

Bamboo solar battery

Can bamboo-based biochar be used as a carbon anode for lithium batteries?

We were motivated to develop a carbon anode for lithium batteries using bamboo-based biochar as raw material without any chemical or physical treatment. We disclosed a sustainable, low-cost production of conductive carbons by slow-pyrolysis of the *Dendrocalamus giganteus* bamboo species.

Is bamboo a bioenergy feedstock?

Bamboo is a giant grass as a potential bioenergy feedstock. It is a gradient functional material with highly oriented lignocellulose polymers distributed to protect the living cells (parenchyma tissue), and the lignified sclerenchyma fibers are devoted to protecting the vascular bundle system [12,13].

Are bamboo biochar-based anodes electrochemically effective?

The electrochemical performance of the bamboo biochar-based anodes was tested in CR2032-coin half cells, formed by lithium chips used as counter and reference electrodes, a glass fiber working as a separator, and the B800 and B1000 slurry as the working electrode.

What is bamboo biochar carbon?

Bamboo biochar carbons (BC) were produced from 4-year-old Giant bamboo (*Dendrocalamus giganteus*) cut 2 m away from the root at the PUC-Rio campus, Brazil [39,,].

Are bamboo-based biochars sustainable?

Brazilian Untreated Bamboo-based biochars for sustainable lithium batteries (LIB). Greener production by eliminating solvents and chemicals for eco-battery supply chain. Electron paramagnetic resonance determines the Permanent Free Radical for different conductive bamboo-based biochars.

Why does bamboo biochar have a high specific surface area?

Both are attributed to the irreversible reactions between the electrolyte and surface functional groups (high specific surface area of the bamboo biochar material), namely, the solid electrolyte interphase (SEI) formation.

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