

Sodium-based batteries: from critical materials to batte

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Mechanochemical synthesis of fast sodium ion conductor Na ₁₁ Sn ₂ PSe ₁₂ enables first sodium-selenium all-solid-state battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20790-20798.	5.2	29
2	Metal-free energy storage systems: combining batteries with capacitors based on a methylene blue functionalized graphene cathode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19668-19675.	5.2	138
3	Flexible Conductive Anodes Based on 3D Hierarchical Sn/NS-CNFs@rGO Network for Sodium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 63.	14.4	59
4	Engineering Unique Ball-In-Ball Structured (Ni _{0.33} Co _{0.67}) ₉ S ₈ @C Nanospheres for Advanced Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27805-27812.	4.0	22
5	Synthesis, characterizations, and utilization of oxygen-deficient metal oxides for lithium/sodium-ion batteries and supercapacitors. <i>Coordination Chemistry Reviews</i> , 2019, 397, 138-167.	9.5	164
6	Antimony- and Bismuth-Based Chalcogenides for Sodium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2925-2937.	1.7	46
7	Fe ₁ -S/reduced graphene oxide composite as anode material for aqueous rechargeable Ni/Fe batteries. <i>Journal of Alloys and Compounds</i> , 2019, 800, 99-106.	2.8	13
8	Electrospun VSe _{1.5} /CNF composite with excellent performance for alkali metal ion batteries. <i>Nanoscale</i> , 2019, 11, 16308-16316.	2.8	50
9	Design of meso/macro porous 2D Mn-vanadate as potential novel anode materials for sodium-ion storage. <i>Journal of Energy Storage</i> , 2019, 26, 100915.	3.9	13
10	Rambutan peel based hard carbons as anode materials for sodium ion battery. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 953-960.	1.0	18
11	NASICON-Structured NaTi ₂ (PO ₄) ₃ for Sustainable Energy Storage. <i>Nano-Micro Letters</i> , 2019, 11, 44.	14.4	100
12	Sonochemical assisted fabrication of 3D hierarchical porous carbon for high-performance symmetric supercapacitor. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104617.	3.8	24
13	A novel Zr-MOF-based and polyaniline-coated UIO-67@Se@PANI composite cathode for lithium-selenium batteries. <i>Dalton Transactions</i> , 2019, 48, 10191-10198.	1.6	17
14	Mesoporous Carbon-Coated Bismuth Nanorods as Anode for Potassium-Ion Batteries. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900209.	1.2	47
15	Galvanic Replacement Synthesis of Highly Uniform Sb Nanotubes: Reaction Mechanism and Enhanced Sodium Storage Performance. <i>ACS Nano</i> , 2019, 13, 5885-5892.	7.3	73
16	ReS ₂ -Based electrode materials for alkali-metal ion batteries. <i>CrystEngComm</i> , 2019, 21, 3755-3769.	1.3	58
17	Heterogeneous dual-wrapped architecture of hollow SiO _x /MoS ₂ -CNTs nanohybrids as anode materials for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 50-58.	1.9	13
18	A S/N-doped high-capacity mesoporous carbon anode for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11976-11984.	5.2	78

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19	A novel Mo-based oxide $\text{I}^2\text{-SnMoO}_4$ as anode for lithium ion battery. <i>Chinese Chemical Letters</i> , 2020, 31, 210-216.	4.8	17
20	Superior sodium-storage behavior of flexible anatase TiO_2 promoted by oxygen vacancies. <i>Energy Storage Materials</i> , 2020, 25, 903-911.	9.5	131
21	P2-type $\text{Na}_{0.8}(\text{Li}_{0.33}\text{Mn}_{0.67-x}\text{Ti}_x)\text{O}_2$ doped by Ti as cathode materials for high performance sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152402.	2.8	14
22	Improving the electrochemical performance of $\text{Na}_3\text{V}_2\text{O}_2(\text{PO}_4)_2\text{F}$ cathode by using a defect-containing TiO_2 -coating for sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152270.	2.8	32
23	Porous bowl-shaped VS_2 nanosheets/graphene composite for high-rate lithium-ion storage. <i>Journal of Energy Chemistry</i> , 2020, 43, 24-32.	7.1	148
24	Investigation of sodium content on the electrochemical performance of the $\text{Na}_x(\text{Fe}_{0.35}\text{Mn}_{0.35}\text{Co}_{0.3})\text{O}_2$ ($x=0.5, 0.6, 0.7, 0.8, 0.9$) for sodium-ion batteries. <i>Ionics</i> , 2020, 26, 223-231. ^{1,2}	1.2	10
25	Deciphering an Abnormal Layered Tunnel Heterostructure Induced by Chemical Substitution for the Sodium Oxide Cathode. <i>Angewandte Chemie</i> , 2020, 132, 1507-1511.	1.6	17
26	Deciphering an Abnormal Layered Tunnel Heterostructure Induced by Chemical Substitution for the Sodium Oxide Cathode. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1491-1495.	7.2	78
27	Simple synthesis of sandwich-like SnSe_2/rGO as high initial coulombic efficiency and high stability anode for sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 46, 71-77.	7.1	75
28	Stabilizing the Structure of Nickel-Rich Lithiated Oxides via Cr Doping as Cathode with Boosted High Voltage/Temperature Cycling Performance for Li-ion Battery. <i>Energy Technology</i> , 2020, 8, 1900498.	1.8	20
29	Nanostructured metal chalcogenides confined in hollow structures for promoting energy storage. <i>Nanoscale Advances</i> , 2020, 2, 583-604.	2.2	18
30	Enabling high sodium storage performance of micron-sized Sn_4P_3 anode via diglyme-derived solid electrolyte interphase. <i>Chemical Engineering Journal</i> , 2020, 392, 123810.	6.6	18
31	Metal-Free CO_2 Batteries at the Crossroad to Practical Energy Storage and CO_2 Recycle. <i>Advanced Functional Materials</i> , 2020, 30, 1908285.	7.8	103
32	A Sodium Polysulfide Battery with Liquid/Solid Electrolyte: Improving Sulfur Utilization Using P_2S_5 as Additive and Tetramethylurea as Catholyte Solvent. <i>Energy Technology</i> , 2020, 8, 1901200.	1.8	10
33	Nanoscale Al_2O_3 coating to stabilize selenium cathode for sodium-selenium batteries. <i>Journal of Materials Research</i> , 2020, 35, 747-755.	1.2	11
34	Two-Dimensional Material-Functionalized Separators for High-Energy-Density Metal-Free Sulfur and Metal-Based Batteries. <i>ChemSusChem</i> , 2020, 13, 1366-1378.	3.6	20
35	Hard carbon derived from waste tea biomass as high-performance anode material for sodium-ion batteries. <i>Ionics</i> , 2020, 26, 5535-5542.	1.2	39
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37	Free-Standing N-Doped Carbon Nanotube Films with Tunable Defects as a High Capacity Anode for Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 37506-37514.	4.0	68
38	Citrate-mediated synthesis of highly crystalline transition metal hexacyanoferrates and their Na ion storage properties. Applied Surface Science, 2020, 531, 147336.	3.1	5
39	3D printed rGO/CNT microlattice aerogel for a dendrite-free sodium metal anode. Journal of Materials Chemistry A, 2020, 8, 19843-19854.	5.2	82
40	Novel flame retardant rigid spirocyclic biphosphate based copolymer gel electrolytes for sodium ion batteries with excellent high-temperature performance. Journal of Materials Chemistry A, 2020, 8, 22962-22968.	5.2	22
41	Vanadium sulfide based materials: synthesis, energy storage and conversion. Journal of Materials Chemistry A, 2020, 8, 20781-20802.	5.2	73
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43	P2-type Fe and Mn-based Na _{0.67} Ni _{0.15} Fe _{0.35} Mn _{0.3} Ti _{0.2} O ₂ as cathode material with high energy density and structural stability for sodium-ion batteries. Journal of Materials Science: Materials in Electronics, 2020, 31, 9423-9429.	1.1	3
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54	Flexible, stable, fast-ion-conducting composite electrolyte composed of nanostructured Na-super-ion-conductor framework and continuous Poly(ethylene oxide) for all-solid-state Na battery. Journal of Power Sources, 2020, 454, 227949.	4.0	34
55	A bilayer interface formed in high concentration electrolyte with SbF ₃ additive for long-cycle and high-rate sodium metal battery. Journal of Power Sources, 2020, 455, 227956.	4.0	65

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56	Preparation of benzoxazine-based N-doped mesoporous carbon material and its electrochemical behaviour as supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2020, 868, 114196.	1.9	16
57	Toward Green Battery Cells: Perspective on Materials and Technologies. <i>Small Methods</i> , 2020, 4, 2000039.	4.6	177
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59	Combustion synthesis of defect-rich carbon nanotubes as anodes for sodium-ion batteries. <i>Applied Surface Science</i> , 2020, 520, 146317.	3.1	34
60	Towards high-performance anodes: Design and construction of cobalt-based sulfide materials for sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 54, 680-698.	7.1	54
61	MXenes for Non-Lithium-Ion (Na, K, Ca, Mg, and Al) Batteries and Supercapacitors. <i>Advanced Energy Materials</i> , 2021, 11, 2000681.	10.2	183
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63	Research Progress and Future Perspectives on Rechargeable Na ₂ and Na ₂ Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 158-177.	7.3	25
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68	Long-life Na-rich nickel hexacyanoferrate capable of working under stringent conditions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21228-21240.	5.2	21
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72	Biomass Derived High Areal and Specific Capacity Hard Carbon Anodes for Sodium-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 1820-1830.	2.5	18
73	Novel K ⁺ -doped Na _{0.6} Mn _{0.35} Fe _{0.35} Co _{0.3} O ₂ cathode materials for sodium-ion batteries: synthesis, structures, and electrochemical properties. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 1271-1281.	1.2	6

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75	Smart fibers for energy conversion and storage. <i>Chemical Society Reviews</i> , 2021, 50, 7009-7061.	18.7	108
76	Porous structure O-rich carbon nanotubes as anode material for sodium-ion batteries. <i>Ionics</i> , 2021, 27, 667-675.	1.2	5
77	Reactivity-guided formulation of composite solid polymer electrolytes for superior sodium metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18632-18643.	5.2	24
78	CHAPTER 4. 3D Graphene-based Materials for Enhancing the Energy Density of Sodium Ion Batteries. <i>Chemistry in the Environment</i> , 2021, , 86-114.	0.2	0
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80	Exploration of materials electrochemistry in rechargeable batteries using advanced in situ/operando x-ray absorption spectroscopy. <i>Electronic Structure</i> , 2021, 3, 013001.	1.0	4
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82	Nanomaterials for adsorption and conversion of CO ₂ under gentle conditions. <i>Materials Today</i> , 2021, 50, 385-399.	8.3	21
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85	Graphite Anode for Potassium Ion Batteries: Current Status and Perspective. <i>Energy and Environmental Materials</i> , 2022, 5, 458-469.	7.3	44
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87	Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. <i>Matter</i> , 2021, 4, 1768-1800.	5.0	39
88	Nanostructured MoS ₂ , SnS ₂ , and WS ₂ -Based Anode Materials for High-Performance Sodium-Ion Batteries via Chemical Methods: A Review Article. <i>Energy Technology</i> , 2021, 9, 2100179.	1.8	9
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93	Nitrogen-doped carbon decorated $\text{TiO}_2/\text{Ti}_3\text{C}_2\text{T}$ MXene composites as anode material for high-performance sodium-ion batteries. <i>Surface and Coatings Technology</i> , 2021, 422, 127568.	2.2	22
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95	Tailored amorphous titanium oxide and carbon composites for enhanced pseudocapacitive sodium storage. <i>Journal of Energy Chemistry</i> , 2022, 65, 127-132.	7.1	7
96	Revealing the Sodium Storage Behavior of Biomass-Derived Hard Carbon by Using Pure Lignin and Cellulose as Model Precursors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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99	A review of IE -conjugated polymer-based nanocomposites for metal-ion batteries and supercapacitors. <i>Royal Society Open Science</i> , 2021, 8, 210567.	1.1	24
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101	Artificial intelligence driven in-silico discovery of novel organic lithium-ion battery cathodes. <i>Energy Storage Materials</i> , 2022, 44, 313-325.	9.5	23
102	Recent Advances in Heterostructured Carbon Materials as Anodes for Sodium-Ion Batteries. <i>Small Structures</i> , 2021, 2, .	6.9	80
103	Encapsulation of Se in dual-wall hollow carbon spheres: Physical confinement and chemisorption for superior Na^+Se and K^+Se batteries. <i>Carbon</i> , 2022, 187, 354-364.	5.4	19
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105	Unveiling the Role of Tetrabutylammonium and Cesium Bulky Cations in Enhancing Na^+O_2 Battery Performance. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	13
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107	Carbon Nanofibres Confined SnS Nanostructure with High Flexibility and Enhanced Performance for Sodium-Ion Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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114	A Fast-Charging Cathode for Na-Ion Hybrid Supercapacitor. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
115	Less is more: tiny amounts of insoluble multi-functional nanoporous additives play a big role in lithium secondary batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8047-8058.	5.2	5
116	Tessellated N-doped carbon/CoSe ₂ as trap-catalyst sulfur hosts for room-temperature sodium-sulfur batteries. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1743-1751.	3.0	6
117	Mainstream Optimization Strategies for Cathode Materials of Sodium-Ion Batteries. <i>Small Structures</i> , 2022, 3, .	6.9	84
118	High frequency impedance measurements of sodium solid electrolytes. <i>Journal of the European Ceramic Society</i> , 2022, 42, 3939-3947.	2.8	3
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120	Covalent encapsulation of sulfur in a graphene/N-doped carbon host for enhanced sodium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2022, 443, 136257.	6.6	23
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124	Adjusting morphological properties of organic electrode material for efficient Sodium-ion batteries by isomers strategy. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 637-645.	5.0	5
125	Revealing the Solid-State Electrolyte Interfacial Stability Model with Na-K Liquid Alloy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
126	Organic Small Molecules with Electrochemical-Active Phenolic Enolate Groups for Ready-to-Charge Organic Sodium-Ion Batteries. <i>Small Methods</i> , 2022, 6, .	4.6	15
127	Polypyrrole doped graphene nanocomposites as advanced positive electrodes for vanadium redox flow battery. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	1.1	0

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129	Revealing the Solid-State Electrolyte Interfacial Stability Model with Na-K Liquid Alloy. Angewandte Chemie, 2022, 134, .	1.6	3
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132	Correlation between the Cation Disorders of Fe^{3+} and Li^{+} in P3-Type $\text{Na}_{0.67}[\text{Li}_{0.1}(\text{Fe}_{0.5}\text{Mn}_{0.5})\text{O}_2]$ for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 33120-33129.	4.0	10
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134	Energy-efficient system and charge balancing topology for electric vehicle application. Sustainable Energy Technologies and Assessments, 2022, 53, 102516.	1.7	11
135	Enflurane Additive for Sodium Negative Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 36551-36556.	4.0	3
136	Composites Based on Lithium Titanate with Carbon Nanomaterials as Anodes for Lithium-Ion Batteries. Russian Journal of Electrochemistry, 2022, 58, 658-666.	0.3	1
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139	<i>In situ</i> fabrication of MXene/CuS hybrids with interfacial covalent bonding <i>via</i> Lewis acidic etching route for efficient sodium storage. Journal of Materials Chemistry A, 2022, 10, 22135-22144.	5.2	22
140	High-Throughput Data-Driven Prediction of Stable High-Performance Na-Ion Sulfide Solid Electrolytes. Advanced Functional Materials, 2022, 32, .	7.8	4
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