Sno-c structure energy storage

Development of efficient electrode materials that boost the energy storage activity is one of the recent challenges in supercapacitor application. Herein, we demonstrate a ...

Compared to the rGO-SnO 2 composite, the incorporation of nanorod-structured ZnSnO 3 significantly enhanced the hydrogen response and reduced the optimal operating temperature ...

A tin dioxide/carbon composite (SnO 2 @C) with controlled shape is fabricated using a two-step method, which includes preparation of SnC 2 O 4 precursors and subsequent ...

Because of its electrically conducting properties combined with excellent thermal stability and transparency throughout the visible spectrum, tin oxide (SnO2) is ...

In this study, we prepared a Sn/SnO 2 /C nano-composite structure by employing a low-cost hydrothermal method, where Sn nanoparticles were oxidized in glucose ...

New 1-D SnO2@C core-shell nanochains built into 3-D superstructures are presented for the first time as anode materials for lithium-ion batteries. These novel SnO2@C core-shell nanochains ...

Simultaneous enhancement in dielectric constant and electric breakdown strength is the desired way for polymer-based dielectric materials to achieve a high discharge energy ...

Graphical abstract Sandwich-like Nanostructured Sn/SnO x @Ti 3 C 2 composites synthesized by in-situ growth of Sn/SnO x nanoparticles on the interlayer of 2D ...

The core-shell structure is considered as an effective strategy to solve the expansion problem of silicon-based anodes. In this paper, the double-shell structured Si@SnO ...

Due to their unique electronic structures and excellent characteristics at the nanoscale, metal oxide nanocrystals (NCs), such as titanium dioxide (TiO 2), zinc oxide (ZnO), ...

Wu XH, Liu ZL, Zheng J, et al. Arc-discharge Synthesis of Dual-carbonaceous-layer-coated Tin Nanoparticles with Tunable Structures and High Reversible Lithium Storage ...

With a high theoretical capacity of 875 and 1150 mAhg -1 for lithium and sodium, respectively, SnO is a promising candidate for energy storage applications 5, 9.

Energy Technology Full Paper In Situ Construction of Multibuffer Structure 3D CoSn@SnO x /CoO x @C

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Anode Material for Ultralong Life Lithium Storage Zhiyuan Wang, Kangze Dong, ...

Influence of supporting electrolytes on the structure of electrodeposited SnO 2 thin films for energy storage applications Ionics (IF2.6) Pub Date : 2016-04-29, DOI: 10.1007/s11581-016 ...

SnO 2 is considered a promising anode candidate for both lithium-ion batteries. Herein, we designed a novel construction of SiO 2 @C@SnO 2 anodes with an extremely high ...

RESEARCH ARTICLE A Novel SnO 2 @BNNSs@C Composite Nano-structure and Its Electrochemical Energy Storage Characteristics Author information+ About authors: ...

This study unveils a superior method for energy storage synthesis, employing CdO, SnO, and CdO 0·2 /SnO 0.2 hetero-junction electrodes through enhanced solid-state ...

This study describes the development of a novel Si@Sn-SnO 2 @carbon composite, which exhibits a synchronous buffering effect, thereby enabling high reversible capacity and stable LIBs.

Many mesoporous nanostructures provide enough buffer space and promote the ions" and electrons" transmission rate. The formation of the Sn-O -C bond between SnO 2 and ...

A facile low-temperature aqueous solution method was applied to synthesize Sn-MOF hexahedron, and then the SnO@C, Sn/SnO@C and Sn@C nanocomposites were ...