

Renjie Chen

List of Publications by Year in descending order

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4120

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all docs

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Sustainable Recycling Technology for Li-Ion Batteries and Beyond: Challenges and Future Prospects. <i>Chemical Reviews</i> , 2020, 120, 7020-7063.	23.0	957
2	Toward sustainable and systematic recycling of spent rechargeable batteries. <i>Chemical Society Reviews</i> , 2018, 47, 7239-7302.	18.7	624
3	The pursuit of solid-state electrolytes for lithium batteries: from comprehensive insight to emerging horizons. <i>Materials Horizons</i> , 2016, 3, 487-516.	6.4	592
4	Recovery of cobalt and lithium from spent lithium ion batteries using organic citric acid as leachant. <i>Journal of Hazardous Materials</i> , 2010, 176, 288-293.	6.5	469
5	Environmental friendly leaching reagent for cobalt and lithium recovery from spent lithium-ion batteries. <i>Waste Management</i> , 2010, 30, 2615-2621.	3.7	389
6	Graphene-Based Three-Dimensional Hierarchical Sandwich-type Architecture for High-Performance Li/S Batteries. <i>Nano Letters</i> , 2013, 13, 4642-4649.	4.5	385
7	Succinic acid-based leaching system: A sustainable process for recovery of valuable metals from spent Li-ion batteries. <i>Journal of Power Sources</i> , 2015, 282, 544-551.	4.0	343
8	A Review of Functional Binders in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802107.	10.2	324
9	Ni-Rich $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Oxide Coated by Dual-Conductive Layers as High Performance Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29732-29743.	4.0	309
10	Ultrathin Surface Coating of Nitrogen-Doped Graphene Enables Stable Zinc Anodes for Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2101649.	11.1	302
11	Sustainable Recovery of Cathode Materials from Spent Lithium-Ion Batteries Using Lactic Acid Leaching System. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5224-5233.	3.2	301
12	A High-Efficiency CoSe Electrocatalyst with Hierarchical Porous Polyhedron Nanoarchitecture for Accelerating Polysulfides Conversion in Li-S Batteries. <i>Advanced Materials</i> , 2020, 32, e2002168.	11.1	281
13	Free-Standing Hierarchically Sandwich-Type Tungsten Disulfide Nanotubes/Graphene Anode for Lithium-Ion Batteries. <i>Nano Letters</i> , 2014, 14, 5899-5904.	4.5	268
14	Process for recycling mixed-cathode materials from spent lithium-ion batteries and kinetics of leaching. <i>Waste Management</i> , 2018, 71, 362-371.	3.7	267
15	Electrolytes and Electrolyte/Electrode Interfaces in Sodium-Ion Batteries: From Scientific Research to Practical Application. <i>Advanced Materials</i> , 2019, 31, e1808393.	11.1	264
16	Recovery of valuable metals from spent lithium-ion batteries by ultrasonic-assisted leaching process. <i>Journal of Power Sources</i> , 2014, 262, 380-385.	4.0	242
17	The Recycling of Spent Lithium-Ion Batteries: a Review of Current Processes and Technologies. <i>Electrochemical Energy Reviews</i> , 2018, 1, 461-482.	13.1	215
18	Biomimetic ant-nest ionogel electrolyte boosts the performance of dendrite-free lithium batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1660-1667.	15.6	211

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19	A novel border-rich Prussian blue synthesized by inhibitor control as cathode for sodium ion batteries. <i>Nano Energy</i> , 2017, 39, 273-283.	8.2	208
20	In Situ Grain Boundary Functionalization for Stable and Efficient Inorganic CsPbI ₂ Br Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1801050.	10.2	195
21	Multifunctional AlPO ₄ Coating for Improving Electrochemical Properties of Low-Cost Li _{0.2} Fe _{0.1} Ni _{0.15} Mn _{0.55} O ₂ Cathode Materials for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3773-3781.	4.0	189
22	Preparation of LiCoO ₂ films from spent lithium-ion batteries by a combined recycling process. <i>Hydrometallurgy</i> , 2011, 108, 220-225.	1.8	187
23	Electrolytes for Rechargeable Lithium-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2974-2997.	7.2	187
24	Nitrogen-Rich Mesoporous Carbon as Anode Material for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27124-27130.	4.0	185
25	Economical recycling process for spent lithium-ion batteries and macro- and micro-scale mechanistic study. <i>Journal of Power Sources</i> , 2018, 377, 70-79.	4.0	184
26	Self-Assembly of 0D-2D Heterostructure Electrocatalyst from MOF and MXene for Boosted Lithium Polysulfide Conversion Reaction. <i>Advanced Materials</i> , 2021, 33, e2101204.	11.1	183
27	Ionogel Electrolytes for High-Performance Lithium Batteries: A Review. <i>Advanced Energy Materials</i> , 2018, 8, 1702675.	10.2	182
28	Advanced High Energy Density Secondary Batteries with Multi-Electron Reaction Materials. <i>Advanced Science</i> , 2016, 3, 1600051.	5.6	180
29	A Comprehensive Review of the Advancement in Recycling the Anode and Electrolyte from Spent Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13527-13554.	3.2	179
30	P-doped NiTe ₂ with Te Vacancies in Lithium-Sulfur Batteries Prevents Shuttling and Promotes Polysulfide Conversion. <i>Advanced Materials</i> , 2022, 34, e2106370.	11.1	173
31	Improvement of Rate and Cycle Performance by Rapid Polyaniline Coating of a MWCNT/Sulfur Cathode. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24411-24417.	1.5	172
32	Anode Interface Engineering and Architecture Design for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019, 31, e1806532.	11.1	172
33	From a historic review to horizons beyond: lithium-sulphur batteries run on the wheels. <i>Chemical Communications</i> , 2015, 51, 18-33.	2.2	170
34	Hierarchical porous Co _{0.85} Se@reduced graphene oxide ultrathin nanosheets with vacancy-enhanced kinetics as superior anodes for sodium-ion batteries. <i>Nano Energy</i> , 2018, 53, 524-535.	8.2	165
35	Design of surface protective layer of LiF/FeF ₃ nanoparticles in Li-rich cathode for high-capacity Li-ion batteries. <i>Nano Energy</i> , 2015, 15, 164-176.	8.2	162
36	An Effective Approach To Protect Lithium Anode and Improve Cycle Performance for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15542-15549.	4.0	157

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37	Exceptional adsorption and catalysis effects of hollow polyhedra/carbon nanotube confined CoP nanoparticles superstructures for enhanced lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 64, 103965.	8.2	153
38	Encapsulation of Metallic Zn in a Hybrid MXene/Graphene Aerogel as a Stable Zn Anode for Foldable Zn-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2106897.	11.1	153
39	3D-0D Graphene-Fe ₃ O ₄ Quantum Dot Hybrids as High-Performance Anode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26878-26885.	4.0	152
40	Atomic Iron Catalysis of Polysulfide Conversion in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19311-19317.	4.0	152
41	Selective Recovery of Li and Fe from Spent Lithium-Ion Batteries by an Environmentally Friendly Mechanochemical Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11029-11035.	3.2	152
42	Nitrogen-doped carbon/graphene hybrid anode material for sodium-ion batteries with excellent rate capability. <i>Journal of Power Sources</i> , 2016, 319, 195-201.	4.0	150
43	Sustainable Recycling and Regeneration of Cathode Scraps from Industrial Production of Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 7041-7049.	3.2	148
44	Freestanding three-dimensional core-shell nanoarrays for lithium-ion battery anodes. <i>Nature Communications</i> , 2016, 7, 11774.	5.8	143
45	Rational Design of MOF-Based Materials for Next-Generation Rechargeable Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 203.	14.4	143
46	An investigation of functionalized electrolyte using succinonitrile additive for high voltage lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 306, 70-77.	4.0	140
47	Innovative Application of Acid Leaching to Regenerate Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ Cathodes from Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5959-5968.	3.2	140
48	Chemical Inhibition Method to Synthesize Highly Crystalline Prussian Blue Analogs for Sodium-Ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31669-31676.	4.0	139
49	Environmentally benign process for selective recovery of valuable metals from spent lithium-ion batteries by using conventional sulfation roasting. <i>Green Chemistry</i> , 2019, 21, 5904-5913.	4.6	136
50	Metal-organic frameworks composites threaded on the CNT knitted separator for suppressing the shuttle effect of lithium sulfur batteries. <i>Energy Storage Materials</i> , 2018, 14, 383-391.	9.5	135
51	Revealing of Active Sites and Catalytic Mechanism in N-Coordinated Fe, Ni Dual-Doped Carbon with Superior Acidic Oxygen Reduction than Single-Atom Catalyst. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1404-1410.	2.1	131
52	Recent advances in nanostructured carbon for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1604-1630.	5.2	130
53	Flexible, conductive, and highly pressure-sensitive graphene-polyimide foam for pressure sensor application. <i>Composites Science and Technology</i> , 2018, 164, 187-194.	3.8	129
54	Development and Challenges of Functional Electrolytes for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1800919.	7.8	129

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55	Enhanced Performance of a Lithium-Sulfur Battery Using a Carbonate-Based Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10372-10375.	7.2	124
56	Electro-Chemo-Mechanical Issues at the Interfaces in Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1900950.	7.8	124
57	Enhanced Electrochemical Kinetics with Highly Dispersed Conductive and Electrocatalytic Mediators for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021, 33, e2100810.	11.1	121
58	Advanced Lithium-Sulfur Batteries Enabled by a Bio-Inspired Polysulfide Adsorptive Brush. <i>Advanced Functional Materials</i> , 2016, 26, 8418-8426.	7.8	120
59	Advanced cathode materials for lithium-ion batteries using nanoarchitectonics. <i>Nanoscale Horizons</i> , 2016, 1, 423-444.	4.1	119
60	Surface Modification of Li-Rich Cathode Materials for Lithium-Ion Batteries with a PEDOT:PSS Conducting Polymer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23095-23104.	4.0	119
61	Boosting Fast Sodium Storage of a Large-Scalable Carbon Anode with an Ultralong Cycle Life. <i>Advanced Energy Materials</i> , 2018, 8, 1703159.	10.2	119
62	Novel Solid-State Li/LiFePO ₄ Battery Configuration with a Ternary Nanocomposite Electrolyte for Practical Applications. <i>Advanced Materials</i> , 2011, 23, 5081-5085.	11.1	116
63	Conversion Mechanisms of Selective Extraction of Lithium from Spent Lithium-Ion Batteries by Sulfation Roasting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18482-18489.	4.0	115
64	Flexible Hydrogel Electrolyte with Superior Mechanical Properties Based on Poly(vinyl alcohol) and Bacterial Cellulose for the Solid-State Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15537-15542.	4.0	113
65	Protecting lithium/sodium metal anode with metal-organic framework based compact and robust shield. <i>Nano Energy</i> , 2019, 60, 866-874.	8.2	113
66	Use of Ce to Reinforce the Interface of Ni-Rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials for Lithium-Ion Batteries under High Operating Voltage. <i>ChemSusChem</i> , 2019, 12, 935-943.	3.6	113
67	Electrostatic Self-assembly of 2D SnO ₂ Quantum Dots/Ti ₃ C ₂ T _x MXene Hybrids as Anode for Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 65.	14.4	112
68	A 3D flower-like VO ₂ /MXene hybrid architecture with superior anode performance for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1315-1322.	5.2	112
69	Low-Temperature Molten-Salt-Assisted Recovery of Valuable Metals from Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16144-16150.	3.2	111
70	Systematic Effect for an Ultralong Cycle Lithium-Sulfur Battery. <i>Nano Letters</i> , 2015, 15, 7431-7439.	4.5	110
71	Toward Practical High-Energy Batteries: A Modular-Assembled Oval-Like Carbon Microstructure for Thick Sulfur Electrodes. <i>Advanced Materials</i> , 2017, 29, 1700598.	11.1	110
72	A green and effective room-temperature recycling process of LiFePO ₄ cathode materials for lithium-ion batteries. <i>Waste Management</i> , 2019, 85, 437-444.	3.7	110

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73	High-Rate and Cycling-Stable Nickel-Rich Cathode Materials with Enhanced Li ⁺ Diffusion Pathway. ACS Applied Materials & Interfaces, 2016, 8, 582-587.	4.0	108
74	Layer-by-Layer Assembled Architecture of Polyelectrolyte Multilayers and Graphene Sheets on Hollow Carbon Spheres/Sulfur Composite for High-Performance Lithium-Sulfur Batteries. Nano Letters, 2016, 16, 5488-5494.	4.5	104
75	A Chemical Precipitation Method Preparing Hollow "Core" Shell Heterostructures Based on the Prussian Blue Analogs as Cathode for Sodium-Ion Batteries. Small, 2018, 14, e1801246.	5.2	104
76	Nature-Inspired Na ₂ Ti ₃ O ₇ Nanosheets-Formed Three-Dimensional Microflowers Architecture as a High-Performance Anode Material for Rechargeable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 11669-11677.	4.0	103
77	"Liquid-in-Solid" and "Solid-in-Liquid" Electrolytes with High Rate Capacity and Long Cycling Life for Lithium-Ion Batteries. Chemistry of Materials, 2016, 28, 848-856.	3.2	100
78	Refining Energy Levels in ReS ₂ Nanosheets by Low-Valent Transition-Metal Doping for Dual-Boosted Electrochemical Ammonia/Hydrogen Production. Advanced Functional Materials, 2020, 30, 1907376.	7.8	99
79	Synthesis and electrochemical performance of cathode material Li _{1.2} Co _{0.13} Ni _{0.13} Mn _{0.54} O ₂ from spent lithium-ion batteries. Journal of Power Sources, 2014, 249, 28-34.	4.0	98
80	Exposing the {010} Planes by Oriented Self-Assembly with Nanosheets To Improve the Electrochemical Performances of Ni-Rich Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ Microspheres. ACS Applied Materials & Interfaces, 2018, 10, 6407-6414.	4.0	98
81	High-Performance Aqueous Zinc Batteries Based on Organic/Organic Cathodes Integrating Multiredox Centers. Advanced Materials, 2021, 33, e2106469.	11.1	98
82	Synthesis, characterization, and electrochemistry of cathode material Li[Li _{0.2} Co _{0.13} Ni _{0.13} Mn _{0.54}]O ₂ using organic chelating agents for lithium-ion batteries. Journal of Power Sources, 2013, 228, 206-213.	4.0	97
83	An MXene/CNTs@P nanohybrid with stable Ti-O-P bonds for enhanced lithium ion storage. Journal of Materials Chemistry A, 2019, 7, 21766-21773.	5.2	97
84	A Highly Conductive COF@CNT Electrocatalyst Boosting Polysulfide Conversion for Li-S Chemistry. ACS Energy Letters, 2021, 6, 3053-3062.	8.8	97
85	Structural and Electrochemical Study of Hierarchical LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 21939-21947.	4.0	95
86	Preparation of Prussian Blue Submicron Particles with a Pore Structure by Two-Step Optimization for Na-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2016, 8, 16078-16086.	4.0	95
87	Competitive Solvation Enhanced Stability of Lithium Metal Anode in Dual-Salt Electrolyte. Nano Letters, 2021, 21, 3310-3317.	4.5	95
88	Preparation of MnO ₂ -Modified Graphite Sorbents from Spent Li-Ion Batteries for the Treatment of Water Contaminated by Lead, Cadmium, and Silver. ACS Applied Materials & Interfaces, 2017, 9, 25369-25376.	4.0	94
89	Na ₂ Ni _x Co _{1-x} Fe(CN) ₆ : A class of Prussian blue analogs with transition metal elements as cathode materials for sodium ion batteries. Electrochemistry Communications, 2015, 59, 91-94.	2.3	93
90	Facile Synthesis of Boron-Doped rGO as Cathode Material for High Energy Li-O ₂ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23635-23645.	4.0	93

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91	Nature-Inspired, Graphene-Wrapped 3D MoS ₂ Ultrathin Microflower Architecture as a High-Performance Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 22323-22331.	4.0	93
92	An "Ether-In-Water" Electrolyte Boosts Stable Interfacial Chemistry for Aqueous Lithium-Ion Batteries. Advanced Materials, 2020, 32, e2004017.	11.1	93
93	Organically modified silica-supported ionogels electrolyte for high temperature lithium-ion batteries. Nano Energy, 2017, 31, 9-18.	8.2	91
94	Boosting High-Rate Li-S Batteries by an MOF-Derived Catalytic Electrode with a Layer-by-Layer Structure. Advanced Science, 2019, 6, 1802362.	5.6	91
95	Improving the cycling stability of Ni-rich cathode materials by fabricating surface rock salt phase. Electrochimica Acta, 2018, 292, 217-226.	2.6	90
96	Platinum-Coated Hollow Graphene Nanocages as Cathode Used in Lithium-Oxygen Batteries. Advanced Functional Materials, 2016, 26, 7626-7633.	7.8	88
97	A Li ⁺ conductive metal organic framework electrolyte boosts the high-temperature performance of dendrite-free lithium batteries. Journal of Materials Chemistry A, 2019, 7, 9530-9536.	5.2	88
98	Electrocatalytic Interlayer with Fast Lithium Polysulfides Diffusion for Lithium-Sulfur Batteries to Enhance Electrochemical Kinetics under Lean Electrolyte Conditions. Advanced Functional Materials, 2020, 30, 2000742.	7.8	87
99	High voltage and safe electrolytes based on ionic liquid and sulfone for lithium-ion batteries. Journal of Power Sources, 2013, 233, 115-120.	4.0	86
100	Polyethylene waste carbons with a mesoporous network towards highly efficient supercapacitors. Chemical Engineering Journal, 2019, 366, 313-320.	6.6	86
101	Life Cycle Assessment of Lithium-ion Batteries: A Critical Review. Resources, Conservation and Recycling, 2022, 180, 106164.	5.3	86
102	Reduced graphene oxide aerogel as stable host for dendrite-free sodium metal anode. Energy Storage Materials, 2019, 22, 376-383.	9.5	85
103	Establishing Thermal Infusion Method for Stable Zinc Metal Anodes in Aqueous Zinc-Ion Batteries. Advanced Materials, 2022, 34, e2200782.	11.1	85
104	Removal of sulfamethoxazole (SMX) and sulfapyridine (SPY) from aqueous solutions by biochars derived from anaerobically digested bagasse. Environmental Science and Pollution Research, 2018, 25, 25659-25667.	2.7	84
105	Lithium Induced Nano-Sized Copper with Exposed Lithiophilic Surfaces to Achieve Dense Lithium Deposition for Lithium Metal Anode. Advanced Functional Materials, 2021, 31, 2006950.	7.8	84
106	"Tai Chi" philosophy driven rigid-flexible hybrid ionogel electrolyte for high-performance lithium battery. Nano Energy, 2018, 47, 35-42.	8.2	83
107	Vitamin K as a high-performance organic anode material for rechargeable potassium ion batteries. Journal of Materials Chemistry A, 2018, 6, 12559-12564.	5.2	83
108	Curbing polysulfide shuttling by synergistic engineering layer composed of supported Sn4P3 nanodots electrocatalyst in lithium-sulfur batteries. Nano Energy, 2020, 70, 104532.	8.2	83

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109	Ionic liquid electrolyte with highly concentrated LiTFSI for lithium metal batteries. <i>Electrochimica Acta</i> , 2018, 285, 78-85.	2.6	82
110	Pre-oxidizing the precursors of Nickel-rich cathode materials to regulate their Li ⁺ /Ni ²⁺ cation ordering towards cyclability improvements. <i>Journal of Power Sources</i> , 2018, 396, 734-741.	4.0	82
111	Toward Rapid-Charging Sodium-Ion Batteries using Hybrid-Phase Molybdenum Sulfide Selenide-Based Anodes. <i>Advanced Materials</i> , 2020, 32, e2003534.	11.1	82
112	Synergetic Anion Vacancies and Dense Heterointerfaces into Bimetal Chalcogenide Nanosheet Arrays for Boosting Electrocatalysis Sulfur Conversion. <i>Advanced Materials</i> , 2022, 34, e2109552.	11.1	81
113	Engineering Catalytic CoSe-ZnSe Heterojunctions Anchored on Graphene Aerogels for Bidirectional Sulfur Conversion Reactions. <i>Advanced Science</i> , 2022, 9, e2103456.	5.6	79
114	Progress in electrolyte and interface of hard carbon and graphite anode for sodium-ion battery. , 2022, 4, 458-479.		77
115	Graphene-wrapped sulfur/metal organic framework-derived microporous carbon composite for lithium sulfur batteries. <i>APL Materials</i> , 2014, 2, .	2.2	76
116	Polypyrrole-Modified Prussian Blue Cathode Material for Potassium Ion Batteries via In Situ Polymerization Coating. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22339-22345.	4.0	75
117	Butylene sulfite as a film-forming additive to propylene carbonate-based electrolytes for lithium ion batteries. <i>Journal of Power Sources</i> , 2007, 172, 395-403.	4.0	74
118	Enhanced Air Stability and High Li-Ion Conductivity of Li _{6.988} P _{2.994} Nb _{0.2} S _{10.934} O _{0.6} Glass-Ceramic Electrolyte for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21548-21558.	4.0	74
119	Cobalt Selenide Hollow Polyhedron Encapsulated in Graphene for High-Performance Lithium/Sodium Storage. <i>Small</i> , 2021, 17, e2102893.	5.2	72
120	Light-weight functional layer on a separator as a polysulfide immobilizer to enhance cycling stability for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17033-17041.	5.2	70
121	Electrode materials derived from plastic wastes and other industrial wastes for supercapacitors. <i>Chinese Chemical Letters</i> , 2020, 31, 1474-1489.	4.8	68
122	Recovery and Reuse of Anode Graphite from Spent Lithium-Ion Batteries via Citric Acid Leaching. <i>ACS Applied Energy Materials</i> , 2021, 4, 6261-6268.	2.5	68
123	Coralline Glassy Lithium Phosphate-Coated LiFePO ₄ Cathodes with Improved Power Capability for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6013-6021.	1.5	66
124	Conductivity and Pseudocapacitance Optimization of Bimetallic Antimony-Indium Sulfide Anodes for Sodium-Ion Batteries with Favorable Kinetics. <i>Advanced Science</i> , 2018, 5, 1800613.	5.6	65
125	An interfacial framework for breaking through the Li-ion transport barrier of Li-rich layered cathode materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24292-24298.	5.2	64
126	Gluing Carbon Black and Sulfur at Nanoscale: A Polydopamine-Based "Nano-Binder" for Double-Shelled Sulfur Cathodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601591.	10.2	64

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127	Self-Regulative Nanogelator Solid Electrolyte: A New Option to Improve the Safety of Lithium Battery. <i>Advanced Science</i> , 2016, 3, 1500306.	5.6	63
128	Dynamic Intercalation-Conversion Site Supported Ultrathin 2D Mesoporous SnO ₂ /SnSe ₂ Hybrid as Bifunctional Polysulfide Immobilizer and Lithium Regulator for Lithium-Sulfur Chemistry. <i>ACS Nano</i> , 2022, 16, 10783-10797.	7.3	63
129	The Positive Roles of Integrated Layered-Spinel Structures Combined with Nanocoating in Low-Cost Li-Rich Cathode Li[Li _{0.2} Fe _{0.1} Ni _{0.15} Mn _{0.55}]O ₂ for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21711-21720.	4.0	62
130	Extrinsic Movable Ions in MAPbI ₃ Modulate Energy Band Alignment in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1701981.	10.2	62
131	<i>In situ</i> formation of a LiF and Li-Al alloy anode protected layer on a Li metal anode with enhanced cycle life. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1247-1253.	5.2	61
132	Ultrathin single-crystalline TiO ₂ nanosheets anchored on graphene to be hybrid network for high-rate and long cycle-life sodium battery electrode application. <i>Journal of Power Sources</i> , 2017, 342, 405-413.	4.0	60
133	A Soft Lithiophilic Graphene Aerogel for Stable Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, 2002013.	7.8	60
134	A 3D conductive carbon interlayer with ultrahigh adsorption capability for lithium-sulfur batteries. <i>Applied Surface Science</i> , 2018, 440, 770-777.	3.1	59
135	Leaching Mechanisms of Recycling Valuable Metals from Spent Lithium-Ion Batteries by a Malonic Acid-Based Leaching System. <i>ACS Applied Energy Materials</i> , 2020, 3, 8532-8542.	2.5	59
136	Materials and structure engineering by magnetron sputtering for advanced lithium batteries. <i>Energy Storage Materials</i> , 2021, 39, 203-224.	9.5	59
137	Sulfur cathode based on layered carbon matrix for high-performance Li-S batteries. <i>Nano Energy</i> , 2015, 12, 742-749.	8.2	57
138	Sodium titanium hexacyanoferrate as an environmentally friendly and low-cost cathode material for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016, 302, 7-12.	4.0	56
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147	Microorganism-moulded pomegranate-like $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ nanocomposite for advanced sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9982-9990.	5.2	50
148	A modularly-assembled interlayer to entrap polysulfides and protect lithium metal anode for high areal capacity lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2017, 9, 126-133.	9.5	50
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