiple Ion Transport of Composite Electrolyte Contribute to Ultraâ€long Cycling Solidâ€State LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂/Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 24668-24675.	13.8	124
27	Three-dimensional alloy interface between Li6.4La3Zr1.4Ta0.6O12 and Li metal to achieve excellent cycling stability of all-solid-state battery. Journal of Power Sources, 2021, 505, 230062.	7.8	42
28	Constructing a Reinforced and Gradient Solid Electrolyte Interphase on Si Nanoparticles by Inâ€Situ Thiolâ€Ene Click Reaction for Long Cycling Lithiumâ€Ion Batteries. Small, 2021, 17, e2102316.	10.0	24
29	A relaxor ferroelectric polymer with an ultrahigh dielectric constant largely promotes the dissociation of lithium salts to achieve high ionic conductivity. Energy and Environmental Science, 2021, 14, 6021-6029.	30.8	115
30	Electron and Ion Coâ€Conductive Catalyst Achieving Instant Transformation of Lithium Polysulfide towards Li₂S. Advanced Materials, 2021, 33, e2105362.	21.0	36
31	An Organic/Inorganic Composite Gel Electrolyte Inducing Uniformly Lithium Deposition at High Current Density and Capacity. Advanced Materials Interfaces, 2021, 8, 2100790.	3.7	8
32	Cation Vacancy-Boosted Lewis Acidâ€“Base Interactions in a Polymer Electrolyte for High-Performance Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 51107-51116.	8.0	15
33	In-situ polymerized cross-linked binder for cathode in lithium-sulfur batteries. Chinese Chemical Letters, 2020, 31, 570-574.	9.0	36
34	A Functionalized Carbon Surface for Highâ€Performance Sodiumâ€Ion Storage. Small, 2020, 16, e1902603.	10.0	51
35	Efforts on enhancing the Li-ion diffusion coefficient and electronic conductivity of titanate-based anode materials for advanced Li-ion batteries. Energy Storage Materials, 2020, 26, 165-197.	18.0	145
36	In-situ construction of hierarchical cathode electrolyte interphase for high performance LiNi0.8Co0.1Mn0.1O2/Li metal battery. Nano Energy, 2020, 78, 105282.	16.0	93

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37	Progress and Perspective of All-Solid-State Lithium Batteries with High Performance at Room Temperature. Energy & Fuels, 2020, 34, 13456-13472.	5.1	44
38	Integrated Structure of Cathode and Double-Layer Electrolyte for Highly Stable and Dendrite-Free All-Solid-State Li-Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 56995-57002.	8.0	32
39	Building Artificial Solidâ€Electrolyte Interphase with Uniform Intermolecular Ionic Bonds toward Dendriteâ€Free Lithium Metal Anodes. Advanced Functional Materials, 2020, 30, 2002414.	14.9	104
40	Progress on Lithium Dendrite Suppression Strategies from the Interior to Exterior by Hierarchical Structure Designs. Small, 2020, 16, e2000699.	10.0	63
41	Vertically aligned carbon nanotubes grown on reduced graphene oxide as high-performance thermal interface materials. Journal of Materials Science, 2020, 55, 9414-9424.	3.7	13
42	Toward real-time monitoring of lithium metal growth and dendrite formation surveillance for safe lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 7090-7099.	10.3	11
43	Bidirectional Catalysts for Liquidâ€“Solid Redox Conversion in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2020, 32, e2000315.	21.0	274
44	Optimized Catalytic WS₂â€“WO₃ Heterostructure Design for Accelerated Polysulfide Conversion in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2000091.	19.5	221
45	Progress and Perspective of Ceramic/Polymer Composite Solid Electrolytes for Lithium Batteries. Advanced Science, 2020, 7, 1903088.	11.2	403
46	Porous spherical NiO@NiMoO4@PPy nanoarchitectures as advanced electrochemical pseudocapacitor materials. Science Bulletin, 2020, 65, 546-556.	9.0	292
47	Structure and thermal stability of LiNi0.8Co0.15Al0.05O2 after long cycling at high temperature. Journal of Power Sources, 2020, 450, 227695.	7.8	16
48	PbTe nanodots confined on ternary B2O3/BC2O/C nanosheets as electrode for efficient sodium storage. Journal of Power Sources, 2020, 461, 228110.	7.8	16
49	Highly microporous SbPO₄/BC_x hybrid anodes for sodium-ion batteries. Materials Advances, 2020, 1, 206-214.	5.4	12
50	Inâ€…Situ Construction of an Ultraâ€Stable Conductive Composite Interface for Highâ€Voltage Allâ€Solidâ€State Lithium Metal Batteries. Angewandte Chemie, 2020, 132, 11882-11886.	2.0	25
51	Improving thermal and mechanical properties of the alumina filled silicone rubber composite by incorporating carbon nanotubes. New Carbon Materials, 2020, 35, 66-72.	6.1	34
52	Inâ€…Situ Construction of an Ultraâ€Stable Conductive Composite Interface for Highâ€Voltage Allâ€Solidâ€State Lithium Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 11784-11788.	13.8	126
53	Graphene-Templated Growth of WS₂ Nanoclusters for Catalytic Conversion of Polysulfides in Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 4923-4930.	5.1	27
54	Graphene induced growth of Sb2WO6 nanosheets for high-performance pseudocapacitive lithium-ion storage. Journal of Alloys and Compounds, 2020, 839, 155614.	5.5	23

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55	A lightweight carbon nanofiber-based 3D structured matrix with high nitrogen-doping level for lithium metal anodes. Science China Materials, 2019, 62, 87-94.	6.3	53
56	LiNi0.8Co0.15Al0.05O2 as both a trapper and accelerator of polysulfides for lithium-sulfur batteries. Energy Storage Materials, 2019, 17, 111-117.	18.0	54
57	Review and prospect of NiCo2O4-based composite materials for supercapacitor electrodes. Journal of Energy Chemistry, 2019, 31, 54-78.	12.9	275
58	An ultrathin and continuous Li4Ti5O12 coated carbon nanofiber interlayer for high rate lithium sulfur battery. Journal of Energy Chemistry, 2019, 31, 19-26.	12.9	70
59	spâ€“sp² hybrid-conjugated microporous polymer-derived Pd-encapsulated porous carbon materials for lithiumâ€“sulfur batteries. Chemical Communications, 2019, 55, 10084-10087.	4.1	6
60	Interconnected Ultrasmall V₂O₃ and Li₄Ti₅O₁₂ Particles Construct Robust Interfaces for Long-Cycling Anodes of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 29993-30000.	8.0	12
61	Constructing Multifunctional Interphase between Li_{1.4}Al_{0.4}Ti_{1.6}(PO₄)₃ and Li Metal by Magnetron Sputtering for Highly Stable Solidâ€State Lithium Metal Batteries. Advanced Energy Materials, 2019, 9, 1901604.	19.5	189
62	Capacity Loss Mechanism of the Li₄Ti₅O₁₂ Microsphere Anode of Lithium-Ion Batteries at High Temperature and Rate Cycling Conditions. ACS Applied Materials & Interfaces, 2019, 11, 37357-37364.	8.0	29
63	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. Nature Communications, 2019, 10, 4244.	12.8	219
64	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
65	Expanded-graphite embedded in lithium metal as dendrite-free anode of lithium metal batteries. Journal of Materials Chemistry A, 2019, 7, 15871-15879.	10.3	68
66	Hierarchical N-doped graphene coated 1D cobalt oxide microrods for robust and fast lithium storage at elevated temperature. Electrochimica Acta, 2019, 310, 70-77.	5.2	55
67	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
68	Thermal design and optimization of lithium ion batteries for unmanned aerial vehicles. Energy Storage, 2019, 1, e48.	4.3	10
69	Liquid electrolyte immobilized in compact polymer matrix for stable sodium metal anodes. Energy Storage Materials, 2019, 23, 610-616.	18.0	40
70	Holey graphenes as the conductive additives for LiFePO4 batteries with an excellent rate performance. Carbon, 2019, 149, 257-262.	10.3	50
71	An ion-conducting SnSâ€“SnS₂hybrid coating for commercial activated carbons enabling their use as high performance anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 10761-10768.	10.3	29
72	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

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73	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. Nature Communications, 2019, 10, 725.	12.8	289
74	Compact Si/C anodes fabricated by simultaneously regulating the size and oxidation degree of Si for Li-ion batteries. Journal of Materials Chemistry A, 2019, 7, 24356-24365.	10.3	42
75	Synthesis of PdM (M = Zn, Cd, ZnCd) Nanosheets with an Unconventional Face-Centered Tetragonal Phase as Highly Efficient Electrocatalysts for Ethanol Oxidation. ACS Nano, 2019, 13, 14329-14336.	14.6	133
76	Allâ€Solidâ€State Batteries: Low Resistanceâ€"Integrated Allâ€Solidâ€State Battery Achieved by Li₇La₃Zr₂O₁₂ Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder (Adv. Funct. Mater. 1/2019). Advanced Functional Materials, 2019, 29, 1970006.	14.9	12
77	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
78	Li6.75La3Zr1.75Ta0.25O12@amorphous Li3OCl composite electrolyte for solid state lithium-metal batteries. Energy Storage Materials, 2018, 14, 49-57.	18.0	118
79	General template-free strategy for fabricating mesoporous two-dimensional mixed oxide nanosheetsviaself-deconstruction/reconstruction of monodispersed metal glycerate nanospheres. Journal of Materials Chemistry A, 2018, 6, 5971-5983.	10.3	81
80	Sulfur-functionalized three-dimensional graphene monoliths as high-performance anodes for ultrafast sodium-ion storage. Chemical Communications, 2018, 54, 4317-4320.	4.1	22
81	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
82	Challenges and perspectives of garnet solid electrolytes for all solid-state lithium batteries. Journal of Power Sources, 2018, 389, 120-134.	7.8	359
83	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
84	Graphene-Directed Formation of a Nitrogen-Doped Porous Carbon Sheet with High Catalytic Performance for the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2018, 122, 13508-13514.	3.1	16
85	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. Materials Horizons, 2018, 5, 275-284.	12.2	129
86	Hierarchically structured carbon nanomaterials for electrochemical energy storage applications. Journal of Materials Research, 2018, 33, 1058-1073.	2.6	33
87	Progress and Perspective of Solidâ€State Lithiumâ€"Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1707570.	14.9	194
88	Different solid electrolyte interface and anode performance of CoCO3 microspheres due to graphene modification and LiCoO2||CoCO3@rGO full cell study. Electrochimica Acta, 2018, 270, 192-204.	5.2	27
89	Controlled synthesis of anisotropic hollow ZnCo2O4 octahedrons for high-performance lithium storage. Energy Storage Materials, 2018, 11, 184-190.	18.0	63
90	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

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91	Effects of solvent on structures and properties of electrospun poly(ethylene oxide) nanofibers. Journal of Applied Polymer Science, 2018, 135, 45787.	2.6	40
92	Fabrication of a quasi-symmetrical solid oxide fuel cell using a modified tape casting/screen-printing/infiltrating combined technique. International Journal of Hydrogen Energy, 2018, 43, 960-967.	7.1	10
93	A Robust Integrated SnO_x/Carbon Composite Anode for Sodiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 10869-10874.	1.5	7
94	Solid-State Electrolytes: Progress and Perspective of Solid-State Lithium-Sulfur Batteries (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	14.9	11
95	Ultra-small self-discharge and stable lithium-sulfur batteries achieved by synergetic effects of multicomponent sandwich-type composite interlayer. Nano Energy, 2018, 50, 367-375.	16.0	109
96	Hollow SnO₂ nanospheres with oxygen vacancies entrapped by a N-doped graphene network as robust anode materials for lithium-ion batteries. Nanoscale, 2018, 10, 11460-11466.	5.6	121
97	All-solid-state flexible planar lithium ion micro-capacitors. Energy and Environmental Science, 2018, 11, 2001-2009.	30.8	160
98	High-Level Heteroatom Doped Two-Dimensional Carbon Architectures for Highly Efficient Lithium-Ion Storage. Frontiers in Chemistry, 2018, 6, 97.	3.6	8
99	Spherical Li Deposited inside 3D Cu Skeleton as Anode with Ultrastable Performance. ACS Applied Materials & Interfaces, 2018, 10, 20244-20249.	8.0	113
100	Functional Carbons Remedy the Shuttling of Polysulfides in Lithiumâ€“Sulfur Batteries: Confining, Trapping, Blocking, and Breaking up. Advanced Functional Materials, 2018, 28, 1800508.	14.9	164
101	Polymerâ€Templated Formation of Polydopamineâ€Coated SnO₂ Nanocrystals: Anodes for Cyclable Lithiumâ€Ion Batteries. Angewandte Chemie, 2017, 129, 1895-1898.	2.0	26
102	Polymerâ€Templated Formation of Polydopamineâ€Coated SnO₂ Nanocrystals: Anodes for Cyclable Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 1869-1872.	13.8	260
103	Highâ€Density Microporous Li₄Ti₅O₁₂ Microbars with Superior Rate Performance for Lithiumâ€Ion Batteries. Advanced Science, 2017, 4, 1600311.	11.2	66
104	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
105	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
106	Suppressing Selfâ€Discharge and Shuttle Effect of Lithiumâ€“Sulfur Batteries with V₂O₅â€Decorated Carbon Nanofiber Interlayer. Small, 2017, 13, 1602539.	10.0	190
107	Siliconâ€Sulfur Batteries: A Novel Lithiated Siliconâ€“Sulfur Battery Exploiting an Optimized Solidâ€Like Electrolyte to Enhance Safety and Cycle Life (Small 3/2017). Small, 2017, 13, .	10.0	0
108	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

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109	A review of gassing behavior in Li₄Ti₅O₁₂-based lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 6368-6381.	10.3	157
110	Influence of charge rate on the cycling degradation of LiFePO4/mesocarbon microbead batteries under low temperature. Ionics, 2017, 23, 1967-1978.	2.4	12
111	Recent innovative configurations in high-energy lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 5222-5234.	10.3	115
112	Zn-substituted CoCO 3 embedded in carbon nanotubes network as high performance anode for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 712, 605-612.	5.5	19
113	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
114	Theoretical Investigation of the Intercalation Chemistry of Lithium/Sodium Ions in Transition Metal Dichalcogenides. Journal of Physical Chemistry C, 2017, 121, 13599-13605.	3.1	87
115	RÃ¼cktitelbild: Polymerâ€Templated Formation of Polydopamineâ€Coated SnO₂ Nanocrystals: Anodes for Cyclable Lithiumâ€Ion Batteries (Angew. Chem. 7/2017). Angewandte Chemie, 2017, 129, 1958-1958.	2.0	2
116	Discovering a First-Order Phase Transition in the Liâ€“CeO₂ System. Nano Letters, 2017, 17, 1282-1288.	9.1	27
117	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
118	A Reduced Graphene Oxide/Disodium Terephthalate Hybrid as a Highâ€Performance Anode for Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 16586-16592.	3.3	12
119	A Facile Surface Reconstruction Mechanism toward Better Electrochemical Performance of Li₄Ti₅O₁₂ in Lithiumâ€Ion Battery. Advanced Science, 2017, 4, 1700205.	11.2	37
120	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
121	A Stable Crossâ€Linked Binder Network for SnO₂ Anode with Enhanced Sodiumâ€Ion Storage Performance. ChemistrySelect, 2017, 2, 11365-11369.	1.5	12
122	Synthesis of Hierarchical Sisal-Like V₂O₅ with Exposed Stable {001} Facets as Long Life Cathode Materials for Advanced Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 43681-43687.	8.0	42
123	Fabrication of an MOF-derived heteroatom-doped Co/CoO/carbon hybrid with superior sodium storage performance for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 15356-15366.	10.3	317
124	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
125	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
126	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

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127	Graphene conductive additives for lithium ion batteries: Origin, progress and prospect. Chinese Science Bulletin, 2017, 62, 3743-3756.	0.7	17
128	Large Polarization of Li₄Ti₅O₁₂ Lithiated to 0 V at Large Charge/Discharge Rates. ACS Applied Materials & Interfaces, 2016, 8, 18788-18796.	8.0	51
129	A Carbonâ€Sulfur Hybrid with Pomegranateâ€like Structure for Lithiumâ€Sulfur Batteries. Chemistry - an Asian Journal, 2016, 11, 1343-1347.	3.3	17
130	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
131	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
132	Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. Nano Letters, 2016, 16, 3585-3593.	9.1	289
133	Sulfur confined in nitrogen-doped microporous carbon used in a carbonate-based electrolyte for long-life, safe lithium-sulfur batteries. Carbon, 2016, 109, 1-6.	10.3	119
134	Abuse tolerance behavior of layered oxide-based Li-ion battery during overcharge and over-discharge. RSC Advances, 2016, 6, 76897-76904.	3.6	80
135	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
136	Construction of a Unique Two-Dimensional Hierarchical Carbon Architecture for Superior Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2016, 8, 33399-33404.	8.0	21
137	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
138	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
139	Chemical Dealloying Derived 3D Porous Current Collector for Li Metal Anodes. Advanced Materials, 2016, 28, 6932-6939.	21.0	751
140	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
141	Micron-sized Spherical Si/C Hybrids Assembled via Water/Oil System for High-Performance Lithium Ion Battery. Electrochimica Acta, 2016, 211, 982-988.	5.2	30
142	A robust strategy for crafting monodisperse Li4Ti5O12 nanospheres as superior rate anode for lithium ion batteries. Nano Energy, 2016, 21, 133-144.	16.0	168
143	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
144	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

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145	Novel gel polymer electrolyte for high-performance lithiumâ€“sulfur batteries. Nano Energy, 2016, 22, 278-289.	16.0	382
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147	Electrolytes: In Situ Synthesis of a Hierarchical All-Solid-State Electrolyte Based on Nitrile Materials for High-Performance Lithium-Ion Batteries (Adv. Energy Mater. 15/2015). Advanced Energy Materials, 2015, 5, n/a-n/a.	19.5	2
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