Zhen-Guo Wu

List of Publications by Citations

157 papers	3,643 citations	34 h-index	52 g-index
164 ext. papers	5,042 ext. citations	8 avg, IF	5.78 L-index

#	Paper	IF	Citations
157	Improving cycling performance and rate capability of Ni-rich LiNi0.8Co0.1Mn0.1O2 cathode materials by Li4Ti5O12 coating. *Electrochimica Acta*, **2018**, 268, 358-365	6.7	135
156	Polyanion and cation co-doping stabilized Ni-rich NiCoAl material as cathode with enhanced electrochemical performance for Li-ion battery. *Nano Energy*, **2019**, 63, 103818	17.1	123
155	Construction of homogeneously Al3+ doped Ni rich Ni-Co-Mn cathode with high stable cycling performance and storage stability via scalable continuous precipitation. *Electrochimica Acta*, **2018**, 291, 84-94	6.7	106
154	Highly Stabilized Ni-Rich Cathode Material with Mo Induced Epitaxially Grown Nanostructured Hybrid Surface for High-Performance Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 16629-16638	9.5	101
153	Hierarchical MnO Hollow Microspheres as Anode Material of Lithium Ion Battery and Its Conversion Reaction Mechanism Investigated by XANES. *ACS Applied Materials & Interfaces*, **2015**, 7, 8488-94	9.5	100
152	Layered/spinel heterostructured Li-rich materials synthesized by a one-step solvothermal strategy with enhanced electrochemical performance for Li-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 257-263	13	97
151	Subunits controlled synthesis of Fe2O3 multi-shelled coreshell microspheres and their effects on lithium/sodium ion battery performances. *Journal of Materials Chemistry A*, **2015**, 3, 10092-10099	13	82
150	Constructing a Protective Pillaring Layer by Incorporating Gradient Mn to Stabilize the Surface/Interfacial Structure of LiNiCoAlO Cathode. *ACS Applied Materials & Interfaces*, **2018**, 10, 27821-27830	9.5	80
149	Construction of 3D pomegranate-like Na3V2(PO4)3/conducting carbon composites for high-power sodium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 9833-9841	13	77
148	FeP nanorod arrays on carbon cloth: a high-performance anode for sodium-ion batteries. *Chemical Communications*, **2018**, 54, 9341-9344	5.8	76
147	Design and Synthesis of Layered NaTiO and Tunnel NaTiO Hybrid Structures with Enhanced Electrochemical Behavior for Sodium-Ion Batteries. *Advanced Science*, **2018**, 5, 1800519	13.6	71
146	Recent advances in electrospun one-dimensional carbon nanofiber structures/heterostructures as anode materials for sodium ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 11493-11510	13	69
145	Synergy of doping and coating induced heterogeneous structure and concentration gradient in Ni-rich cathode for enhanced electrochemical performance. *Journal of Power Sources*, **2019**, 423, 144-151	8.9	68
144	Cu Dual-Doped Layer-Tunnel Hybrid NaMnCu O as a Cathode of Sodium-Ion Battery with Enhanced Structure Stability, Electrochemical Property, and Air Stability. *ACS Applied Materials & Interfaces*, **2018**, 10, 10147-10156	9.5	66
143	Layered/Spinel Heterostructured and Hierarchical Micro/Nanostructured Li-Rich Cathode Materials with Enhanced Electrochemical Properties for Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 21065-21070	9.5	65
142	Suppressing the voltage-fading of layered lithium-rich cathode materials via an aqueous binder for Li-ion batteries. *Chemical Communications*, **2016**, 52, 4683-6	5.8	64
141	Layer-Based Heterostructured Cathodes for Lithium-Ion and Sodium-Ion Batteries. *Advanced Functional Materials*, **2019**, 29, 1808522	15.6	61

140	Rational design of carbon materials as anodes for potassium-ion batteries. *Energy Storage Materials* , **2021**, 34, 483-507	19.4	59
139	Synthesis of FeS@C-N hierarchical porous microspheres for the applications in lithium/sodium ion batteries. *Journal of Alloys and Compounds*, **2016**, 688, 790-797	5.7	57
138	Organic Cross-Linker Enabling a 3D Porous Skeleton‐Supported Na3V2(PO4)3/Carbon Composite for High Power Sodium-Ion Battery Cathode. *Small Methods*, **2019**, 3, 1800169	12.8	57
137	A comparative study of crystalline and amorphous Li0.5La0.5TiO3 as surface coating layers to enhance the electrochemical performance of LiNi0.815Co0.15Al0.035O2 cathode. *Journal of Alloys and Compounds*, **2018**, 740, 428-435	5.7	55
136	Effect of niobium doping on the structure and electrochemical performance of LiNi 0.5 Co 0.2 Mn 0.3 O 2 cathode materials for lithium ion batteries. *Ceramics International*, **2017**, 43, 3866-3872	5.1	54
135	Si/Ge core‐shell nanoarrays as the anode material for 3D lithium ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 14344	13	54
134	Deciphering an Abnormal Layered-Tunnel Heterostructure Induced by Chemical Substitution for the Sodium Oxide Cathode. *Angewandte Chemie - International Edition*, **2020**, 59, 1491-1495	16.4	52
133	Mn-Based Cathode with Synergetic Layered-Tunnel Hybrid Structures and Their Enhanced Electrochemical Performance in Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 21267-21275	9.5	48
132	P2-type Na 0.67 Mn 0.72 Ni 0.14 Co 0.14 O 2 with K + doping as new high rate performance cathode material for sodium-ion batteries. *Electrochimica Acta*, **2016**, 216, 51-57	6.7	48
131	Insight into Preparation of Fe-Doped NaV(PO)@C from Aspects of Particle Morphology Design, Crystal Structure Modulation, and Carbon Graphitization Regulation. *ACS Applied Materials & Interfaces*, **2019**, 11, 12421-12430	9.5	46
130	Shape-controlled synthesis of hierarchically layered lithium transition-metal oxide cathode materials by shear exfoliation in continuous stirred-tank reactors. *Journal of Materials Chemistry A*, **2017**, 5, 25391-25400	13	46
129	Interfacial Regulation of Ni-Rich Cathode Materials with an Ion-Conductive and Pillaring Layer by Infusing Gradient Boron for Improved Cycle Stability. *ACS Applied Materials & Interfaces*, **2020**, 12, 10240-10251	9.5	45
128	Cauliflower-like MnO@C/N composites with multiscale, expanded hierarchical ordered structures as electrode materials for Lithium- and Sodium-ion batteries. *Electrochimica Acta*, **2017**, 246, 931-940	6.7	41
127	Promoting the electrochemical performance of LiNi0.8Co0.1Mn0.1O2 cathode via LaAlO3 coating. *Journal of Alloys and Compounds*, **2018**, 766, 546-555	5.7	41
126	Core‐Shell MOF@COF Motif Hybridization: Selectively Functionalized Precursors for Titanium Dioxide Nanoparticle-Embedded Nitrogen-Rich Carbon Architectures with Superior Capacitive Deionization Performance. *Chemistry of Materials*, **2021**, 33, 1657-1666	9.6	41
125	Dual-site lattice modification regulated cationic ordering for Ni-rich cathode towards boosted structural integrity and cycle stability. *Chemical Engineering Journal*, **2021**, 403, 126314	14.7	37
124	Hard carbon for sodium storage: mechanism and optimization strategies toward commercialization. *Energy and Environmental Science*, **2021**, 14, 2244-2262	35.4	35
123	MoC-Embedded Carambola-like N,S-Rich Carbon Framework as the Interlayer Material for High-Rate Lithium-Sulfur Batteries in a Wide Temperature Range. *ACS Applied Materials & Interfaces*, **2020**, 12, 22971-22980	9.5	34

122	Enhancing performance of Li batteries by coating separator with MnO @ yeast-derived carbon spheres. *Journal of Alloys and Compounds*, **2020**, 817, 152723	5.7	34
121	Enhanced reversible lithium storage in germanium nano-island coated 3D hexagonal bottle-like Si nanorod arrays. *Nanoscale*, **2014**, 6, 1817-22	7.7	31
120	L-Histidine-assisted template-free hydrothermal synthesis of Fe2O3 porous multi-shelled hollow spheres with enhanced lithium storage properties. *Journal of Materials Chemistry A*, **2014**, 2, 12361-12367	13	31
119	N, O co-doped chlorella-based biomass carbon modified separator for lithium-sulfur battery with high capacity and long cycle performance. *Journal of Colloid and Interface Science*, **2021**, 585, 43-50	9.3	31
118	Hydrangea-Like CuS with Irreversible Amorphization Transition for High-Performance Sodium-Ion Storage. *Advanced Science*, **2020**, 7, 1903279	13.6	30
117	Dual Elements Coupling Effect Induced Modification from the Surface into the Bulk Lattice for Ni-Rich Cathodes with Suppressed Capacity and Voltage Decay. *ACS Applied Materials & Interfaces*, **2020**, 12, 8146-8156	9.5	28
116	Enhanced sodium storage property of sodium vanadium phosphate via simultaneous carbon coating and Nb5+ doping. *Chemical Engineering Journal*, **2020**, 386, 123953	14.7	28
115	Progress and perspective of metal phosphide/carbon heterostructure anodes for rechargeable ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 11879-11907	13	28
114	Insight into the Origin of Capacity Fluctuation of NaTiO Anode in Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 43596-43602	9.5	27
113	Enhanced constraint and catalysed conversion of lithium polysulfides via composite oxides from spent layered cathodes. *Journal of Materials Chemistry A*, **2019**, 7, 17867-17875	13	25
112	Platelet-like CuS impregnated with twin crystal structures for high performance sodium-ion storage. *Journal of Materials Chemistry A*, **2020**, 8, 8049-8057	13	24
111	Compared investigation of carbon-decorated Na3V2(PO4)3 with saccharides of different molecular weights as cathode of sodium ion batteries. *Electrochimica Acta*, **2018**, 286, 231-241	6.7	24
110	A review of cathode materials in lithium-sulfur batteries. *Ionics*, **2020**, 26, 5299-5318	2.7	24
109	Boosting the reactivity of Ni2+/Ni3+ redox couple via fluorine doping of high performance Na0.6Mn0.95Ni0.05O2-F cathode. *Electrochimica Acta*, **2019**, 308, 64-73	6.7	23
108	Interpreting Abnormal Charge-Discharge Plateau Migration in Cu S during Long-Term Cycling. *ACS Applied Materials & Interfaces*, **2019**, 11, 3961-3970	9.5	23
107	1st-Stokes and 2nd-Stokes dual-wavelength operation and mode-locking modulation in diode-side-pumped Nd:YAG/BaWO4 Raman laser. *Optics Express*, **2012**, 20, 17823-32	3.3	22
106	Hierarchical hollow structured lithium nickel cobalt manganese oxide microsphere synthesized by template-sacrificial route as high performance cathode for lithium ion batteries. *Journal of Alloys and Compounds*, **2019**, 777, 434-442	5.7	21
105	Employing MnO as multifunctional polysulfide reservoirs for enhanced-performance Li-S batteries. *Journal of Alloys and Compounds*, **2018**, 748, 100-110	5.7	19

104	Unexpected effects of zirconium-doping in the high performance sodium manganese-based layer-tunnel cathode. *Journal of Materials Chemistry A*, **2018**, 6, 13934-13942	13	19
103	Trapping polysulfides by chemical adsorption barrier of LixLayTiO3 for enhanced performance in lithium-sulfur batteries. *Electrochimica Acta*, **2018**, 283, 894-903	6.7	19
102	Improving the intrinsic electronic conductivity of NiMoO4 anodes by phosphorous doping for high lithium storage. *Nano Research*, **2022**, 15, 186	10	18
101	Revealing of the Activation Pathway and Cathode Electrolyte Interphase Evolution of Li-Rich 0.5LiMnO□0.5LiNiCoMnO Cathode by in Situ Electrochemical Quartz Crystal Microbalance. *ACS Applied Materials & Interfaces*, **2019**, 11, 16214-16222	9.5	17
100	Tuning the component ratio and corresponding sodium storage properties of layer-tunnel hybrid Na0.6Mn1-xNixO2 cathode by a simple cationic Ni2+ doping strategy. *Electrochimica Acta*, **2018**, 273, 63-70	6.7	17
99	Ion-Doping-Site-Variation-Induced Composite Cathode Adjustment: A Case Study of Layer-Tunnel NaMnO with Mg Doping at Na/Mn Site. *ACS Applied Materials & Interfaces*, **2019**, 11, 26938-26945	9.5	17
98	Poly(ethylene oxide)/Poly(vinylidene □oride)/Li6.4La3Zr1.4Ta0.6O12 composite electrolyte with a stable interface for high performance solid state lithium metal batteries. *Journal of Power Sources*, **2020**, 472, 228461	8.9	17
97	A Ge/Carbon Atomic-Scale Hybrid Anode Material: A Micro-Nano Gradient Porous Structure with High Cycling Stability. *Angewandte Chemie - International Edition*, **2021**, 60, 12539-12546	16.4	17
96	A further electrochemical investigation on solutions to high energetical power sources: isomerous compound 0.75Li1.2Ni0.2Mn0.6O2□0.25LiNi0.5Mn1.5O4. *RSC Advances*, **2015**, 5, 37330-37339	3.7	16
95	A fundamental understanding of the Fe/Ti doping induced structure formation process to realize controlled synthesis of layer-tunnel Na0.6MnO2 cathode. *Nano Energy*, **2020**, 70, 104539	17.1	16
94	Synthesis of a novel tunnel Na0.5K0.1MnO2 composite as a cathode for sodium ion batteries. *RSC Advances*, **2016**, 6, 54404-54409	3.7	16
93	Second-Stokes dual-wavelength operation at 1321 and 1325 nm ceramic Nd:YAG/BaWO4 Raman laser. *Optics Letters*, **2012**, 37, 4519-21	3	16
92	Stabilizing the Structure of Nickel-Rich Lithiated Oxides via Cr Doping as Cathode with Boosted High-Voltage/Temperature Cycling Performance for Li-Ion Battery. *Energy Technology*, **2020**, 8, 1900498	3.5	16
91	A novel binder-sulfonated polystyrene for the sulfur cathode of Li-S batteries. *Ionics*, **2017**, 23, 2251-2258	2.7	15
90	High Stability Induced by the TiN/Ti Interlayer in Three-Dimensional Si/Ge Nanorod Arrays as Anode in Micro Lithium Ion Battery. *ACS Applied Materials & Interfaces*, **2016**, 8, 7806-10	9.5	15
89	Insight into the Multirole of Graphene in Preparation of High Performance Na2+2xFe2□(SO4)3 Cathodes. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16105-16112	8.3	15
88	Synthesis and electrochemical performance of micro-mesoporous carbon-sulfur composite cathode for Li□ batteries. *Ionics*, **2017**, 23, 2951-2960	2.7	14
87	Synthesis of hierarchical worm-like SnO2@C aggregates and their enhanced lithium storage properties. *Journal of Alloys and Compounds*, **2015**, 620, 407-412	5.7	14

86	Deciphering an Abnormal Layered-Tunnel Heterostructure Induced by Chemical Substitution for the Sodium Oxide Cathode. *Angewandte Chemie*, **2020**, 132, 1507-1511	3.6	14
85	Review of the application of biomass-derived porous carbon in lithium-sulfur batteries. *Ionics*, **2020**, 26, 4765-4781	2.7	14
84	The direct application of spent graphite as a functional interlayer with enhanced polysulfide trapping and catalytic performance for Li–S batteries. *Green Chemistry*, **2021**, 23, 942-950	10	14
83	Synthesis of Core–Shell Structured LiFe0.5Mn0.3Co0.2PO4@C with Remarkable Electrochemical Performance as the Cathode of a Lithium-Ion Battery. *ChemElectroChem*, **2015**, 2, 896-902	4.3	13
82	Structural elucidation of the degradation mechanism of nickel-rich layered cathodes during high-voltage cycling. *Chemical Communications*, **2020**, 56, 4886-4889	5.8	13
81	A novel Mn-based P2/tunnel/O3 tri-phase composite cathode with enhanced sodium storage properties. *Chemical Communications*, **2020**, 56, 2921-2924	5.8	13
80	Alleviating the shuttle effect via bifunctional MnFe2O4/AB modified separator for high performance lithium sulfur battery. *Electrochimica Acta*, **2020**, 354, 136704	6.7	13
79	Carbon dioxide solid-phase embedding reaction of silicon-carbon nanoporous composites for lithium-ion batteries. *Chemical Engineering Journal*, **2021**, 423, 130127	14.7	13
78	A Synergistic Effect in a Composite Cathode Consisting of Spinel and Layered Structures To Increase the Electrochemical Performance for Li-Ion Batteries. *Journal of Physical Chemistry C*, **2016**, 120, 25647-25656	3.8	12
77	Simultaneous Component Ratio and Particle Size Optimization for High-Performance and High Tap Density P2/P3 Composite Cathode of Sodium-Ion Batteries. *ChemElectroChem*, **2019**, 6, 5155-5161	4.3	12
76	A MnS/FeS2 heterostructure with a high degree of lattice matching anchored into carbon skeleton for ultra-stable sodium-ion storage. *Journal of Materials Chemistry A*, **2021**, 9, 24024-24035	13	12
75	NaS Treatment and Coherent Interface Modification of the Li-Rich Cathode to Address Capacity and Voltage Decay. *ACS Applied Materials & Interfaces*, **2020**, 12, 42660-42668	9.5	12
74	Novel Bifunctional Separator with a Self-Assembled FeOOH/Coated g-CN/KB Bilayer in Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 57859-57869	9.5	12
73	Improving the Electrochemical Performance of Li1.14Ni0.18Mn0.62O2 by Modulating Structure Defects via a Molten Salt Method. *ChemElectroChem*, **2016**, 3, 98-104	4.3	12
72	A rational design of the coupling mechanism of physical adsorption and chemical charge effect for high-performance lithium-sulfur batteries.. *RSC Advances*, **2019**, 9, 12710-12717	3.7	11
71	High-performance porous spherical cathode materials based on CaCO3-template synthesis of LiNi1/3Co1/3Mn1/3O2 for lithium-ion batteries. *Ionics*, **2015**, 21, 3151-3158	2.7	11
70	Novel Interlayer on the Separator with the Cr3C2 Compound as a Robust Polysulfide Anchor for Lithium–Sulfur Batteries. *Industrial & Engineering Chemistry Research*, **2020**, 59, 7538-7545	3.9	11
69	Revisiting the Preparation Progress of Nano-Structured Si Anodes toward Industrial Application from the Perspective of Cost and Scalability. *Advanced Energy Materials*,2102181	21.8	11

68	Investigating the influence of sodium sources towards improved Na3V2 (PO4)3 cathode of sodium-ion batteries. *Journal of Alloys and Compounds*, **2020**, 815, 152430	5.7	11
67	Structure and electrochemical performance modulation of a LiNiCoMnO cathode material by anion and cation co-doping for lithium ion batteries.. *RSC Advances*, **2019**, 9, 36849-36857	3.7	11
66	Rapid in-situ fabrication of Fe3O4/Fe7S8@C composite as anode materials for lithium-ion batteries. *Materials Research Bulletin*, **2021**, 133, 111021	5.1	11
65	Nitrogen-doped sheet VO2 modified separator to enhanced long-cycle performance lithium-sulfur battery. *Journal of Power Sources*, **2021**, 501, 230040	8.9	11
64	SiO Anode: From Fundamental Mechanism toward Industrial Application. *Small*, **2021**, e2102641	11	11
63	3D hierarchical rose-like NiP@rGO assembled from interconnected nanoflakes as anode for lithium ion batteries.. *RSC Advances*, **2020**, 10, 3936-3945	3.7	10
62	Synthesis of hierarchical Sn/SnO nanosheets assembled by carbon-coated hollow nanospheres as anode materials for lithium/sodium ion batteries.. *RSC Advances*, **2020**, 10, 6035-6042	3.7	10
61	General Synthesis of MxS (M = Co, Cu) Hollow Spheres with Enhanced Sodium-Ion Storage Property in Ether-Based Electrolyte. *Industrial & Engineering Chemistry Research*, **2020**, 59, 1568-1577	3.9	10
60	Self-supported cobalt phosphate nanoarray with pseudocapacitive behavior: An efficient 3D anode material for sodium-ion batteries. *Journal of Alloys and Compounds*, **2020**, 848, 156285	5.7	10
59	A Simple Gas-Solid Treatment for Surface Modification of Li-Rich Oxides Cathodes. *Angewandte Chemie - International Edition*, **2021**, 60, 23248-23255	16.4	10
58	The influences of sodium sources on the structure evolution and electrochemical performances of layered-tunnel hybrid Na0.6MnO2 cathode. *Ceramics International*, **2017**, 43, 6303-6311	5.1	9
57	Relieving capacity decay and voltage fading of Li1.2Ni0.13Co0.13Mn0.54O2 by Mg2+ and PO43- dual doping. *Materials Research Bulletin*, **2020**, 130, 110923	5.1	9
56	A Li-substituted hydrostable layered oxide cathode material with oriented stacking nanoplate structure for high-performance sodium-ion battery. *Chemical Engineering Journal*, **2021**, 412, 128719	14.7	9
55	Understanding Performance Differences from Various Synthesis Methods: A Case Study of Spinel LiCrNiMnO Cathode Material. *ACS Applied Materials & Interfaces*, **2016**, 8, 26051-26057	9.5	9
54	Rational design and synthesis of advanced Na3□2Fe2□4(P2O7)2 cathode with multiple-dimensional N-doped carbon matrix. *Journal of Power Sources*, **2019**, 412, 350-358	8.9	9
53	The structural origin of enhanced stability of Na3.32Fe2.11Ca0.23(P2O7)2 cathode for Na-ion batteries. *Nano Energy*, **2021**, 79, 105417	17.1	9
52	Novel functional separator with self-assembled MnO layer via a simple and fast method in lithium-sulfur battery. *Journal of Colloid and Interface Science*, **2022**, 606, 666-676	9.3	9
51	Layered Li1.3Mn0.58Ni0.12Co0.11O2+□Cathode Material for Lithium-Ion Batteries with High Reversible Capacity. *ChemElectroChem*, **2016**, 3, 2027-2030	4.3	8

50	Suppressing capacity fading and voltage decay of Ni-rich cathode material by dual-ion doping for lithium-ion batteries. *Journal of Materials Science*, **2021**, 56, 2347-2359	4.3	8
49	Three-Dimensional Chestnut-Like Architecture Assembled from NaTiO(OH)□2HO@N-Doped Carbon Nanosheets with Enhanced Sodium Storage Properties. *ACS Applied Materials & Interfaces*, **2018**, 10, 43740-43748	9.5	8
48	A Unique Structure of Highly Stable Interphase and Self-Consistent Stress Distribution Radial-Gradient Porous for Silicon Anode. *Advanced Functional Materials*, **2022**, 32, 2107897	15.6	8
47	Surface modification of layer-tunnel hybrid Na0.6MnO2 cathode with open tunnel structure Na2Ti6O13. *Journal of Alloys and Compounds*, **2020**, 849, 156441	5.7	7
46	Exposing microstructure evolution of Ni-Rich Ni-Co-Al hydroxide precursor. *Chemical Engineering Science*, **2021**, 233, 116337	4.4	7
45	Directionally Tailoring Macroporous Honeycomb-Like Structured Carbon Nanofibers toward High-Capacitive Potassium Storage. *ACS Applied Materials & Interfaces*, **2021**, 13, 30693-30702	9.5	7
44	Direct conversion of ester bond-rich waste plastics into hard carbon for high-performance sodium storage. *Carbon*, **2021**, 173, 253-261	10.4	7
43	Silicon/graphite composite anode with constrained swelling and a stable solid electrolyte interphase enabled by spent graphite. *Green Chemistry*, **2021**, 23, 4531-4539	10	7
42	Recent advance in structure regulation of high-capacity Ni-rich layered oxide cathodes. *EcoMat*, **2021**, 3, e12141	9.4	7
41	Structural Reconstruction Driven by Oxygen Vacancies in Layered Ni-Rich Cathodes. *Advanced Energy Materials*,2200022	21.8	7
40	MoO@C modified separator as an interlayer for high performance lithium-sulfur batteries. *Nanotechnology*, **2021**, 32, 105206	3.4	6
39	Preparation of intergrown P/O-type biphasic layered oxides as high-performance cathodes for sodium ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 13151-13160	13	6
38	Nanowire of WP as a High-Performance Anode Material for Sodium-Ion Batteries. *Chemistry - A European Journal*, **2019**, 25, 971-975	4.8	6
37	MoO nanoparticles embedded in N-doped hydrangea-like carbon as a sulfur host for high-performance lithium-sulfur batteries.. *RSC Advances*, **2020**, 10, 20173-20183	3.7	5
36	Polyrrole-encapsulated Cu2Se nanosheets in situ grown on Cu mesh for high stability sodium-ion battery anode. *Chemical Engineering Journal*, **2022**, 433, 134477	14.7	5
35	Enabling Superior Electrochemical Performance of Lithium-Rich Li1.2Ni0.2Mn0.6O2 Cathode Materials by Surface Integration. *Industrial & Engineering Chemistry Research*, **2020**, 59, 19312-19321	3.9	5
34	Effect of Na2S treatment on the structural and electrochemical properties of Li1.2Mn0.54Ni0.13Co0.13O2 cathode material. *Journal of Solid State Electrochemistry*, **2018**, 22, 547-554	2.6	4
33	TiO2@Chlorella-Based Biomass Carbon Modified Separator for High-Rate Lithium–Sulfur Batteries. *Industrial & Engineering Chemistry Research*, **2022**, 61, 1761-1772	3.9	4

32	Research Progress on Improving the Sulfur Conversion Efficiency on the Sulfur Cathode Side in Lithium–Sulfur Batteries. *Industrial & Engineering Chemistry Research*, **2020**, 59, 20979-21000	3.9	4
31	Inhibition of the shuttle effect of lithium-sulfur batteries a tannic acid-metal one-step chemical film-forming modified separator. *Nanoscale*, **2021**, 13, 5058-5068	7.7	4
30	A compared investigation of different biogum polymer binders for silicon anode of lithium-ion batteries. *Ionics*, **2021**, 27, 1829-1836	2.7	4
29	Constructing cycle-stable Si/TiSi2 composites as anode materials for lithium ion batteries through direct utilization of low-purity Si and Ti-bearing blast furnace slag. *Journal of Alloys and Compounds*, **2021**, 876, 160125	5.7	4
28	Optimization of the electrochemical properties of LiNi0.8Co0.1Mn0.1O2 cathode material by titanium doping. *Ionics*, **2020**, 26, 3223-3230	2.7	3
27	Research progress in O3-type phase Fe/Mn/Cu-based layered cathode materials for sodium ion batteries. *Journal of Materials Chemistry A*,	13	3
26	A high strength asymmetric polymer–inorganic composite solid electrolyte for solid-state Li-ion batteries. *Electrochimica Acta*, **2022**, 404, 139701	6.7	3
25	Suppressing the Shuttling of Polysulfide by a Self-Assembled FeOOH Separator in Li–S Batteries. *Industrial & Engineering Chemistry Research*, **2020**, 59, 21066-21076	3.9	3
24	Three-Dimensional SnS2 Nanoarrays with Enhanced Lithium-Ion Storage Properties. *ChemElectroChem*, **2020**, 7, 4484-4491	4.3	3
23	Key Parameter Optimization for the Continuous Synthesis of Ni-Rich NiCoAl Cathode Materials for Lithium-Ion Batteries. *Industrial & Engineering Chemistry Research*, **2020**, 59, 22549-22558	3.9	3
22	A Ge/Carbon Atomic-Scale Hybrid Anode Material: A Micro–Nano Gradient Porous Structure with High Cycling Stability. *Angewandte Chemie*, **2021**, 133, 12647-12654	3.6	3
21	Synthesis of N-doped straw sheaf-like porous MnO@C composite as anode of advanced lithium-/sodium-ion batteries. *Ionics*, **2021**, 27, 551-559	2.7	3
20	Synthesis and lithium-ion storage performances of LiFe0.5Co0.5PO4/C nanoplatelets and nanorods. *Ionics*, **2018**, 24, 2275-2285	2.7	3
19	In Operando Investigation of the Structural Evolution during Calcination and Corresponding Enhanced Performance of Three-Dimensional Na2Ti6O13@CN Hierarchical Microflowers. *Industrial & Engineering Chemistry Research*, **2018**, 57, 17430-17436	3.9	3
18	Facile In Situ Chemical Cross-Linking Gel Polymer Electrolyte, which Confines the Shuttle Effect with High Ionic Conductivity and Li-Ion Transference Number for Quasi-Solid-State Lithium-Sulfur Battery. *ACS Applied Materials & Interfaces*, **2021**, 13, 44497-44508	9.5	3
17	Is it universal that the layered-spinel structure can improve electrochemical performance?. *Journal of Energy Chemistry*, **2022**, 64, 344-353	12	3
16	Dual-Modified Compact Layer and Superficial Ti Doping for Reinforced Structural Integrity and Thermal Stability of Ni-Rich Cathodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 54997-55006	9.5	2
15	Promoting electrochemical kinetics of Li-S batteries with C@SnS2 modified separator via synergic effect between porous carbon matrix and polar SnS2. *Electrochimica Acta*, **2021**, 390, 138829	6.7	2

14	Unveiling the abnormal capacity rising mechanism of MoS anode during long-term cycling for sodium-ion batteries.. *RSC Advances*, **2021**, 11, 28488-28495	3.7	2
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