

# From Li<sup>+</sup> Ion Batteries toward Na<sup>+</sup> Ion Chemistries: C

Advanced Energy Materials

10, 2001310

DOI: [10.1002/aenm.202001310](https://doi.org/10.1002/aenm.202001310)

Citation Report

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A phosphite-based layered framework as a novel positive electrode material for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5045-5052.  | 5.2 | 7         |
| 2  | The rise and rise of lithium. <i>Nature Chemistry</i> , 2021, 13, 107-109.  | 6.6 | 25        |
| 3  | A g-C <sub>3</sub> N <sub>4</sub> -coated paper-based separator for sodium metal batteries. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 1373-1381.   | 1.2 | 7         |
| 4  | Preparation and electrochemical properties of ionic-liquid-modified Na <sub>3</sub> SbS <sub>4</sub> membrane composite electrolytes. <i>Journal of Materials Science</i> , 2021, 56, 10565-10574.                                  | 1.7 | 9         |
| 5  | Electrochemically Anodized V <sub>2</sub> O <sub>5</sub> as an Efficient Sodium Cathode. <i>Energy &amp; Fuels</i> , 2021, 35, 8358-8364.   | 2.5 | 8         |
| 6  | Effect of the Mn/V ratio to optimize the kinetic properties of Na <sub>3+x</sub> MnxV <sub>1-x</sub> Cr(PO <sub>4</sub> ) <sub>3</sub> positive electrode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2021, 375, 137982. | 2.6 | 15        |
| 7  | Recent Advances on Sodium-Ion Batteries and Sodium Dual-Ion Batteries: State-of-the-Art Na <sup>+</sup> Host Anode Materials. <i>Small Science</i> , 2021, 1, 2100014.  | 5.8 | 65        |
| 8  | Self-doping-defect engineering in SnP <sub>3</sub> @γ-irradiated hard carbon anode for rechargeable sodium storage. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 279-290.   | 5.0 | 7         |
| 9  | Self-Assembled VS <sub>4</sub> Hierarchitectures with Enhanced Capacity and Stability for Sodium Storage. <i>Energy and Environmental Materials</i> , 2022, 5, 592-598.   | 7.3 | 30        |
| 10 | 2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , 2021, 3, 031503.   | 2.3 | 125       |
| 11 | Simultaneous Regulation on Solvation Shell and Electrode Interface for Dendrite-Free Zn Ion Batteries Achieved by a Low-Cost Glucose Additive. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18247-18255.            | 7.2 | 529       |
| 12 | Simultaneous Regulation on Solvation Shell and Electrode Interface for Dendrite-Free Zn Ion Batteries Achieved by a Low-Cost Glucose Additive. <i>Angewandte Chemie</i> , 2021, 133, 18395-18403.                                   | 1.6 | 97        |
| 13 | Fast and highly reversible Na <sup>+</sup> intercalation/extraction in Zn/Mg dual-doped P2-Na <sub>0.67</sub> MnO <sub>2</sub> cathode material for high-performance Na-ion batteries. <i>Nano Research</i> , 2021, 14, 3531-3537.  | 5.8 | 35        |
| 14 | Anionic redox reaction in Na-deficient layered oxide cathodes: Role of Sn/Zr substituents and in-depth local structural transformation revealed by solid-state NMR. <i>Energy Storage Materials</i> , 2021, 39, 60-69.              | 9.5 | 35        |
| 15 | Promises and Challenges of Sn-Based Anodes for Sodium-Ion Batteries. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2931-2942.   | 2.6 | 11        |
| 16 | Insights of the Electrochemical Reversibility of P2-Type Sodium Manganese Oxide Cathodes via Modulation of Transition Metal Vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38305-38314.                       | 4.0 | 13        |
| 17 | Oxocarbons Electrode Materials for Alkali Ion Batteries: Challenges, Strategies and Development. <i>Batteries and Supercaps</i> , 2021, 4, 1791-1802.   | 2.4 | 2         |
| 18 | Sucrose-Thiourea-Derived Nitrogen and Sulfur Co-doped Hierarchically Porous Carbon Nanosheets as a High-Performance Negative Electrode for Sodium-Ion Batteries. <i>Energy &amp; Fuels</i> , 2021, 35, 16174-16182.                 | 2.5 | 5         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Ab initio study of the structural and electronic properties of Al/Mg-doped NaMO <sub>2</sub> (M=V, Cr and Ni) for sodium-ion batteries application. Theoretical Chemistry Accounts, 2021, 140, 1.                                     | 0.5  | 3         |
| 20 | N, O and S co-doped hierarchical porous carbon derived from a series of samara for lithium and sodium storage: Insights into surface capacitance and inner diffusion. Journal of Colloid and Interface Science, 2021, 598, 250-259.   | 5.0  | 30        |
| 21 | Advanced Nanocellulose-Based Composites for Flexible Functional Energy Storage Devices. Advanced Materials, 2021, 33, e2101368.   | 11.1 | 251       |
| 22 | Supercritical CO <sub>2</sub> foaming strategy to fabricate nitrogen/oxygen co-doped bi-continuous nanoporous carbon scaffold for high-performance potassium-ion storage. Journal of Power Sources, 2021, 507, 230275.                | 4.0  | 6         |
| 23 | Rational Design of Yolk-Shell Zn <sub>0.5</sub> Co <sub>0.5</sub> Se@N-Doped Dual Carbon Architectures as Long-Life and High-Rate Anodes for Half/Full Na-ion Batteries. Small, 2021, 17, e2101887.                                   | 5.2  | 46        |
| 24 | Structural engineering of electrode materials to boost high-performance sodium-ion batteries. Cell Reports Physical Science, 2021, 2, 100551.   | 2.8  | 19        |
| 25 | First-principles investigation on the crystal, electronic structures and diffusion barriers of F-doped NaMO <sub>2</sub> (M=V, Cr, Co and Ni) for rechargeable Na-ion batteries. Journal of Solid State Chemistry, 2021, 302, 122440. | 1.4  | 3         |
| 26 | High ionic conductivity and stable phase Na <sub>11.5</sub> Sn <sub>2</sub> Sb <sub>0.5</sub> Ti <sub>0.5</sub> S <sub>12</sub> for all-solid-state sodium batteries. Journal of Power Sources, 2021, 512, 230485.                    | 4.0  | 10        |
| 27 | Strong oxidation induced quinone-rich dopamine polymerization onto porous carbons as ultrahigh-capacity organic cathode for sodium-ion batteries. Energy Storage Materials, 2021, 43, 120-129.  | 9.5  | 26        |
| 28 | N-doped and oxygen vacancy-rich NiCo <sub>2</sub> O <sub>4</sub> nanograss for supercapacitor electrode. Chemical Engineering Journal, 2022, 429, 132242.   | 6.6  | 124       |
| 29 | A safe, low-cost and high-efficiency presodiation strategy for pouch-type sodium-ion capacitors with high energy density. Journal of Energy Chemistry, 2022, 64, 442-450.   | 7.1  | 24        |
| 30 | Stable cycling of Prussian blue/Zn battery in a nonflammable aqueous/organic hybrid electrolyte. RSC Advances, 2021, 11, 30383-30391.   | 1.7  | 8         |
| 31 | Amorphization driven Na-alloying in Si <sub>x</sub> Ge <sub>1-x</sub> alloy nanowires for Na-ion batteries. Journal of Materials Chemistry A, 2021, 9, 20626-20634.   | 5.2  | 12        |
| 32 | Recyclable amphiphilic porous thin-films as electrodes for high-performance potassium-ion transport and storage. Materials Chemistry Frontiers, 2021, 5, 3099-3109.   | 3.2  | 3         |
| 33 | Sponge-like NaFe <sub>2</sub> PO <sub>4</sub> (SO <sub>4</sub> ) <sub>2</sub> @rGO as a high-performance cathode material for sodium-ion batteries. New Journal of Chemistry, 2021, 45, 4854-4859.                                    | 1.4  | 7         |
| 34 | Modulation of MoS <sub>2</sub> interlayer dynamics by <i>in situ</i> N-doped carbon intercalation for high-rate sodium-ion half/full batteries. Nanoscale, 2021, 13, 18322-18331.   | 2.8  | 9         |
| 35 | Recent Advanced Development of Artificial Interphase Engineering for Stable Sodium Metal Anodes. Small, 2022, 18, e2102250.   | 5.2  | 46        |
| 36 | Recent Advances in Heterostructured Carbon Materials as Anodes for Sodium-ion Batteries. Small Structures, 2021, 2, .   | 6.9  | 80        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | An experimental and modeling study of sodium-ion battery electrolytes. <i>Journal of Power Sources</i> , 2021, 516, 230658.  | 4.0 | 7         |
| 38 | Validating the Structural (In)stability of P3- and P2-Na <sub>0.67</sub> Mg <sub>0.1</sub> Mn <sub>0.9</sub> O <sub>2</sub> -Layered Cathodes for Sodium-Ion Batteries: A Time-Decisive Approach. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 53877-53891. | 4.0 | 10        |
| 39 | Sodium-ion battery technology: Advanced anodes, cathodes and electrolytes. <i>Journal of Physics: Conference Series</i> , 2021, 2109, 012004.  | 0.3 | 5         |
| 40 | Comparing lithium and sodium ion batteries for their applicability within energy storage systems. <i>Energy Storage</i> , 2022, 4, .   | 2.3 | 4         |
| 41 | Physics-based modeling of sodium-ion batteries part I: Experimental parameter determination. <i>Electrochimica Acta</i> , 2022, 404, 139726.   | 2.6 | 3         |
| 42 | Physics-based modeling of sodium-ion batteries part II. Model and validation. <i>Electrochimica Acta</i> , 2022, 404, 139764.  | 2.6 | 3         |
| 43 | An In-depth analysis of the electrochemical processing parameters for monolithic solid electrolyte interphase (SEI) formation at Ti-SiO <sub>2</sub> /C anode for high performance Lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 432, 134282.       | 6.6 | 3         |
| 44 | High-Voltage Polyanion Positive Electrode Materials. <i>Molecules</i> , 2021, 26, 5143.  | 1.7 | 6         |
| 45 | High-performance Ni/Fe-codoped manganese hexacyanoferrate by scale-up synthesis for practical Na-ion batteries. <i>Materials Today Sustainability</i> , 2022, 18, 100113.  | 1.9 | 6         |
| 46 | Oxides free materials as anodes for sodium-ion batteries. , 2022, , 177-199.   |     | 1         |
| 47 | Coupling of 3D Porous Hosts for Li Metal Battery Anodes with Viscous Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 010511.  | 1.3 | 2         |
| 48 | Green economy and waste management: An inevitable plan for materials science. <i>Progress in Natural Science: Materials International</i> , 2022, 32, 1-9.   | 1.8 | 59        |
| 49 | Regulated Synthesis of NaVOPO <sub>4</sub> with an Enhanced Conductive Network as a High-Performance Cathode for Aqueous Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 6841-6851.  | 4.0 | 12        |
| 50 | Application of Guar Gum and its Derivatives as Green Binder/Separator for Advanced Lithium Ion Batteries. <i>ChemistryOpen</i> , 2022, 11, e202100209.   | 0.9 | 10        |
| 51 | Revealing Na-segregation at the Si/Graphene Interface and Its Implications toward the Na-storage Behavior of Si-Based Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, , .  | 4.0 | 1         |
| 52 | Dual-Functional C-Composited Na <sub>0.316</sub> Fe <sub>0.242</sub> (P) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Electrochemical Performances for Sodium Ion Battery. <i>SSRN Electronic Journal</i> , 0, , .   | 0.4 | 0         |
| 53 | Magnesene: a theoretical prediction of a metallic, fast, high-capacity, and reversible anode material for sodium-ion batteries. <i>Nanoscale</i> , 2022, 14, 6118-6125.  | 2.8 | 13        |
| 54 | Ge nanowires on top of a Ge substrate for applications in anodes of Li and Na ion batteries: a first-principles study. <i>RSC Advances</i> , 2022, 12, 9163-9169.  | 1.7 | 6         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | Transport and Electrochemical Properties of Na <sub>x</sub> Fe <sub>1-x</sub> Mn <sub>y</sub> O <sub>2</sub> Cathode Materials for Na-ion batteries. Experimental and Theoretical Studies. Energy Technology, 2022, 10, 2101105.                      | 1.8  | 2         |
| 56 | Electrolyte Modification for Long-Life Zn Ion Batteries: Achieved by Methanol Additive. ChemElectroChem, 2022, 9, .   | 1.7  | 13        |
| 57 | In-situ Polymerized Gel Polymer Electrolytes with High Room-Temperature Ionic Conductivity and Regulated Na <sup>+</sup> Solvation Structure for Sodium Metal Batteries. Advanced Functional Materials, 2022, 32, .                                   | 7.8  | 31        |
| 58 | Self-Sacrifice Template Construction of Uniform Yolk-Shell ZnS@C for Superior Alkali-Ion Storage. Advanced Science, 2022, 9, e2200247.  | 5.6  | 46        |
| 59 | From spent lithium-ion batteries to high performance sodium-ion batteries: a case study. Materials Today Energy, 2022, 26, 100997.  | 2.5  | 7         |
| 60 | A significant enhancement of cycling stability at fast charging rate through incorporation of Li <sub>3</sub> N into LiF-based SEI in SiO anode for Li-ion batteries. Electrochimica Acta, 2022, 412, 140107.   | 2.6  | 17        |
| 61 | Superior cycling stability of saturated graphitic carbon nitride in hydrogel reduced graphene oxide anode for Sodium-ion battery. FlatChem, 2022, 33, 100351.   | 2.8  | 9         |
| 62 | Tungsten and oxygen co-doped stable tetragonal phase Na <sub>3</sub> SbS <sub>4</sub> with ultrahigh ionic conductivity for all-solid-state sodium batteries. Applied Materials Today, 2022, 27, 101448.  | 2.3  | 16        |
| 63 | Strengthened the structural stability of in-situ F <sup>+</sup> doping Ni-rich LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> cathode materials for lithium-ion batteries. Chemical Engineering Journal, 2022, 438, 135537. | 6.6  | 50        |
| 64 | A silk sericin-confined in-situ synthesis strategy: Fe <sub>7</sub> S <sub>8</sub> inserted N,S co-doped carbon nano-aggregates for high-performance sodium storage. Journal of Alloys and Compounds, 2022, 910, 164875.                              | 2.8  | 6         |
| 65 | Effects of Nitriles additives on performances of SiO <sub>x</sub> /Graphite   NCM811 pouch cell at elevated temperature. International Journal of Electrochemical Science, 0, , ArticleID:220549.   | 0.5  | 1         |
| 66 | Expanded solid-solution behavior and charge-discharge asymmetry in Na <sub>x</sub> CrO <sub>2</sub> Na-ion battery electrodes. Journal of Power Sources, 2022, 535, 231317.   | 4.0  | 8         |
| 67 | In situ preparation of an anatase/rutile-TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T hybrid electrode for durable sodium ion batteries. RSC Advances, 2022, 12, 12219-12225.   | 1.7  | 1         |
| 68 | Electrode materials for reversible sodium ions de/intercalation. , 2022, , .  |      | 1         |
| 69 | Unfolding the structural features of NASICON materials for sodium-ion full cells. , 2022, 4, 776-819.   |      | 39        |
| 70 | Building a flexible and applicable sodium ion full battery based on self-supporting large-scale CNT films intertwined with ultra-long cycling NiCo <sub>2</sub> S <sub>4</sub> . Nanoscale, 2022, 14, 10226-10235.                                    | 2.8  | 6         |
| 71 | Computational delving into conceivable thermoelectric and spintronic applications of NH <sub>4</sub> AF <sub>3</sub> (A=Fe and Co) ferromagnets. Canadian Journal of Physics, 2022, 100, 319-328.   | 0.4  | 1         |
| 72 | Understanding of Sodium Storage Mechanism in Hard Carbons: Ongoing Development under Debate. Advanced Energy Materials, 2022, 12, .   | 10.2 | 88        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 73 | Plant-derived hard carbon as anode for sodium-ion batteries: A comprehensive review to guide interdisciplinary research. <i>Chemical Engineering Journal</i> , 2022, 447, 137468.   | 6.6  | 63        |
| 74 | Investigation of ion-electrode interactions of linear polyimides and alkali metal ions for next generation alternative-ion batteries. <i>Chemical Science</i> , 2022, 13, 9191-9201.  | 3.7  | 11        |
| 75 | Chemomechanics of Rechargeable Batteries: Status, Theories, and Perspectives. <i>Chemical Reviews</i> , 2022, 122, 13043-13107.   | 23.0 | 59        |
| 76 | $P_2$ type $Na_xTmO_2$ oxides as cathodes for non-aqueous sodium-ion batteries” Structural evolution and commercial prospects. <i>International Journal of Energy Research</i> , 2022, 46, 21894-21927.                       | 2.2  | 5         |
| 77 | Hierarchical $MoS_2$ Nanotubes Supported by Tubular $CoS_2$ on Carbon Cloth as Flexible Electrodes for Durable Lithium-Ion Storage. <i>ACS Applied Energy Materials</i> , 2022, 5, 10056-10066.                               | 2.5  | 4         |
| 78 | Application-Based Prospects for Dual-Ion Batteries. <i>ChemSusChem</i> , 2023, 16, .  | 3.6  | 4         |
| 79 | Critical overview of polyanionic frameworks as positive electrodes for Na-ion batteries. <i>Journal of Materials Research</i> , 2022, 37, 3169-3196.  | 1.2  | 8         |
| 80 | Molten Salts Etching Route Driven Universal Construction of MXene/Transition Metal Sulfides Heterostructures with Interfacial Electronic Coupling for Superior Sodium Storage. <i>Advanced Energy Materials</i> , 2022, 12, . | 10.2 | 58        |
| 81 | Effects of nitrogen and sulfur atom regulation on electrochemical properties of $Na_3V_2(PO_4)_2F_3$ cathode material for Na-ion batteries. <i>Ceramics International</i> , 2022, , .   | 2.3  | 3         |
| 82 | Advanced sodium-ion capacitor based on antimony-carbon composite anode. <i>Rare Metals</i> , 2022, 41, 3360-3369.   | 3.6  | 9         |
| 83 | Recent progresses and perspectives of VN-based materials in the application of electrochemical energy storage. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 114, 52-76.                                     | 2.9  | 5         |
| 84 | Investigation of $W^{6+}$ -doped in high-nickel $LiNi_{0.83}Co_{0.11}Mn_{0.06}O_2$ cathode materials for high-performance lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 628, 338-349.        | 5.0  | 15        |
| 85 | Improved Na-ion kinetics of 1T $MoS_2$ nanopatterned porous hard carbon as an ultra-long life anode. <i>Electrochimica Acta</i> , 2022, 432, 141130.  | 2.6  | 4         |
| 86 | Performance analysis of Na-ion batteries by machine learning. <i>Journal of Power Sources</i> , 2022, 549, 232126.  | 4.0  | 5         |
| 87 | Assessment of the first commercial Prussian blue based sodium-ion battery. <i>Journal of Power Sources</i> , 2022, 548, 232036.   | 4.0  | 22        |
| 88 | A bifunctional nitrogen doped carbon network as the interlayer for dendrite-free Zn anode. <i>Chemical Engineering Journal</i> , 2023, 452, 139264.   | 6.6  | 9         |
| 89 | A high-rate capability and energy density sodium ion full cell enabled by F-doped $Na_2Ti_3O_7$ hollow spheres. <i>Journal of Materials Chemistry A</i> , 2022, 10, 23232-23243.  | 5.2  | 5         |
| 90 | Theoretical Research of two-dimensional germanether in sodium-ion battery. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .   | 0.2  | 0         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 91  | Battery Cell Temperature Sensing Towards Smart Sodium-Ion Cells for Energy Storage Applications. , 2022, , .  |      | 1         |
| 93  | Polycyclic Aromatic Hydrocarbon-Enabled Wet Chemical Prelithiation and Presodiation for Batteries. Batteries, 2022, 8, 99.  | 2.1  | 7         |
| 94  | Safety Evaluation of a Sodium-Ion Cell: Assessment of Vent Gas Emissions under Thermal Runaway. ACS Energy Letters, 2022, 7, 3386-3391.   | 8.8  | 4         |
| 95  | Structure-Activity Relationships of a Ni-MOF, a Ni-MOF@rGO, and pyrolyzed Ni/C@rGO Structures for Sodium-ion Batteries. ChemistrySelect, 2022, 7, .   | 0.7  | 2         |
| 96  | Chemical presodiation of alloy anodes with improved initial coulombic efficiencies for the advanced sodium-ion batteries. Journal of Applied Electrochemistry, 2023, 53, 9-18.  | 1.5  | 3         |
| 97  | Scalable Preparation of Mn/Ni Binary Prussian Blue as Sustainable Cathode for Harsh-Condition-Tolerant Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2022, 10, 13277-13287.  | 3.2  | 8         |
| 98  | Interfacial Bonding of SnSb Alloys with Graphene toward Ultrafast and Cycle-Stable Na-Ion Battery Anodes. ACS Sustainable Chemistry and Engineering, 2022, 10, 12177-12187.   | 3.2  | 7         |
| 99  | One-step synthesis of graphene-wrapped ZnS-MoS2@carbon composites as an ultrastable lithium storage anode material. Electrochimica Acta, 2022, 436, 141264.   | 2.6  | 5         |
| 100 | A Surface Modification Strategy Towards Reversible Na-ion Intercalation on Graphitic Carbon Using Fluorinated Few-Layer Graphene. Journal of the Electrochemical Society, 2022, 169, 106522.  | 1.3  | 7         |
| 101 | Na <sup>+</sup> -Activation Engineering in the Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Cathode with Boosting Kinetics for Fast-Charging Na-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 47685-47695. | 4.0  | 14        |
| 102 | Reforming Magnet Waste to Prussian Blue for Sustainable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 47747-47757.  | 4.0  | 10        |
| 103 | Prospective Sustainability Screening of Sodium-ion Battery Cathode Materials. Advanced Energy Materials, 2022, 12, .  | 10.2 | 31        |
| 104 | Facile fabrication of a series of Cu-doped Co3O4 with controlled morphology for alkali metal-ion batteries. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 656, 130459.  | 2.3  | 1         |
| 105 | High-performance and sodiation mechanism of a pulse potential-electrodeposited Sb-Zn alloy as an anode for sodium-ion batteries. Applied Surface Science, 2023, 609, 155243.  | 3.1  | 5         |
| 106 | Cu triggered phase transitions in Fe7S8@NS-C anode: A neglected factor affecting the electrochemical performance of sodium storage. Applied Surface Science, 2023, 609, 155407.   | 3.1  | 6         |
| 107 | Weak coulomb interaction between anions and Na+ during solvation enabling desirable solid electrolyte interphase and superior kinetics for HC-based sodium ion batteries. Chemical Engineering Journal, 2023, 453, 139932.                  | 6.6  | 7         |
| 108 | Multi-layered MXene V4C3T as new low-voltage insertion anode for Na-ion battery applications. Electrochimica Acta, 2023, 437, 141505.   | 2.6  | 3         |
| 109 | MoS2/MoO2 nanosheets anchored on carbon cloth for high-performance magnesium- and sodium-ion storage. Journal of Materials Science and Technology, 2023, 143, 43-53.  | 5.6  | 8         |



| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 110 | Tracing the technology development and trends of hard carbon anode materials - A market and patent analysis. <i>Journal of Energy Storage</i> , 2022, 56, 105964.  | 3.9  | 9         |
| 111 | Effects of Mg-doping on distorted structure and enhanced electrochemical performance of V1-Mg O2 nanorods. <i>Materials Today Communications</i> , 2022, 33, 104948.   | 0.9  | 1         |
| 112 | Na2Mn(CO3)2: A carbonate based prototype cathode material for Na-ion batteries with high rate capability An ab-initio study. <i>Electrochimica Acta</i> , 2023, 439, 141687.   | 2.6  | 1         |
| 113 | Building optimal SEI through control of morphology and chemical composition for high-performance lithium-ion batteries. <i>Applied Surface Science</i> , 2023, 612, 155888.  | 3.1  | 1         |
| 114 | 3D heterojunction assembled via interlayer-expanded MoSe2 nanosheets anchored on N-doped branched TiO2@C nanofibers as superior anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2023, 938, 168350. | 2.8  | 5         |
| 115 | Effect of Electrolyte Additives on the Performance of Zinc Ion Batteries. <i>International Journal of Electrochemical Science</i> , 2022, 17, 221250.  | 0.5  | 1         |
| 116 | Unexpectedly High Cycling Stability Induced by a High Charge Cut-Off Voltage of Layered Sodium Oxide Cathodes. <i>Advanced Energy Materials</i> , 2023, 13, .  | 10.2 | 16        |
| 117 | Recent Advances in the Preparation and Performance of Porous Titanium-Based Anode Materials for Sodium-Ion Batteries. <i>Energies</i> , 2022, 15, 9495.  | 1.6  | 10        |
| 118 | Two dimensional MnPSe3 layer stacking composites with superior storage performance for alkali metal-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2023, 635, 336-347.   | 5.0  | 6         |
| 119 | Fe, Ni-modified ZIF-8 as a tensive precursor to derive N-doped carbon as Na and Li-ion batteries anodes. <i>Nanotechnology</i> , 2023, 34, 085401.   | 1.3  | 5         |
| 120 | Coral-like cobalt selenide/carbon nanosheet arrays attached on carbon nanofibers for high-rate sodium-ion storage. <i>Rare Metals</i> , 2023, 42, 916-928.   | 3.6  | 20        |
| 121 | Structure evolution of layered transition metal oxide cathode materials for Na-ion batteries: Issues, mechanism and strategies. <i>Materials Today</i> , 2023, 62, 271-295.  | 8.3  | 18        |
| 122 | Flexible hard-soft carbon heterostructure based on mesopore confined carbonization for ultrafast and highly durable sodium storage. <i>Carbon</i> , 2023, 205, 310-320.  | 5.4  | 11        |
| 123 | Terminal Group-Oriented Self-Assembly to Controllably Synthesize a Layer-by-Layer SnSe <sub>2</sub> and MXene Heterostructure for Ultrastable Lithium Storage. <i>Small</i> , 2023, 19, .  | 5.2  | 33        |
| 124 | Activating zinc-ion storage in MXene through Mn <sup>4+</sup> loading on surface terminations. <i>New Journal of Chemistry</i> , 0, .  | 1.4  | 0         |
| 125 | Constructing SnS/Fe2O3 heterostructure anchored on few-layered graphene as an ion-adsorption/diffusion enhancer for ultrafast and cycle-stable sodium storage. <i>Chemical Engineering Journal</i> , 2023, 457, 141243.              | 6.6  | 8         |
| 126 | Revealing the Phase Evolution in Na <sub>4</sub> Fe <sub>x</sub> P <sub>4</sub> O <sub>12</sub> (2 ≤ x ≤ 4) Cathode Materials. <i>ACS Energy Letters</i> , 2023, 8, 753-761.   | 8.8  | 20        |
| 127 | Hard carbon anodes derived from phenolic resin/sucrose cross-linking network for high-performance sodium-ion batteries. , 2023, 2, .   |      | 20        |



| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 128 | Sacrificial Catalyst of Carbothermal-Shock-Synthesized 1T-MoS <sub>2</sub> Layers for Ultralong-Lifespan Seawater Battery. Nano Letters, 2023, 23, 344-352.  | 4.5  | 4         |
| 129 | The synergistic effect of Ti and Nb in TiNbC leads to enhanced anode performance for Na-ion batteries - first-principles calculations. Physica Scripta, 2023, 98, 025710.  | 1.2  | 2         |
| 130 | Assessment of the calendar aging of lithium-ion batteries for a long-term Space missions. Frontiers in Energy Research, 0, 11, .   | 1.2  | 6         |
| 131 | Design advanced nitrogen/oxygen co-doped hard carbon microspheres from phenolic resin with boosted Na-storage performance. Journal of Power Sources, 2023, 564, 232879.  | 4.0  | 7         |
| 132 | Promoting amorphization of commercial TiO <sub>2</sub> upon sodiation to boost the sodium storage performance. Journal of Energy Chemistry, 2023, 81, 379-388.   | 7.1  | 5         |
| 133 | Mild pretreatment synthesis of coal-based phosphorus-doped hard carbon with extended plateau capacity as anodes for sodium-ion batteries. Journal of Alloys and Compounds, 2023, 946, 169384.  | 2.8  | 9         |
| 134 | Self-Formed Fluorinated Interphase with Fe Valence Gradient for Dendrite-Free Solid-State Sodium-Metal Batteries. Advanced Functional Materials, 2024, 34, .   | 7.8  | 5         |
| 135 | Recent progress of Mn-based NASICON-type sodium ion cathodes. Energy Storage Materials, 2023, 57, 69-80.   | 9.5  | 16        |
| 136 | Surface-driven fast sodium storage enabled by Se-doped honeycomb-like macroporous carbon. Physical Chemistry Chemical Physics, 2023, 25, 7213-7222.  | 1.3  | 1         |
| 137 | In-situ synthesis of covalently-bonded SnS <sub>2</sub> /FeS <sub>2</sub> heterostructures for high rate sodium storage. Chemical Engineering Journal, 2023, 460, 141827.  | 6.6  | 5         |
| 138 | Moving toward Smart Hybrid Vertical Carbon/MoS <sub>2</sub> Binder-Free Electrodes for High-Performing Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2023, 11, 3260-3269.   | 3.2  | 4         |
| 139 | Nanometer-thin ZrO <sub>2</sub> Coating for NiO on MWCNTs as Anode for Improved Performance of Sodium-Ion Batteries. ACS Applied Nano Materials, 2023, 6, 2507-2516.   | 2.4  | 7         |
| 140 | Oxygen Redox Activation at Initial Cycle to Improve Cycling Stability for the Na <sub>0.83</sub> Li <sub>0.12</sub> Ni <sub>0.22</sub> Mn <sub>0.66</sub> O <sub>2</sub> System. ACS Applied Materials & Interfaces, 2023, 15, 10709-10717.      | 4.0  | 1         |
| 141 | Low-Temperature Carbonized Nitrogen-Doped Hard Carbon Nanofiber Toward High-Performance Sodium-Ion Capacitors. Energy and Environmental Materials, 2023, 6, .  | 7.3  | 11        |
| 142 | Unveiling a high capacity multi-redox (Nb <sup>5+</sup> /Nb <sup>4+</sup> /Nb <sup>3+</sup> ) NASICON-Nb <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> anode for Li- and Na-ion batteries. Journal of Materials Chemistry A, 2023, 11, 8173-8183. | 5.2  | 7         |
| 143 | Metal-Organic Assembly Strategy for the Synthesis of Layered Metal Chalcogenide Anodes for Na <sup>+</sup> /K <sup>+</sup> -ion Batteries. ChemSusChem, 2023, 16, .  | 3.6  | 2         |
| 144 | A perspective on the role of anions in highly concentrated aqueous electrolytes. Energy and Environmental Science, 2023, 16, 1480-1501.  | 15.6 | 37        |
| 145 | $\text{Na} \times \text{Nb}_3\text{O}_{10}$  | 1.5  | 2         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 146 | A Systematic Study on the Effects of Solvating Solvents and Additives in Localized High-Concentration Electrolytes over Electrochemical Performance of Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .                  | 7.2  | 8         |
| 147 | A Systematic Study on the Effects of Solvating Solvents and Additives in Localized High-Concentration Electrolytes over Electrochemical Performance of Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2023, 135, .   | 1.6  | 3         |
| 148 | Ammonium Ion Batteries: Material, Electrochemistry and Strategy. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .   | 7.2  | 32        |
| 149 | Ammonium Ion Batteries: Material, Electrochemistry and Strategy. <i>Angewandte Chemie</i> , 2023, 135, .  | 1.6  | 2         |
| 150 | Progress and Perspectives for Solar-Driven Water Electrolysis to Produce Green Hydrogen. <i>Advanced Energy Materials</i> , 2023, 13, .   | 10.2 | 28        |
| 151 | Ultralow diffusion barrier induced by intercalation in layered N-based cathode materials for sodium-ion batteries. <i>RSC Advances</i> , 2023, 13, 8182-8189.   | 1.7  | 1         |
| 152 | Boosting sodium-storage properties of hierarchical Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @C micro-flower cathodes by tiny Cr doping: The effect of "four ounces moving a thousand pounds". <i>Nano Research</i> , 2024, 17, 235-244. | 5.8  | 7         |
| 153 | Microstructure regulation of resin-based hard carbons via esterification cross-linking for high-performance sodium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2023, 10, 2404-2413.   | 3.0  | 3         |
| 154 | Opportunities for moderate-range electric vehicles using sustainable sodium-ion batteries. <i>Nature Energy</i> , 2023, 8, 215-218.   | 19.8 | 64        |
| 155 | Intrinsic effects of precursor functional groups on the Na storage performance in carbon anodes. <i>Nano Research</i> , 0, , .  | 5.8  | 2         |
| 157 | The Anode Materials for Lithium-Ion and Sodium-Ion Batteries Based on Conversion Reactions: a Review. <i>ChemElectroChem</i> , 2023, 10, .  | 1.7  | 12        |
| 158 | The Status of Representative Anode Materials for Lithium-Ion Batteries. <i>Chemical Record</i> , 2023, 23, .  | 2.9  | 19        |
| 159 | Revealing alkali metal ions transport mechanism in the atomic channels of Au@MnO <sub>2</sub> . <i>Journal of Energy Chemistry</i> , 2023, 82, 350-358.   | 7.1  | 2         |
| 160 | Ultra-fine SnO <sub>2</sub> nanocrystals anchored on reduced graphene oxide as a high-performance anode material for sodium-ion batteries. <i>Nanotechnology</i> , 2023, 34, 325602.  | 1.3  | 4         |
| 161 | Heterostructured NiS/TiO <sub>2</sub> Nanosheets Assembled into Microflowers with Enhanced Cycling Stability for Sodium-Ion Storage. <i>ACS Applied Energy Materials</i> , 2023, 6, 4971-4981.  | 2.5  | 1         |
| 178 | Crystal Facet Design in Layered Oxide Cathode Enables Low-Temperature Sodium-Ion Batteries. , 2023, 5, 2233-2242.   |      | 7         |
| 179 | Recycling of sodium-ion batteries. <i>Nature Reviews Materials</i> , 2023, 8, 623-634.  | 23.3 | 32        |
| 190 | NaCrO <sub>2</sub> @C Flexible Free-standing Cathode via Electrospinning Technique for Sodium Ion Batteries. <i>Chemical Communications</i> , 0, , .  | 2.2  | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 195 | Controllable fabrication of vanadium selenium nanosheets for a high-performance Na-ion battery anode. <i>Chemical Communications</i> , 2023, 59, 11365-11368.                              | 2.2 | 1         |
| 201 | Fluorophosphates and fluorosulfates cathode materials: Progress towards high energy density sodium-ion battery. <i>Nano Research</i> , 2024, 17, 1427-1440.                                | 5.8 | 0         |
| 225 | Modular preparation of functional bimetallic spinels from metal-organic frameworks: a deep exploration from macro and micro perspectives. <i>Journal of Materials Chemistry A</i> , 0, , . | 5.2 | 0         |
| 242 | Comprehensive analysis and mitigation strategies for safety issues of sodium-ion batteries. <i>Rare Metals</i> , 2024, 43, 1343-1349.  | 3.6 | 0         |