The positive electrode material used in nickel-chromium batteries is

The conductivity of most metal oxides is too low to permit their use as current collectors; however, a barrier layer of ZnO on an Al foil has been proposed for electrodes 145, ...

Spherical nickel hydroxide with a diameter of about 10um, which has a high filling property, is used as the positive electrode material for nickel-metal hydride batteries. Cobalt hydroxide is generally used in the positive electrode as the ...

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In most systems, the negative and positive electrodes are separated by an ion-exchange membrane/separator, in common with proton exchange membrane fuel cells (PEMFCs). ...

Nickel metal hydride batteries consist of a positive electrode containing a mixture of carbon/graphite conductive diluent and nickel hydroxide as its principal active ...

Compared with numerous positive electrode materials, layered lithium nickel-cobalt-manganese oxides (LiNi x Co y Mn 1-x-y O 2, denoted as NCM hereafter) have ...

This relationship can be correlated to the change in unit cell volume during the lithiation-delithiation process. This work suggests a universal failure mechanism for Ni-rich ...

In a variety of circumstances closely associated with the energy density of the battery, positive electrode material is known as a crucial one to be tackled. Among all kinds of ...

In this review, the energy-storage performances of nickel-based materials, such as NiO, NiSe/NiSe 2, NiS/NiS 2 /Ni 3 S 2, Ni 2 P, Ni 3 N, and Ni(OH) 2, are summarized in detail. For some materials with innovative structures, their ...

This work focuses on the development of nickel-based quinone complexes as electrode materials for next-generation rechargeable batteries. These complexes were ...

The good electrochemical performance of the NiCr 2 O 4 /NG electrodes and the facile ways of material fabrication and electrode preparation can be easily scale up, which ...

Lithium batteries are composed of a positive electrode, a negative electrode, an electrolyte (also known as

electrolyte), a diaphragm, and a battery casing. The cathode material for...

The overall performance of a Li-ion battery is limited by the positive electrode active material 1,2,3,4,5,6.Over the past few decades, the most used positive electrode active ...

NiCr 2 O 4 is successfully prepared via hydrothermal pretreatment and subsequent sintering, which shows excellent electrochemical performance as a new anode ...

It should be expected that the use of LC metal electrodes would significantly improve the efficiency of lead batteries by reducing the weight of the battery electrode, thereby ...

The family of nickel batteries is based on the utility, strength, and reversibility of the nickel electrode reactions in alkaline media. The nickel active materials for use in ...

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