

Title: Plateau electrochemical energy storage

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Hard carbon anodes with all-plateau capacities below 0.1 V are prerequisites to achieve high-energy-density sodium-ion storage, which holds promise for future sustainable energy...

Herein, we present an effective closed-pore construction strategy by one-step pyrolysis of zinc gluconate (ZG) and elucidate the corresponding mechanism of closed-pore formation.

The development of hard carbon materials with high plateau capacity as anode materials for sodium-ion batteries (SIBs) is crucial to improving the energy density of SIBs, while the closed pores are closely ...

On the grounds of co-facilitation on electrons and ions, the first plateau is significantly extended and its proportion is increased, which liberates the confinement on electrochemical ...

Advances in electrolyte development have further unlocked the electrochemical potential of NIB cathodes, allowing them to approach their intrinsic energy storage properties.

In this study, we present a novel generalized strategy utilizing P and O double cross-linking to convert pitch into a thermosetting precursor, creating copious micropores within pitch-based carbon.

Hard carbon is the most commercially viable anode material for sodium-ion batteries (SIBs), and yet, its practical implementation remains constrained by insufficient low-voltage plateau ...

Electrochemical energy storage systems face evolving requirements. Electric vehicle applications require batteries with high energy density and fast-charging capabilities. Grid-scale ...

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