

Two-dimensional redox-active covalent organic frameworks (COFs) are ideal materials for energy storage applications due to their high surface area, extended π conjugated structure, tunable ...

Enhanced interfacial bonding for boosting the performance of lithium-ion batteries through an etched ordered checkerboard patterns on current collectors Journal of Energy Storage (IF 9.8 ...

A novel composite solid electrolyte based on chemical bonding and physical reinforcing for all-solid-state lithium metal batteries Journal of Energy Storage (IF 8.9) Pub Date : 2024-04-27, ...

Given the growing energy demands, organic phase change materials (PCMs) have been widely explored, with leakage and high phase change enthalpy being primary concerns for practical ...

Both interface bonding between the electrodes and the electrolytes and the porosity in structural electrolytes have a great effect on the energy storage capacity of structural supercapacitors ...

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Mapping the Na ion chemical bonding state in energy-related materials is one of the key challenges for understanding heterogeneity in interfacial regions, such as in solid-electrolyte ...

Furthermore, this work provides insights into the synergistic energy storage mechanism in the organic-inorganic hybrids cathode for aqueous zinc-ion batteries. ????:

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