

This review tries to give a bird's eye view comprising the experimental and theoretical insights on the developments in the direction of using antimony and antimony composites as anodes ...

The ongoing research and development in this field aim to overcome the challenges associated with antimony's use in energy storage, unlocking its full potential and contributing to the advancement of ...

systematically investigate the impact of oxide formation on changes in the electrochemical performance of antimony nanocrystal-based Na-ion battery negative electrodes, providing insight

In order to satisfy the demands for high-energy-density storage systems, developing novel electrode materials has widely stimulated extensive research interest.

While lead-acid battery usage is expected to decline as electric motors take the place of ICE engines in the vehicles traveling global highways, antimony is finding its way into new applications in next ...

Abstract Aqueous trivalent metal batteries are promising energy storage systems, which can leverage unique three-electron redox reactions to deliver high capacity and high energy. Among them, ...

Owing to its high theoretical specific capacity, effective working voltage, and abundant raw materials, antimony sulfide (Sb_2S_3) was regarded as one promising anode material for ...

An unsung war hero that saved countless American troops during World War II, an overlooked battery material that has played a pivotal role in storing electricity for more than 100 years, and a major ...

In this work, bimetallic Bi-Sb solid solutions in a porous carbon matrix are synthesized by a pyrolysis method as anode material for SIBs.

This review discusses various antimony-based anode materials applied to potassium ion batteries from various perspectives, including material selection, structural design, and storage ...

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