

Hongshuai Hou

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Carbon Quantum Dots and Their Derivative 3D Porous Carbon Frameworks for Sodium-Ion Batteries with Ultralong Cycle Life. <i>Advanced Materials</i> , 2015, 27, 7861-7866.	21.0	1,055
2	Carbon Anode Materials for Advanced Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602898.	19.5	858
3	Large-Area Carbon Nanosheets Doped with Phosphorus: A High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Science</i> , 2017, 4, 1600243.	11.2	450
4	Tailoring Rod-Like FeSe_2 Coated with Nitrogen-Doped Carbon for High-Performance Sodium Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1801765.	14.9	287
5	Porous NiCo_2O_4 spheres tuned through carbon quantum dots utilised as advanced materials for an asymmetric supercapacitor. <i>Journal of Materials Chemistry A</i> , 2015, 3, 866-877.	10.3	282
6	Fundamental and solutions of microcrack in Ni-rich layered oxide cathode materials of lithium-ion batteries. <i>Nano Energy</i> , 2021, 83, 105854.	16.0	264
7	Graphene-Rich Wrapped Petal-Like Rutile TiO_2 tuned by Carbon Dots for High-Performance Sodium Storage. <i>Advanced Materials</i> , 2016, 28, 9391-9399.	21.0	262
8	H^+ -Insertion Boosted MnO_2 for an Aqueous Zn-Ion Battery. <i>Small</i> , 2020, 16, e1905842.	10.0	260
9	Carbon quantum dot micelles tailored hollow carbon anode for fast potassium and sodium storage. <i>Nano Energy</i> , 2019, 65, 104038.	16.0	250
10	Hierarchical Hollow-Microsphere Metal-Selenide@Carbon Composites with Rational Surface Engineering for Advanced Sodium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803035.	19.5	234
11	Spinel NiCo_2O_4 for use as a high-performance supercapacitor electrode material: Understanding of its electrochemical properties. <i>Journal of Power Sources</i> , 2014, 267, 888-900.	7.8	228
12	Anions induced evolution of Co_3X_4 ($\text{X} = \text{O}, \text{S}, \text{Se}$) as sodium-ion anodes: The influences of electronic structure, morphology, electrochemical property. <i>Nano Energy</i> , 2018, 48, 617-629.	16.0	227
13	Advanced Hierarchical Vesicular Carbon Co-Doped with S, P, N for High-Rate Sodium Storage. <i>Advanced Science</i> , 2018, 5, 1800241.	11.2	225
14	Ti^{3+} Self-Doped Dark Rutile TiO_2 Ultrafine Nanorods with Durable High-Rate Capability for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 6793-6801.	14.9	221
15	One-Dimensional Rod-Like Sb_2S_3 -Based Anode for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19362-19369.	8.0	218
16	Carbon dots supported upon N-doped TiO_2 nanorods applied into sodium and lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5648-5655.	10.3	215
17	The development of carbon dots: From the perspective of materials chemistry. <i>Materials Today</i> , 2021, 51, 188-207.	14.2	213
18	Sodium/Lithium Storage Behavior of Antimony Hollow Nanospheres for Rechargeable Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16189-16196.	8.0	199

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19	Binding MoSe ₂ with carbon constrained in carbonous nanosphere towards high-capacity and ultrafast Li/Na-ion storage. <i>Energy Storage Materials</i> , 2018, 12, 310-323.	18.0	196
20	Black Anatase Titania with Ultrafast Sodium-Storage Performances Stimulated by Oxygen Vacancies. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9142-9151.	8.0	193
21	Electrochemical exfoliation of graphene-like two-dimensional nanomaterials. <i>Nanoscale</i> , 2019, 11, 16-33.	5.6	184
22	Kilogram-Scale Synthesis and Functionalization of Carbon Dots for Superior Electrochemical Potassium Storage. <i>ACS Nano</i> , 2021, 15, 6872-6885.	14.6	184
23	A process for combination of recycling lithium and regenerating graphite from spent lithium-ion battery. <i>Waste Management</i> , 2019, 85, 529-537.	7.4	182
24	Garnet Solid Electrolyte for Advanced All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000648.	19.5	182
25	Layer-Tunable Phosphorene Modulated by the Cation Insertion Rate as a Sodium Storage Anode. <i>Advanced Materials</i> , 2017, 29, 1702372.	21.0	162
26	Nitrogen Doped/Carbon Tuning Yolk-Like TiO ₂ and Its Remarkable Impact on Sodium Storage Performances. <i>Advanced Energy Materials</i> , 2017, 7, 1600173.	19.5	159
27	Sb porous hollow microspheres as advanced anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2971-2977.	10.3	156
28	Pseudo-Bonding and Electric Field Harmony for Li-Rich Mn-Based Oxide Cathode. <i>Advanced Functional Materials</i> , 2020, 30, 2004302.	14.9	149
29	Controllable Chain Length for Covalent Sulfur-Carbon Materials Enabling Stable and High-Capacity Sodium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803478.	19.5	145
30	Controllable Interlayer Spacing of Sulfur-Doped Graphitic Carbon Nanosheets for Fast Sodium-Ion Batteries. <i>Small</i> , 2017, 13, 1700762.	10.0	144
31	Lithium Titanate Tailored by Cathodically Induced Graphene for an Ultrafast Lithium Ion Battery. <i>Advanced Functional Materials</i> , 2014, 24, 4349-4356.	14.9	142
32	High Ion-Conducting Solid-State Composite Electrolytes with Carbon Quantum Dot Nanofillers. <i>Advanced Science</i> , 2018, 5, 1700996.	11.2	141
33	Prelithiation/Presodiation Techniques for Advanced Electrochemical Energy Storage Systems: Concepts, Applications, and Perspectives. <i>Advanced Functional Materials</i> , 2021, 31, 2005581.	14.9	138
34	Liquid Alloy Interlayer for Aqueous Zinc-Ion Battery. <i>ACS Energy Letters</i> , 2021, 6, 675-683.	17.4	135
35	Yolk-Shell-Structured Bismuth@N-Doped Carbon Anode for Lithium-Ion Battery with High Volumetric Capacity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10829-10840.	8.0	132
36	Ultrafast Sodium Full Batteries Derived from X ₂ Fe (X = Co, Ni, Mn) Prussian Blue Analogs. <i>Advanced Materials</i> , 2019, 31, e1806092.	21.0	132

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37	Metal-Organic Framework-Derived Materials for Sodium Energy Storage. <i>Small</i> , 2018, 14, 1702648.	10.0	129
38	Recent progress on electrolyte additives for stable lithium metal anode. <i>Energy Storage Materials</i> , 2020, 32, 306-319.	18.0	126
39	An Asymmetric Ultracapacitors Utilizing \pm -Co(OH) ₂ /Co ₃ O ₄ Flakes Assisted by Electrochemically Alternating Voltage. <i>Electrochimica Acta</i> , 2014, 141, 234-240.	5.2	121
40	Antimony nanoparticles anchored on interconnected carbon nanofibers networks as advanced anode material for sodium-ion batteries. <i>Journal of Power Sources</i> , 2015, 284, 227-235.	7.8	119
41	Heteroatom-doped carbon inlaid with Sb ₂ X ₃ (X = S, Se) nanodots for high-performance potassium-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 385, 123838.	12.7	118
42	Alternating Voltage Introduced NiCo Double Hydroxide Layered Nanoflakes for an Asymmetric Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22741-22744.	8.0	117
43	Three-Dimensional Hierarchical Framework Assembled by Cobblestone-Like CoSe ₂ @C Nanospheres for Ultrastable Sodium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14716-14726.	8.0	116
44	A kinetically well-matched full-carbon sodium-ion capacitor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13540-13549.	10.3	116
45	Functionalized carbon dots for advanced batteries. <i>Energy Storage Materials</i> , 2021, 37, 8-39.	18.0	116
46	Crack-free single-crystalline Co-free Ni-rich LiNi _{0.95} Mn _{0.05} O ₂ layered cathode. <i>EScience</i> , 2022, 2, 116-124.	41.6	116
47	Interfacial challenges towards stable Li metal anode. <i>Nano Energy</i> , 2021, 79, 105507.	16.0	115
48	Cube-shaped Porous Carbon Derived from MOF-5 as Advanced Material for Sodium-Ion Batteries. <i>Electrochimica Acta</i> , 2016, 196, 413-421.	5.2	114
49	Graphitic Carbon Quantum Dots Modified Nickel Cobalt Sulfide as Cathode Materials for Alkaline Aqueous Batteries. <i>Nano-Micro Letters</i> , 2020, 12, 16.	27.0	114
50	Multidimensional Evolution of Carbon Structures Underpinned by Temperature-Induced Intermediate of Chloride for Sodium-Ion Batteries. <i>Advanced Science</i> , 2018, 5, 1800080.	11.2	112
51	Insights into Enhanced Capacitive Behavior of Carbon Cathode for Lithium Ion Capacitors: The Coupling of Pore Size and Graphitization Engineering. <i>Nano-Micro Letters</i> , 2020, 12, 121.	27.0	111
52	Hierarchical NiS ₂ Modified with Bifunctional Carbon for Enhanced Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1903454.	14.9	109
53	Electrochemically activated MnO cathodes for high performance aqueous zinc-ion battery. <i>Chemical Engineering Journal</i> , 2020, 402, 125509.	12.7	109
54	The advance of nickel-cobalt-sulfide as ultra-fast/high sodium storage materials: The influences of morphology structure, phase evolution and interface property. <i>Energy Storage Materials</i> , 2019, 16, 267-280.	18.0	107

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55	Long-aspect-ratio N-rich carbon nanotubes as anode material for sodium and lithium ion batteries. <i>Chemical Engineering Journal</i> , 2020, 395, 125054.	12.7	106
56	Comprehensive Understanding of Sodium-Ion Capacitors: Definition, Mechanisms, Configurations, Materials, Key Technologies, and Future Developments. <i>Advanced Energy Materials</i> , 2021, 11, 2003804.	19.5	105
57	Investigation of the Sodium Ion Pathway and Cathode Behavior in $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ Combined via a First Principles Calculation. <i>Langmuir</i> , 2014, 30, 12438-12446.	3.5	104
58	Nickel Chelate Derived NiS_2 Decorated with Bifunctional Carbon: An Efficient Strategy to Promote Sodium Storage Performance. <i>Advanced Functional Materials</i> , 2018, 28, 1803690.	14.9	104
59	Molybdenum Phosphide: A Conversion-type Anode for Ultralong-Life Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 7313-7322.	6.7	102
60	N-Rich carbon-coated Co_3S_4 ultrafine nanocrystals derived from ZIF-67 as an advanced anode for sodium-ion batteries. <i>Nanoscale</i> , 2018, 10, 18786-18794.	5.6	101
61	Carbon quantum dot coated Mn_3O_4 with enhanced performances for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16824-16830.	10.3	100
62	Rodlike Sb_2Se_3 Wrapped with Carbon: The Exploring of Electrochemical Properties in Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34979-34989.	8.0	100
63	Dendrite-free lithium metal anode with lithiophilic interphase from hierarchical frameworks by tuned nucleation. <i>Energy Storage Materials</i> , 2020, 27, 124-132.	18.0	98
64	Graphene quantum dots enable dendrite-free zinc ion battery. <i>Nano Energy</i> , 2022, 92, 106752.	16.0	98
65	Enhanced sodium storage behavior of carbon coated anatase TiO_2 hollow spheres. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18944-18952.	10.3	96
66	Octahedral Sb_2O_3 as high-performance anode for lithium and sodium storage. <i>Materials Chemistry and Physics</i> , 2019, 223, 46-52.	4.0	95
67	High content anion (S/Se/P) doping assisted by defect engineering with fast charge transfer kinetics for high-performance sodium ion capacitors. <i>Science Bulletin</i> , 2021, 66, 1858-1868.	9.0	94
68	Composition Engineering Boosts Voltage Windows for Advanced Sodium-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 10787-10797.	14.6	90
69	High-Yield Carbon Dots Interlayer for Ultra-Stable Zinc Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	90
70	An electrochemical exploration of hollow NiCo_2O_4 submicrospheres and its capacitive performances. <i>Journal of Power Sources</i> , 2015, 287, 307-315.	7.8	89
71	Anatase inverse opal $\text{TiO}_2\text{-x@N-doped C}$ induced the dominant pseudocapacitive effect for durable and fast lithium/sodium storage. <i>Electrochimica Acta</i> , 2019, 299, 540-548.	5.2	87
72	Ultra-stable Sb confined into N-doped carbon fibers anodes for high-performance potassium-ion batteries. <i>Science Bulletin</i> , 2020, 65, 1003-1012.	9.0	87

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73	An Electrochemical Study of Sb/Acetylene Black Composite as Anode for Sodium-Ion Batteries. <i>Electrochimica Acta</i> , 2014, 146, 328-334.	5.2	84
74	N-rich carbon coated CoSnO_3 derived from <i>in situ</i> construction of a Co-MOF with enhanced sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4839-4847.	10.3	84
75	Bi Dots Confined by Functional Carbon as High-Performance Anode for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2000756.	14.9	84
76	Honeycomb hard carbon derived from carbon quantum dots as anode material for K-ion batteries. <i>Materials Chemistry and Physics</i> , 2019, 229, 303-309.	4.0	82
77	Preparation of S/N-codoped carbon nanosheets with tunable interlayer distance for high-rate sodium-ion batteries. <i>Green Chemistry</i> , 2017, 19, 4622-4632.	9.0	81
78	Stabilizing Intermediate Phases via Efficient Entrapment Effects of Layered $\text{VS}_4/\text{SnS}@C$ Heterostructure for Ultralong Lifespan Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2103802.	14.9	81
79	Challenges and Strategies towards Single-Crystalline Ni-Rich Layered Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	81
80	Pinecone-like hierarchical anatase TiO_2 bonded with carbon enabling ultrahigh cycling rates for sodium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12591-12601.	10.3	78
81	Demystifying the Lattice Oxygen Redox in Layered Oxide Cathode Materials of Lithium-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 6061-6104.	14.6	77
82	Size-Tunable Olive-Like Anatase TiO_2 Coated with Carbon as Superior Anode for Sodium-Ion Batteries. <i>Small</i> , 2016, 12, 5554-5563.	10.0	76
83	Confined N-CoSe ₂ active sites boost bifunctional oxygen electrocatalysis for rechargeable Zn-air batteries. <i>Nano Energy</i> , 2022, 91, 106675.	16.0	76
84	Advanced Pre-Diagnosis Method of Biomass Intermediates Toward High Energy Dual-Carbon Potassium-Ion Capacitor. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	76
85	Ultrafine nickel oxide quantum dots embedded with few-layer exfoliative graphene for an asymmetric supercapacitor: Enhanced capacitances by alternating voltage. <i>Journal of Power Sources</i> , 2015, 298, 241-248.	7.8	75
86	Nickel nanoparticles supported on nitrogen-doped honeycomb-like carbon frameworks for effective methanol oxidation. <i>RSC Advances</i> , 2017, 7, 14152-14158.	3.6	75
87	High-Throughput Production of Cheap Mineral-Based Heterostructures for High Power Sodium Ion Capacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	75
88	Engineering 1D chain-like architecture with conducting polymer towards ultra-fast and high-capacity energy storage by reinforced pseudo-capacitance. <i>Nano Energy</i> , 2018, 54, 26-38.	16.0	74
89	3D network-like mesoporous NiCo_2O_4 nanostructures as advanced electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2014, 149, 144-151.	5.2	72
90	The electrochemical exploration of double carbon-wrapped $\text{Na}_3\text{V}_2(\text{PO}_4)_3$: Towards long-time cycling and superior rate sodium-ion battery cathode. <i>Journal of Power Sources</i> , 2017, 366, 249-258.	7.8	72

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91	Bi ³⁺ -Based Electrode Materials for Alkali Metal-Ion Batteries. <i>Small</i> , 2020, 16, e2004022.	10.0	71
92	An electrochemical investigation of rutile TiO ₂ microspheres anchored by nanoneedle clusters for sodium storage. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15764-15770.	2.8	70
93	High-voltage NASICON Sodium Ion Batteries: Merits of Fluorine Insertion. <i>Electrochimica Acta</i> , 2014, 146, 142-150.	5.2	69
94	3D hollow porous carbon microspheres derived from Mn-MOFs and their electrochemical behavior for sodium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23550-23558.	10.3	69
95	Surface-Driven Energy Storage Behavior of Dual-Heteroatoms Functionalized Carbon Material. <i>Advanced Functional Materials</i> , 2019, 29, 1900941.	14.9	68
96	Enabling the sustainable recycling of LiFePO ₄ from spent lithium-ion batteries. <i>Green Chemistry</i> , 2022, 24, 2506-2515.	9.0	68
97	Atomical Reconstruction and Cationic Reordering for Nickel-Rich Layered Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	67
98	Electrochemically Exfoliated Phosphorene-Graphene Hybrid for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800328.	8.6	66
99	Ultra-Low-Dose Pre-Metallation Strategy Served for Commercial Metal-Ion Capacitors. <i>Nano-Micro Letters</i> , 2022, 14, 53.	27.0	65
100	Quinone/ester-based oxygen functional group-incorporated full carbon Li-ion capacitor for enhanced performance. <i>Nanoscale</i> , 2020, 12, 3677-3685.	5.6	64
101	Mechanistic investigation of ion migration in Na ₃ V ₂ (PO ₄) ₂ F ₃ hybrid-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 159-165.	2.8	62
102	Dianion Induced Electron Delocalization of Trifunctional Electrocatalysts for Rechargeable Zn-Air Batteries and Self-Powered Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	62
103	Enhanced stability of sodium storage exhibited by carbon coated Sb ₂ S ₃ hollow spheres. <i>Materials Chemistry and Physics</i> , 2018, 203, 185-192.	4.0	61
104	Cathodically induced antimony for rechargeable Li-ion and Na-ion batteries: The influences of hexagonal and amorphous phase. <i>Journal of Power Sources</i> , 2015, 282, 358-367.	7.8	60
105	Voltage-Induced High-Efficient In Situ Presodiation Strategy for Sodium Ion Capacitors. <i>Small Methods</i> , 2020, 4, 1900763.	8.6	60
106	Olivine LiMn _x Fe _{1-x} PO ₄ cathode materials for lithium ion batteries: restricted factors of rate performances. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14214-14232.	10.3	60
107	Carbon materials for high-performance lithium-ion capacitor. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 31-39.	4.8	59
108	Sulfur-doped carbon employing biomass-activated carbon as a carrier with enhanced sodium storage behavior. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24353-24360.	10.3	58

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109	The bond evolution mechanism of covalent sulfurized carbon during electrochemical sodium storage process. <i>Science China Materials</i> , 2019, 62, 1127-1138.	6.3	58
110	High Sulfur-Doped Hard Carbon with Advanced Potassium Storage Capacity via a Molten Salt Method. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30431-30437.	8.0	58
111	Cypress leaf-like Sb as anode material for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17549-17552.	10.3	57
112	3D Porous Carbon Encapsulated SnO ₂ Nanocomposite for Ultrastable Sodium Ion Batteries. <i>Electrochimica Acta</i> , 2016, 214, 156-164.	5.2	57
113	Advanced Battery-type Anode Materials for High-Performance Sodium-Ion Capacitors. <i>Small Methods</i> , 2020, 4, 2000401.	8.6	56
114	Sodium titanate cuboid as advanced anode material for sodium ion batteries. <i>Journal of Power Sources</i> , 2016, 305, 200-208.	7.8	55
115	Antimony Anchored with Nitrogen-Doping Porous Carbon as a High-Performance Anode Material for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26118-26125.	8.0	55
116	Carbon Dots Evoked Li Ion Dynamics for Solid State Battery. <i>Small</i> , 2021, 17, e2102978.	10.0	54
117	Electrochemical Investigation of Natural Ore Molybdenite (MoS ₂) as a First-Hand Anode for Lithium Storages. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6378-6389.	8.0	52
118	Molecularly Compensated Pre-Metallation Strategy for Metal-Ion Batteries and Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17070-17079.	13.8	52
119	Element substitution of a spinel LiMn ₂ O ₄ cathode. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21532-21550.	10.3	51
120	NiSb alloy hollow nanospheres as anode materials for rechargeable lithium ion batteries. <i>Chemical Communications</i> , 2014, 50, 8201-8203.	4.1	49
121	Interfacially Redistributed charge for robust lithium metal anode. <i>Nano Energy</i> , 2021, 87, 106212.	16.0	48
122	Recent advances of composite electrolytes for solid-state Li batteries. <i>Journal of Energy Chemistry</i> , 2022, 67, 524-548.	12.9	47
123	Size-Tunable Single-Crystalline Anatase TiO ₂ Cubes as Anode Materials for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3923-3930.	3.1	46
124	Mo-doped Gray Anatase TiO ₂ : Lattice Expansion for Enhanced Sodium Storage. <i>Electrochimica Acta</i> , 2016, 219, 227-234.	5.2	46
125	Reversible OP4 phase in P ₂ -Na ₂ /3Ni ₁ /3Mn ₂ /3O ₂ sodium ion cathode. <i>Journal of Power Sources</i> , 2021, 508, 230324.	7.8	46
126	Rose-like N-doped Porous Carbon for Advanced Sodium Storage. <i>Electrochimica Acta</i> , 2017, 240, 24-30.	5.2	45

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127	Solid Solution Metal Chalcogenides for Sodium-Ion Batteries: The Recent Advances as Anodes. <i>Small</i> , 2021, 17, e2101058.	10.0	45
128	Exploration and Size Engineering from Natural Chalcopyrite to High-Performance Electrode Materials for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6154-6165.	8.0	43
129	N,S-codoped carbon dots as deposition regulating electrolyte additive for stable lithium metal anode. <i>Energy Storage Materials</i> , 2021, 42, 679-686.	18.0	43
130	Dual Functions of Potassium Antimony(III) Tartrate in Tuning Antimony/Carbon Composites for Long-Life Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705744.	14.9	42
131	Natural Stibnite for Lithium-/Sodium-Ion Batteries: Carbon Dots Evoked High Initial Coulombic Efficiency. <i>Nano-Micro Letters</i> , 2022, 14, .	27.0	42
132	Chalcopyrite-Derived Na_xMO_2 (M = Cu, Fe, Mn) Cathode: Tuning Impurities for Self-Doping. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2432-2444.	8.0	41
133	Hollow-sphere ZnSe wrapped around carbon particles as a cycle-stable and high-rate anode material for reversible Li-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 6693-6699.	2.8	40
134	Revealing the activation effects of high valence cobalt in CoMoO_4 towards highly reversible conversion. <i>Nano Energy</i> , 2020, 68, 104333.	16.0	40
135	Copper-substituted Na_xMO_2 (M = Fe, Mn) cathodes for sodium ion batteries: Enhanced cycling stability through suppression of Mn(III) formation. <i>Chemical Engineering Journal</i> , 2021, 406, 126830.	12.7	39
136	Boosting the ionic conductivity of PEO electrolytes by waste eggshell-derived fillers for high-performance solid lithium/sodium batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1315-1323.	5.9	38
137	Natural stibnite ore (Sb_2S_3) embedded in sulfur-doped carbon sheets: enhanced electrochemical properties as anode for sodium ions storage. <i>RSC Advances</i> , 2019, 9, 15210-15216.	3.6	37
138	Electrochemically Alternating Voltage Induced Mn_3O_4 /Graphite Powder Composite with Enhanced Electrochemical Performances for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015, 155, 157-163.	5.2	36
139	Chemical Bonding and Physical Trapping Se Electrode for Long-Life Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1809014.	14.9	36
140	Structure and Interface Modification of Carbon Dots for Electrochemical Energy Application. <i>Small</i> , 2021, 17, e2102091.	10.0	36
141	Hierarchical bismuth composite for fast lithium storage: Carbon dots tuned interfacial interaction. <i>Energy Storage Materials</i> , 2022, 44, 145-155.	18.0	35
142	Nitrogen-doped Carbon Coated $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ with Superior Sodium Storage Capability. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 459-466.	2.6	34
143	Chemical-Mechanical Effects in Ni-Rich Cathode Materials. <i>Chemistry of Materials</i> , 2022, 34, 1509-1523.	6.7	34
144	Single Particle Electrochemistry of Collision. <i>Small</i> , 2019, 15, e1804908.	10.0	33

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145	Revealing dual capacitive mechanism of carbon cathode toward ultrafast quasi-solid-state lithium ion capacitors. <i>Journal of Energy Chemistry</i> , 2021, 60, 209-221.	12.9	33
146	Molecular-Level CuS@S Hybrid Nanosheets Constructed by Mineral Chemistry for Energy Storage Systems. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43669-43681.	8.0	32
147	Functional carbon materials processed by NH ₃ plasma for advanced full-carbon sodium-ion capacitors. <i>Chemical Engineering Journal</i> , 2021, 420, 129647.	12.7	32
148	Cationic-potential tuned biphasic layered cathodes for stable desodiation/sodiation. <i>Science Bulletin</i> , 2022, 67, 1589-1602.	9.0	31
149	Fe ₂ O ₃ embedded in the nitrogen-doped carbon matrix with strong C-O-Fe oxygen-bridge bonds for enhanced sodium storages. <i>Materials Chemistry and Physics</i> , 2018, 216, 58-63.	4.0	29
150	Highly stable zinc metal anode enabled by oxygen functional groups for advanced Zn-ion supercapacitors. <i>Chemical Communications</i> , 2021, 57, 528-531.	4.1	29
151	A high-rate capability LiFePO ₄ /C cathode achieved by the modulation of the band structures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24686-24694.	10.3	28
152	Facile preparation of Sn hollow nanospheres anodes for lithium-ion batteries by galvanic replacement. <i>Materials Letters</i> , 2014, 128, 408-411.	2.6	27
153	Evaluating the influences of the sulfur content in precursors on the structure and sodium storage performances of carbon materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11488-11495.	10.3	27
154	General Synthesis of Heteroatom-Doped Hierarchical Carbon toward Excellent Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , 2019, 2, 712-722.	4.7	27
155	Defect Rich Hierarchical Porous Carbon for High Power Supercapacitors. <i>Frontiers in Chemistry</i> , 2020, 8, 43.	3.6	27
156	Advanced Carbon Materials for Sodium-Ion Capacitors. <i>Batteries and Supercaps</i> , 2021, 4, 538-553.	4.7	27
157	Electrochemically alternating voltage tuned Co ₂ MnO ₄ /Co hydroxide chloride for an asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2015, 165, 198-205.	5.2	26
158	Bi ₂ MoO ₆ Microsphere with Double-Polyaniline Layers toward Ultrastable Lithium Energy Storage by Reinforced Structure. <i>Inorganic Chemistry</i> , 2019, 58, 6410-6421.	4.0	26
159	Rod-Like Sb ₂ MoO ₆ : Structure Evolution and Sodium Storage for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800533.	8.6	26
160	Engineering metal-sulfides with cations-tunable metal-oxides electrocatalysts with promoted catalytic conversion for robust ions-storage capability. <i>Energy Storage Materials</i> , 2022, 45, 1183-1200.	18.0	26
161	Robust artificial interlayer for columnar sodium metal anode. <i>Nano Energy</i> , 2022, 97, 107203.	16.0	26
162	Manganese-based layered oxide cathodes for sodium ion batteries. <i>Nano Select</i> , 2020, 1, 200-225.	3.7	25

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163	Nanosizing Pd on 3D porous carbon frameworks as effective catalysts for selective phenylacetylene hydrogenation. <i>RSC Advances</i> , 2017, 7, 15309-15314.	3.6	24
164	Electrochemically Modulated $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ Cathodes for Lithium-ion Batteries. <i>Small Methods</i> , 2019, 3, 1900065.	8.6	24
165	High-rate sodium ion anodes assisted by N-doped carbon sheets. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1130-1136.	4.9	23
166	Alternating voltage induced ordered anatase TiO_2 nanopores: An electrochemical investigation of sodium storage. <i>Journal of Power Sources</i> , 2016, 336, 196-202.	7.8	22
167	Activated Flake Graphite Coated with Pyrolysis Carbon as Promising Anode for Lithium Storage. <i>Electrochimica Acta</i> , 2016, 196, 405-412.	5.2	22
168	Alternating Voltage Introduced [001]-Oriented MoO_3 Microrods for High-Performance Sodium-ion Batteries. <i>Electrochimica Acta</i> , 2017, 245, 949-956.	5.2	22
169	Electrochemically intercalated intermediate induced exfoliation of few-layer MoS_2 from molybdenite for long-life sodium storage. <i>Science China Materials</i> , 2021, 64, 115-127.	6.3	22
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171	Hollow carbon microbox from acetylacetone as anode material for sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 51, 293-302.	12.9	20
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178	TiO_2 nanosheets anchoring on carbon nanotubes for fast sodium storage. <i>Electrochimica Acta</i> , 2018, 283, 1514-1524.	5.2	18
179	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ quantum dot decorated carbon frameworks from carbon dots for fast lithium ion storage. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1761-1767.	5.9	18
180	Trace tea polyphenols enabling reversible dendrite-free zinc anode. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 450-459.	9.4	18

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