

Structural and property characteristics of Chinese fir wood charcoal prepared under various conditio... Study on the Co₃O₄ negative materials for lithium-ion batteries Influence of some ...

State of Health (SOH) estimation, as one of the core functionalities in battery management, is essential to ensuring the safety and stability of energy storage systems. Significant progress ...

Lithium-ion batteries (LIBs) have been widely implemented in various industries owing to their high energy density and excellent cycling durability [1], [2]. However, safety-related issues ...

The robust oxygen-metal bonding within the cathode materials of lithium-ion batteries (LIBs) represents a significant challenge to the cost-effective and efficient extraction of lithium. ...

This dual benefit-enhanced ion/electron accessibility from the hollow morphology and structural stability reinforced by interfacial carbon integration-collectively drives the fast and reversible ...

The logical design of nanoparticles allows for exceptionally high surface areas. The majority of consumer gadgets and transportation systems rely on lithium-ion batteries (LIBs). Over the ...

The results show that the overcharging process of the battery can be divided into four stages accord-ing to the change of characteristic voltage:normal charging, lithium plating, side ...

Thermal propagation is one of the most challenging areas of development for lithium-ion traction batteries for electric vehicles. The relevant legal safety requirements are currently being ...

Abstract: The ion insertion positions provided by graphene for Na + batteries are very limited, resulting in low electrical activity and capacities of the battery, which affects the charging and ...

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Accurate state of health estimation is crucial for the reliable operation of lithium-ion batteries in electric vehicles. The charging curve contains valuable features for health evaluation, but real ...

Ultrahigh-power lithium-ion batteries (LIBs) hold promising applications in military fields such as directed energy weapons and electromagnetic launch systems, and the safety of ultrahigh ...

Carbon neutrality has become an urgent goal for most countries around the world [1], [2]. With the advantages

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