Jun Yang

List of Publications by Year
in descending order

185 papers	12,672 citations	14655 66 h-index	28297 105 g-index
185 all docs	185 docs citations	185 times ranked	11268 citing authors

#	Article	IF	Citations
1	Polyacrylonitrile/graphene composite as a precursor to a sulfur-based cathode material for high-rate rechargeable Liâ€“S batteries. Energy and Environmental Science, 2012, 5, 6966.	30.8	455
2	Novel Threeâ€Dimensional Mesoporous Silicon for High Power Lithiumâ€Ion Battery Anode Material. Advanced Energy Materials, 2011, 1, 1036-1039.	19.5	374
3	Highly Reversible and Rechargeable Safe Zn Batteries Based on a Triethyl Phosphate Electrolyte. Angewandte Chemie - International Edition, 2019, 58, 2760-2764.	13.8	369
4	Nanosheetâ€Constructed Porous TiO₂â€“B for Advanced Lithium Ion Batteries. Advanced Materials, 2012, 24, 3201-3204.	21.0	360
5	Silicon Microparticle Anodes with Self-Healing Multiple Network Binder. Joule, 2018, 2, 950-961.	24.0	316
6	Novel dual-salts electrolyte solution for dendrite-free lithium-metal based rechargeable batteries with high cycle reversibility. Journal of Power Sources, 2014, 271, 291-297.	7.8	307
7	Sulfurâ€Based Composite Cathode Materials for Highâ€Energy Rechargeable Lithium Batteries. Advanced Materials, 2015, 27, 569-575.	21.0	293
8	Preparation of Carbon-Supported Coreâˆ’Shell Auâˆ’Pt Nanoparticles for Methanol Oxidation Reaction:Â The Promotional Effect of the Au Core. Journal of Physical Chemistry B, 2006, 110, 24606-24611.	2.6	267
9	A Highly Reversible Zn Anode with Intrinsically Safe Organic Electrolyte for Longâ€Cycleâ€Life Batteries. Advanced Materials, 2019, 31, e1900668.	21.0	259
10	Carbonylâ€<i>Î²</i>â€Cyclodextrin as a Novel Binder for Sulfur Composite Cathodes in Rechargeable Lithium Batteries. Advanced Functional Materials, 2013, 23, 1194-1201.	14.9	240
11	Lithium storage in conductive sulfur-containing polymers. Journal of Electroanalytical Chemistry, 2004, 573, 121-128.	3.8	205
12	Room temperature Na/S batteries with sulfur composite cathode materials. Electrochemistry Communications, 2007, 9, 31-34.	4.7	195
13	Recent progress and perspective on lithium metal anode protection. Energy Storage Materials, 2018, 14, 199-221.	18.0	195
14	A novel pyrolyzed polyacrylonitrile-sulfur@MWCNT composite cathode material for high-rate rechargeable lithium/sulfur batteries. Journal of Materials Chemistry, 2011, 21, 6807.	6.7	193
15	Boron-based electrolyte solutions with wide electrochemical windows for rechargeable magnesium batteries. Energy and Environmental Science, 2012, 5, 9100.	30.8	187
16	Towards a Safe Lithiumâ€“Sulfur Battery with a Flameâ€Inhibiting Electrolyte and a Sulfurâ€Based Composite Cathode. Angewandte Chemie - International Edition, 2014, 53, 10099-10104.	13.8	178
17	CNT enhanced sulfur composite cathode material for high rate lithium battery. Electrochemistry Communications, 2011, 13, 399-402.	4.7	165
18	A new ether-based electrolyte for dendrite-free lithium-metal based rechargeable batteries. Scientific Reports, 2016, 6, 21771.	3.3	158

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19	An Intrinsic Flameâ€Retardant Organic Electrolyte for Safe Lithiumâ€Sulfur Batteries. Angewandte Chemie - International Edition, 2019, 58, 791-795.	13.8	152
20	Multilayered Cobalt Oxide Platelets for Negative Electrode Material of a Lithium-Ion Battery. Journal of the Electrochemical Society, 2008, 155, A903.	2.9	151
21	Binder effect on cycling performance of silicon/carbon composite anodes for lithium ion batteries. Journal of Applied Electrochemistry, 2006, 36, 1099-1104.	2.9	149
22	Microporous carbon coated silicon core/shell nanocomposite via in situ polymerization for advanced Li-ion battery anode material. Physical Chemistry Chemical Physics, 2009, 11, 11101.	2.8	130
23	Polymer lithium cells with sulfur composites as cathode materials. Electrochimica Acta, 2003, 48, 1861-1867.	5.2	129
24	Mesoporous magnesium manganese silicate as cathode materials for rechargeable magnesium batteries. Chemical Communications, 2010, 46, 3794.	4.1	129
25	Enhanced Performance of a Lithiumâ€"Sulfur Battery Using a Carbonateâ€Based Electrolyte. Angewandte Chemie - International Edition, 2016, 55, 10372-10375.	13.8	124
26	A novel solid composite polymer electrolyte based on poly(ethylene oxide) segmented polysulfone copolymers for rechargeable lithium batteries. Journal of Membrane Science, 2013, 425-426, 105-112.	8.2	119
27	Facile Spray Drying Route for the Three-Dimensional Graphene-Encapsulated Fe2O3 Nanoparticles for Lithium Ion Battery Anodes. Industrial & Engineering Chemistry Research, 2013, 52, 1197-1204.	3.7	116
28	A novel rechargeable battery with a magnesium anode, a titanium dioxide cathode, and a magnesium borohydride/tetraglyme electrolyte. Chemical Communications, 2015, 51, 2641-2644.	4.1	113
29	Prospect of Sulfurized Pyrolyzed Poly(acrylonitrile) (S@pPAN) Cathode Materials for Rechargeable Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 7306-7318.	13.8	113
30	Investigation on gas generation of Li4Ti5O12/LiNi1/3Co1/3Mn1/3O2 cells at elevated temperature. Journal of Power Sources, 2013, 237, 285-290.	7.8	110
31	Stable Na Metal Anode Enabled by a Reinforced Multistructural SEI Layer. Advanced Functional Materials, 2019, 29, 1901924.	14.9	107
32	Polydopamine Wrapping Silicon Cross-linked with Polyacrylic Acid as High-Performance Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 2899-2904.	8.0	106
33	Phase-controlled synthesis of Î±-NiS nanoparticles confined in carbon nanorods for High Performance Supercapacitors. Scientific Reports, 2014, 4, 7054.	3.3	101
34	Electrolytes for advanced lithium ion batteries using silicon-based anodes. Journal of Materials Chemistry A, 2019, 7, 9432-9446.	10.3	101
35	A high performance lithiumâ€"selenium battery using a microporous carbon confined selenium cathode and a compatible electrolyte. Journal of Materials Chemistry A, 2017, 5, 9350-9357.	10.3	94
36	Advanced semi-interpenetrating polymer network gel electrolyte for rechargeable lithium batteries. Electrochimica Acta, 2015, 152, 489-495.	5.2	92

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37	Lithium sulfur batteries with compatible electrolyte both for stable cathode and dendrite-free anode. Energy Storage Materials, 2018, 15, 299-307.	18.0	92
38	Composite polymer electrolyte doped with mesoporous silica SBA-15 for lithium polymer battery. Solid State Ionics, 2005, 176, 1249-1260.	2.7	91
39	Additive-containing ionic liquid electrolytes for secondary lithium battery. Journal of Power Sources, 2006, 160, 621-626.	7.8	91
40	Investigation on Li4Ti5O12 batteries developed for hybrid electric vehicle. Journal of Applied Electrochemistry, 2012, 42, 989-995.	2.9	91
41	Natural karaya gum as an excellent binder for silicon-based anodes in high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 1919-1924.	10.3	90
42	Synthesis and electrochemical performance of carbon nanofiberâ€“cobalt oxide composites. Electrochimica Acta, 2008, 53, 7326-7330.	5.2	88
43	Highly promoted electrochemical performance of 5 V LiCoPO4 cathode material by addition of vanadium. Journal of Power Sources, 2010, 195, 6884-6887.	7.8	87
44	Morphology regulation and carbon coating of LiMnPO4 cathode material for enhanced electrochemical performance. Journal of Power Sources, 2011, 196, 10258-10262.	7.8	87
45	A novel electrolyte system without a Grignard reagent for rechargeable magnesium batteries. Chemical Communications, 2012, 48, 10763.	4.1	86
46	A novel bath lily-like graphene sheet-wrapped nano-Si composite as a high performance anode material for Li-ion batteries. RSC Advances, 2011, 1, 958.	3.6	85
47	Electrospun V 2 MoO 8 as a cathode material for rechargeable batteries with Mg metal anode. Nano Energy, 2017, 34, 26-35.	16.0	85
48	Solâ€“gel synthesis of Mg1.03Mn0.97SiO4 and its electrochemical intercalation behavior. Journal of Power Sources, 2008, 184, 604-609.	7.8	84
49	Nitrogen-enriched, ordered mesoporous carbons for potential electrochemical energy storage. Journal of Materials Chemistry A, 2016, 4, 2286-2292.	10.3	84
50	Nano-porous Si/C composites for anode material of lithium-ion batteries. Electrochimica Acta, 2007, 52, 5863-5867.	5.2	82
51	Novel carbon nanofiber-cobalt oxide composites for lithium storage with large capacity and high reversibility. Journal of Power Sources, 2008, 176, 369-372.	7.8	82
52	Electrochemical Intercalation of Mg²⁺ in Magnesium Manganese Silicate and Its Application as High-Energy Rechargeable Magnesium Battery Cathode. Journal of Physical Chemistry C, 2009, 113, 12594-12597.	3.1	82
53	Hierarchical Sulfurâ€Based Cathode Materials with Long Cycle Life for Rechargeable Lithium Batteries. ChemSusChem, 2014, 7, 563-569.	6.8	82
54	Nano/micro-structured Si/CNT/C composite from nano-SiO₂for high power lithium ion batteries. Nanoscale, 2014, 6, 12532-12539.	5.6	81

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55	A High-Performance Rechargeable Mg²⁺/Li⁺ Hybrid Battery Using One-Dimensional Mesoporous TiO₂(B) Nanoflakes as the Cathode. ACS Applied Materials & Interfaces, 2016, 8, 7111-7117.	8.0	81
56	Silicon anodes protected by a nitrogen-doped porous carbon shell for high-performance lithium-ion batteries. Nanoscale, 2017, 9, 8871-8878.	5.6	81
57	Stable Lithium Metal Anode Enabled by a Lithiophilic and Electron/Ion Conductive Framework. ACS Nano, 2020, 14, 5618-5627.	14.6	81
58	Towards practical Liâ€“S battery with dense and flexible electrode containing lean electrolyte. Energy Storage Materials, 2020, 27, 307-315.	18.0	80
59	Magnesium cobalt silicate materials for reversible magnesium ion storage. Electrochimica Acta, 2012, 66, 75-81.	5.2	77
60	Artificial Interface Deriving from Sacrificial Tris(trimethylsilyl)phosphate Additive for Lithium Rich Cathode Materials. Electrochimica Acta, 2014, 117, 99-104.	5.2	74
61	Confining small sulfur molecules in peanut shell-derived microporous graphitic carbon for advanced lithium sulfur battery. Electrochimica Acta, 2018, 273, 127-135.	5.2	74
62	Designing an intrinsically safe organic electrolyte for rechargeable batteries. Energy Storage Materials, 2020, 31, 382-400.	18.0	74
63	Fluorine-doped LiNi0.5Mn1.5O4 for 5V cathode materials of lithium-ion battery. Materials Research Bulletin, 2008, 43, 3607-3613.	5.2	72
64	Novel hedgehog-like 5V LiCoPO4 positive electrode material for rechargeable lithium battery. Journal of Power Sources, 2011, 196, 4806-4810.	7.8	70
65	Safer lithiumâ€“sulfur battery based on nonflammable electrolyte with sulfur composite cathode. Chemical Communications, 2018, 54, 4132-4135.	4.1	68
66	Synthesis and characterization of bimetallic Ptâ€“Fe/polypyrroleâ€“carbon catalyst as DMFC anode catalyst. Electrochemistry Communications, 2008, 10, 876-879.	4.7	67
67	Effect of over-oxidation treatment of Ptâ€“Co/polypyrrole-carbon nanotube catalysts on methanol oxidation. International Journal of Hydrogen Energy, 2009, 34, 3908-3914.	7.1	67
68	Guar gum as a novel binder for sulfur composite cathodes in rechargeable lithium batteries. Chemical Communications, 2016, 52, 13479-13482.	4.1	66
69	Li₂O₂ as a cathode additive for the initial anode irreversibility compensation in lithium-ion batteries. Chemical Communications, 2017, 53, 8324-8327.	4.1	65
70	High Active Magnesium Trifluoromethanesulfonate-Based Electrolytes for Magnesiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 9062-9072.	8.0	65
71	Preparation and electrochemical study of a new magnesium intercalation material Mg1.03Mn0.97SiO4. Electrochemistry Communications, 2008, 10, 1291-1294.	4.7	63
72	High-performance Li-Se battery cathode based on CoSe 2 -porous carbon composites. Electrochimica Acta, 2018, 264, 341-349.	5.2	61

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73	MWNT/C/Mg1.03Mn0.97SiO4 hierarchical nanostructure for superior reversible magnesium ion storage. Electrochemistry Communications, 2011, 13, 1143-1146.	4.7	56
74	Application of a Sulfur Cathode in Nucleophilic Electrolytes for Magnesium/Sulfur Batteries. Journal of the Electrochemical Society, 2017, 164, A2504-A2512.	2.9	55
75	An Efficient Bulky Mg[B(Otfe)₄]₂ Electrolyte and Its Derivatively General Design Strategy for Rechargeable Magnesium Batteries. ACS Energy Letters, 2021, 6, 3212-3220.	17.4	55
76	Sulfur@microporous Carbon Cathode with a High Sulfur Content for Magnesiumâ€“Sulfur Batteries with Nucleophilic Electrolytes. Journal of Physical Chemistry C, 2018, 122, 26764-26776.	3.1	53
77	Study of electronic effect of Grignard reagents on their electrochemical behavior. Electrochemistry Communications, 2010, 12, 1671-1673.	4.7	52
78	MgFeSiO4 prepared via a molten salt method as a new cathode material for rechargeable magnesium batteries. Science Bulletin, 2011, 56, 386-390.	1.7	52
79	TPPi as a flame retardant for rechargeable lithium batteries with sulfur composite cathodes. Chemical Communications, 2014, 50, 7011-7013.	4.1	52
80	Co@Ptâ€“Ru core-shell nanoparticles supported on multiwalled carbon nanotube for methanol oxidation. Electrochemistry Communications, 2008, 10, 1527-1529.	4.7	51
81	Electrochemical intercalation of Mg2+ in 3D hierarchically porous magnesium cobalt silicate and its application as an advanced cathode material in rechargeable magnesium batteries. Journal of Materials Chemistry, 2011, 21, 12437.	6.7	51
82	Nonflammable electrolyte for rechargeable lithium battery with sulfur based composite cathode materials. Journal of Power Sources, 2013, 223, 18-22.	7.8	51
83	High concentration magnesium borohydride/tetraglyme electrolyte for rechargeable magnesium batteries. Journal of Power Sources, 2015, 276, 255-261.	7.8	50
84	Effect of Mg²⁺/Li⁺ mixed electrolytes on a rechargeable hybrid battery with Li₄Ti₅O₁₂ cathode and Mg anode. RSC Advances, 2016, 6, 3231-3234.	3.6	50
85	Dual-mode sulfur-based cathode materials for rechargeable Liâ€“S batteries. Chemical Communications, 2012, 48, 7868.	4.1	49
86	Uniform Carbon Coating on Silicon Nanoparticles by Dynamic CVD Process for Electrochemical Lithium Storage. Industrial & Engineering Chemistry Research, 2014, 53, 12697-12704.	3.7	49
87	Reversibility of electrochemical magnesium deposition from tetrahydrofuran solutions containing pyrrolidinyl magnesium halide. Electrochimica Acta, 2011, 56, 6530-6535.	5.2	48
88	Cu5Siâ€“Si/C composites for lithium-ion battery anodes. Journal of Power Sources, 2006, 153, 371-374.	7.8	46
89	Effects of binders on the electrochemical performance of rechargeable magnesium batteries. Journal of Power Sources, 2017, 341, 219-229.	7.8	46
90	Direct scattered growth of MWNT on Si for high performance anode material in Li-ion batteries. Chemical Communications, 2010, 46, 9149.	4.1	44

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91	A new ether-based electrolyte for lithium sulfur batteries using a S@pPAN cathode. Chemical Communications, 2018, 54, 5478-5481.	4.1	44
92	Metal Organic Framework (MOF)-Derived carbon-encapsulated cuprous sulfide cathode based on displacement reaction for Hybrid Mg2+/Li+ batteries. Journal of Power Sources, 2020, 445, 227325.	7.8	44
93	A stable organicâ€“inorganic hybrid layer protected lithium metal anode for long-cycle lithium-oxygen batteries. Journal of Power Sources, 2017, 366, 265-269.	7.8	42
94	Graphene-coupled nitrogen-enriched porous carbon nanosheets for energy storage. Journal of Materials Chemistry A, 2017, 5, 16732-16739.	10.3	42
95	Inherently flame-retardant solid polymer electrolyte for safety-enhanced lithium metal battery. Chemical Engineering Journal, 2021, 410, 128415.	12.7	42
96	Polymer electrolytes for rechargeable lithium metal batteries. Sustainable Energy and Fuels, 2020, 4, 5469-5487.	4.9	41
97	Composites of LiMnPO4 with Li3V2(PO4)3 for cathode in lithium-ion battery. Electrochimica Acta, 2013, 103, 96-102.	5.2	40
98	Study of spinel Li4Ti5O12 electrode reaction mechanism by electrochemical impedance spectroscopy. Electrochimica Acta, 2013, 108, 841-851.	5.2	40
99	Hybrid Mg2+/Li+ batteries with Cu2Se cathode based on displacement reaction. Electrochimica Acta, 2018, 261, 503-512.	5.2	39
100	Highly Reversible Lithium-Metal Anode and Lithiumâ€“Sulfur Batteries Enabled by an Intrinsic Safe Electrolyte. ACS Applied Materials & Interfaces, 2019, 11, 33419-33427.	8.0	38
101	Electrodeposited porous-microspheres Liâ€“Si films as negative electrodes in lithium-ion batteries. Journal of Power Sources, 2011, 196, 3868-3873.	7.8	37
102	A compatible carbonate electrolyte with lithium anode for high performance lithium sulfur battery. Electrochimica Acta, 2018, 282, 555-562.	5.2	37
103	Electrochemical performance of novel electrolyte solutions based on organoboron magnesium salts. Electrochemistry Communications, 2012, 18, 24-27.	4.7	36
104	A high performance lithium-ionâ€“sulfur battery with a free-standing carbon matrix supported Li-rich alloy anode. Chemical Science, 2018, 9, 8829-8835.	7.4	36
105	A conductive selenized polyacrylonitrile cathode in nucleophilic Mg²⁺/Li⁺ hybrid electrolytes for magnesiumâ€“selenium batteries. Journal of Materials Chemistry A, 2018, 6, 17075-17085.	10.3	35
106	Low-cost SiO-based anode using green binders for lithium ion batteries. Journal of Solid State Electrochemistry, 2013, 17, 2461-2469.	2.5	34
107	Magnesium Borohydride-Based Electrolytes Containing 1-butyl-1-methylpiperidinium bis(trifluoromethyl sulfonyl)imide Ionic Liquid for Rechargeable Magnesium Batteries. Journal of the Electrochemical Society, 2016, 163, D682-D688.	2.9	34
108	Tea polyphenol-inspired tannic acid-treated polypropylene membrane as a stable separator for lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2017, 5, 12782-12786.	10.3	34

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109	High Molecular Weight Polyacrylonitrile Precursor for S@pPAN Composite Cathode Materials with High Specific Capacity for Rechargeable Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 33702-33709.	8.0	34
110	NiMn₂O₄ as an efficient cathode catalyst for rechargeable lithiumâ€“air batteries. Chemical Communications, 2017, 53, 8164-8167.	4.1	33
111	Duplex component additive of tris(trimethylsilyl) phosphite-vinylene carbonate for lithium sulfur batteries. Energy Storage Materials, 2018, 14, 75-81.	18.0	33
112	A novel magnesium electrolyte containing a magnesium bis(diisopropyl)amideâ€“magnesium chloride complex for rechargeable magnesium batteries. Journal of Materials Chemistry A, 2019, 7, 18295-18303.	10.3	32
113	Inâ€Situ Lattice Tunnel Intercalation of Vanadium Pentoxide for Improving Longâ€Term Performance of Rechargeable Magnesium Batteries. ChemNanoMat, 2022, 8, .	2.8	32
114	Flexible Ionic Conducting Elastomers for All-Solid-State Room-Temperature Lithium Batteries. ACS Applied Energy Materials, 2018, 1, 6769-6773.	5.1	31
115	Sulfur-anchored azulene as a cathode material for Liâ€“S batteries. Chemical Communications, 2019, 55, 9047-9050.	4.1	31
116	Molybdenum dioxide hollow microspheres for cathode material in rechargeable hybrid battery using magnesium anode. Journal of Solid State Electrochemistry, 2015, 19, 3347-3353.	2.5	30
117	A SnO₂-Based Cathode Catalyst for Lithium-Air Batteries. ACS Applied Materials & Interfaces, 2016, 8, 12804-12811.	8.0	30
118	Bicomponent electrolyte additive excelling fluoroethylene carbonate for high performance Si-based anodes and lithiated Si-S batteries. Energy Storage Materials, 2019, 20, 388-394.	18.0	30
119	Prospect of Sulfurized Pyrolyzed Poly(acrylonitrile) (S@pPAN) Cathode Materials for Rechargeable Lithium Batteries. Angewandte Chemie, 2020, 132, 7374-7386.	2.0	30
120	Halogen-free boron based electrolyte solution for rechargeable magnesium batteries. Journal of Power Sources, 2014, 248, 690-694.	7.8	28
121	Enhanced Performance of a Lithiumâ€“Sulfur Battery Using a Carbonateâ€Based Electrolyte. Angewandte Chemie, 2016, 128, 10528-10531.	2.0	28
122	AlF₃-Modified carbon nanofibers as a multifunctional 3D interlayer for stable lithium metal anodes. Chemical Communications, 2018, 54, 8347-8350.	4.1	28
123	Dense and high loading sulfurized pyrolyzed poly (acrylonitrile)(S@pPAN) cathode for rechargeable lithium batteries. Energy Storage Materials, 2020, 31, 187-194.	18.0	28
124	Recent progress on selenium-based cathode materials for rechargeable magnesium batteries: A mini review. Journal of Materials Science and Technology, 2021, 91, 168-177.	10.7	28
125	Carbon-coated graphene/antimony composite with a sandwich-like structure for enhanced sodium storage. Journal of Materials Chemistry A, 2017, 5, 20623-20630.	10.3	27
126	Prelithiation Activates Fe₂(MoO₄)₃Cathode for Rechargeable Hybrid Mg²⁺/Li⁺Batteries. ACS Applied Materials & Interfaces, 2017, 9, 38455-38466.	8.0	26

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127	High-Safety and Long-Life Silicon-Based Lithium-Ion Batteries via a Multifunctional Binder. ACS Applied Materials & Interfaces, 2020, 12, 54842-54850.	8.0	26
128	SnSe₂/FeSe₂ Nanocubes Capsulated in Nitrogenâ€Doped Carbon Realizing Stable Sodiumâ€Ion Storage at Ultrahigh Rate. Small Methods, 2021, 5, e2100437.	8.6	26
129	A new flame-retardant polymer electrolyte with enhanced Li-ion conductivity for safe lithium-sulfur batteries. Journal of Energy Chemistry, 2022, 65, 616-622.	12.9	26
130	Porous microspherical silicon composite anode material for lithium ion battery. Electrochimica Acta, 2015, 178, 65-73.	5.2	25
131	Graphite fluoride as a cathode material for primary magnesium batteries with high energy density. Electrochimica Acta, 2016, 210, 704-711.	5.2	25
132	Suppressing Dendrite Growth of a Lithium Metal Anode by Modifying Conventional Polypropylene Separators with a Composite Layer. ACS Applied Energy Materials, 2020, 3, 506-513.	5.1	24
133	A lithium-ion oxygen battery with a Si anode lithiated <i>in situ</i> by a Li₃N-containing cathode. Chemical Communications, 2018, 54, 1069-1072.	4.1	23
134	An Intrinsic Flameâ€Retardant Organic Electrolyte for Safe Lithiumâ€Sulfur Batteries. Angewandte Chemie, 2019, 131, 801-805.	2.0	23
135	Electrochemical polymerization of nonflammable electrolyte enabling fast-charging lithium-sulfur battery. Energy Storage Materials, 2022, 50, 387-394.	18.0	23
136	Hollow palladium nanospheres with porous shells supported on graphene as enhanced electrocatalysts for formic acid oxidation. Physical Chemistry Chemical Physics, 2013, 15, 19353.	2.8	19
137	Bioinspired pomegranate-like microflowers confining core-shell binary Ni_xS_y nanobeads for efficient supercapacitors exhibiting a durable lifespan exceeding 100â€‰000 cycles. Journal of Materials Chemistry A, 2019, 7, 3432-3442.	10.3	19
138	A Chlorine-Free Electrolyte Based on Non-nucleophilic Magnesium Bis(diisopropyl)amide and Ionic Liquid for Rechargeable Magnesium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 32957-32967.	8.0	19
139	Highly stable lithium metal composite anode with a flexible 3D lithiophilic skeleton. Nano Energy, 2022, 95, 107013.	16.0	19
140	Superior rate capability of a sulfur composite cathode in a tris(trimethylsilyl)borate-containing functional electrolyte. Chemical Communications, 2016, 52, 14430-14433.	4.1	18
141	Integrated Composite Polymer Electrolyte Cross-Linked with SiO₂-Reinforced Layer for Enhanced Li-Ion Conductivity and Lithium Dendrite Inhibition. ACS Applied Energy Materials, 2020, 3, 8552-8561.	5.1	18
142	Nano-tin alloys dispersed in oxides for lithium storage materials. Journal of Power Sources, 2007, 174, 624-627.	7.8	17
143	A Facile 3D Binding Approach for High Si Loading Anodes. Electrochimica Acta, 2016, 212, 141-146.	5.2	17
144	Scalable and Costâ€Effective Preparation of Hierarchical Porous Silicon with a High Conversion Yield for Superior Lithiumâ€Ion Storage. Energy Technology, 2016, 4, 593-599.	3.8	17

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145	A fumed alumina induced gel-like electrolyte for great performance improvement of lithiumâ€“sulfur batteries. Chemical Communications, 2018, 54, 13567-13570.	4.1	17
146	Sulfurized-Pyrolyzed Polyacrylonitrile Cathode for Magnesium-Sulfur Batteries Containing Mg2+/Li+ Hybrid Electrolytes. Chemical Engineering Journal, 2022, 427, 130902.	12.7	17
147	Reversible Deposition and Dissolution of Magnesium from Imidazolium-Based Ionic Liquids. International Journal of Electrochemistry, 2012, 2012, 1-8.	2.4	16
148	A novel thiolate-based electrolyte system for rechargeable magnesium batteries. Electrochimica Acta, 2014, 121, 258-263.	5.2	16
149	Silica-nanoresin crosslinked composite polymer electrolyte for ambient-temperature all-solid-state lithium batteries. Materials Chemistry Frontiers, 2021, 5, 6502-6511.	5.9	16
150	Fabrication of Elastic Cyclodextrin-Based Triblock Polymer Electrolytes for All-Solid-State Lithium Metal Batteries. ACS Applied Energy Materials, 2021, 4, 9402-9411.	5.1	16
151	A crosslinking hydrogel binder for high-sulfur content S@pPAN cathode in rechargeable lithium batteries. Journal of Energy Chemistry, 2021, 60, 360-367.	12.9	16
152	A Lithiated Perfluorinated Sulfonic Acid Polymer Electrolyte for Lithium-Oxygen Batteries. Journal of the Electrochemical Society, 2017, 164, A2031-A2037.	2.9	15
153	Nano-/Microhierarchical-Structured LiMn_{0.85}Fe_{0.15}PO₄ Cathode Material for Advanced Lithium Ion Battery. ACS Applied Materials & Interfaces, 2018, 10, 43552-43560.	8.0	15
154	Crosslinked polyacrylonitrile precursor for S@pPAN composite cathode materials for rechargeable lithium batteries. Journal of Energy Chemistry, 2022, 65, 186-193.	12.9	15
155	Highly Reversible Lithiumâ€ions Storage of Molybdenum Dioxide Nanoplates for High Power Lithiumâ€ion Batteries. ChemSusChem, 2015, 8, 2621-2624.	6.8	14
156	A superb 3D composite lithium metal anode prepared by in-situ lithiation of sulfurized polyacrylonitrile. Energy Storage Materials, 2020, 33, 452-459.	18.0	14
157	Sodium Polyacrylate as a Promising Aqueous Binder of S@pPAN Cathodes for Magnesiumâ€“Sulfur Batteries. Journal of Physical Chemistry C, 2020, 124, 20712-20721.	3.1	14
158	Ion conduction in the comb-branched polyether electrolytes with controlled network structures. Soft Matter, 2020, 16, 1979-1988.	2.7	14
159	Dramatic improvement in high-rate capability of LiMnPO4 nanosheets via crystallite size regulation. Journal of Alloys and Compounds, 2022, 894, 162510.	5.5	14
160	Conductive Sulfur-Containing Material/Polyaniline Composite for Cathode Material of Rechargeable Magnesium Batteries. Acta Physico-chimica Sinica, 2007, 23, 327-331.	0.6	13
161	Carbyne Polysulfide as a Novel Cathode Material for Rechargeable Magnesium Batteries. Scientific World Journal, The, 2014, 2014, 1-7.	2.1	13
162	A polyimide ion-conductive protection layer to suppress side reactions on Li4Ti5O12electrodes at elevated temperature. RSC Advances, 2014, 4, 10280-10283.	3.6	13

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163	Cerium triflate as superoxide radical scavenger to improve cycle life of Li O2 battery. Journal of Power Sources, 2019, 414, 327-332.	7.8	13
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165	Ethylene sulfite based electrolyte for non-aqueous lithium oxygen batteries. Chinese Chemical Letters, 2016, 27, 1485-1489.	9.0	11
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