

## Synthesis Of Nickel And Cobalt Sulfide Nanoparticles Using

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Synthesis of nickel and cobalt su... preview & related ...

Nickel and cobalt sulfides with various stoichiometries have been synthesized sonochemically from Ni(CH 3 COO) 2 · 4H 2 O, Co(CH 3 COO) 2 · 2H 2 O and different sulfur precursors using a direct immersion ultrasonic probe. The products were characterized by X-ray powder diffraction, transmission electron microscopy (TEM) including EDX analysis, IR and UV – Vis spectroscopy and elemental analysis.

Synthesis of nickel and cobalt sulfide nanoparticles using ...

To improve the energy density of a supercapacitor while maintaining its high power density, novel bimetallic nickel cobalt telluride nanotubes are synthesized on nickel foam by a facile solvothermal synthesis followed by an ion-exchange reaction for constructing self-standing hybrid supercapacitor electrodes with high specific capacity and electrical conductivity.

Synthesis of novel bimetallic nickel cobalt telluride ...

Nickel – cobalt layered double hydroxides (Ni – Co-LDH) have recently been examined for their potential as battery-type hybrid supercapacitors made from metal hydroxide electrode materials, due to their unique spatial structure, excellent electrochemical activity, and good electrical conductivity.

Synthesis, characterization, and properties of nickel ...

Nickel cobalt hydroxides were prepared via hydrothermal process with ammonia as the precipitation agent. Nickel nitrate and cobalt nitrate were dissolved to obtain the 0.85 mM Ni(NO 3) 2 and Co(NO 3) 2 solutions, respectively. Designed amount of Ni(NO 3) 2 and Co(NO 3) 2 solutions according to the Ni/Co ratios in the final hydroxides were mixed in a beaker. Floccule-like suspension was obtained by adding 1.0 M ammonia solution drop by drop into the beaker with stirring.

Template-free hydrothermal synthesis of nickel cobalt ...

For example, H. Chen et al., demonstrated the synthesis of nickel cobalt selenide with excellent specific capacity and improved cycling stability than the monometallic Ni or Co selenides , C. Wu et al., reported the higher intrinsic conductivity of nickel cobalt selenide toward superior rate Na-ion storage , P. Xu et al., fabricated NiCoSe 2 based flexible supercapacitor electrode material with excellent specific capacitance , and X. Quian et al., proposed the nickel cobalt selenide based ...

Synthesis and characterization of bimetallic nickel-cobalt ...

In this work, we have extended our previous work on the systematic water-stability studies of MOFs and synthesized new, cobalt-, nickel-, copper-, and zinc-based, water-stable, pillared MOFs by incorporating structural factors such as ligand sterics and catenation into the framework.

Synthesis of Cobalt-, Nickel-, Copper-, and Zinc-Based ...

In the present study, we have synthesized nickel cobalt sulfides (NCSs) by using simple, inexpensive, binder-free successive ionic layer adsorption and reaction (SILAR) method at room temperature onto the conducting and three-dimensional (3D) nickel foam (NF). Prepared electrode was used directly as the working electrode for supercapacitor study.

Facile synthesis of nickel cobalt sulfide nano flowers for ...

Here, we demonstrate that the central channel of the tobacco mosaic virus (TMV) can be used as a template to synthesize nickel and cobalt nanowires only a few atoms in diameter, with lengths up to the micrometer range.

Biotemplate Synthesis of 3-nm Nickel and Cobalt Nanowires ...

This paper reports the synthesis, characterization, and electrochemical performance of nickel-cobalt hydroxide nanosheets. The hydroxide nanosheets of approximately 0.7 nm thickness were prepared by delamination of layered nickel-cobalt hydroxide lactate in water and formed transparent colloids that were stable for months.

Nickel-cobalt hydroxide nanosheets: Synthesis, morphology ...

NiS2 – CoS2 composites with different Ni and Co molar ratios for supercapacitors (SCs) were synthesized by one-step hydrothermal co-deposition method using cheap Na2S2O3 · 5H2O as sulfur source.

One-step synthesis of nickel cobalt sulphides particles ...

Å Å A facile one-step method for preparing nickel/cobalt layered double hydroxides (Ni/Co LDH) in a mixture of NH 4 Cl/NaOH solutions in the temperature range 45-85 o C is introduced. Ni/Co LDH consists of ultrathin nanosheets of various thicknesses assembled into porous nanostructures/microspheres.

Effect of Synthesis Temperature on Nickel-Cobalt ...

One-step synthesis of nickel and cobalt phosphide nanomaterials via decomposition of hexamethylenetetramine-containing precursors . Zhiwei Yao,\* a Guanzhang Wang, a Yan Shi, a Yu Zhao, a Jun Jiang, a Yichi Zhang a and Haiyan Wang a Author affiliations \* Corresponding authors ...

One-step synthesis of nickel and cobalt phosphide ...

The as-employed polyol method is robust enough to use a one-pot synthesis of nickel cobalt sulphides with similar porous morphology and crystal structure at different nickel and cobalt ratios. The electrochemical performance of the nickel cobalt sulphides can be easily tuned by the varying the Ni and Co content.

One-pot synthesis of porous nickel cobalt sulphides ...

Abstract Nickel-cobalt-manganese sulfide (NiCoMn-S) with a mesoporous structure was synthesized as the electroactive battery materials for hybrid supercapacitors.

Synthesis of mesoporous nickel-cobalt-manganese sulfides ...

Synthesis of Zinc, Copper, Nickel, Cobalt, and Iron Complexes Using Tris(pyrazolyl)methane Sulfonate Ligands: A Structural Model for N,N,O Binding in Metalloenzymes

Synthesis of Zinc, Copper, Nickel, Cobalt, and Iron ...

Inspired by the abovementioned analysis, we herein use metal-formate frameworks as self-sacrificed precursors to synthesize cubic hollow cobalt nickel bimetallic phosphides. The structure and composition are controllable by tuning composition of metal ions in MOFs.

Template synthesis of structure-controlled 3D hollow ...

Synthesis and catalytic application of [PPP]-pincer iron, nickel and cobalt complexes for the hydrosilylation of aldehydes and ketones X. Qi, H. Zhao, H. Sun, X. Li, O. Fuhr and D. Fenske, New J. Chem., 2018, 42, 16583 DOI: 10.1039/C8NJ03919D If you are not the author ...

Synthesis and catalytic application of [PPP]-pincer iron ...

Synthesis of the complexes A general method has been used for the preparation of all the complexes. A hot ethanolic solution of the corresponding cobalt(II) or nickel(II) salt was mixed with a hot ethanolic