

Synthesis Of Nickel And Cobalt Sulfide Nanoparticles Using

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Synthesis Of Nickel And Cobalt

Nickel (II) chloride hexahydrate (NiCl₂ · 6H₂ O) and cobalt (II) chloride hexahydrate (CoCl₂ · 6H₂ O) were purchased from Wako Pure Chemical Industries, Ltd. All the chemicals reagents were of analytical grade and used without any further purification. 2.2. Hydrothermal synthesis of NiCoSe₂, NiCo₂ S₄ and NiCo₂ O₄

Synthesis and characterization of bimetallic nickel-cobalt ...

Nickel and cobalt sulfides with various stoichiometries have been synthesized sonochemically from Ni (CH₃COO)₂ · 4H₂O, Co (CH₃COO)₂ · 2H₂O and different sulfur precursors using a direct immersion ultrasonic probe.

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

Nickel and cobalt sulfides with various stoichiometries have been synthesized sonochemically from Ni(CH₃ COO)₂ · 4H₂ O, Co(CH₃ COO)₂ · 2H₂ 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-based pillared MOFs for high-performance supercapacitors: Design, synthesis and stability study. Nano Energy 2016, 26, 66-73. DOI: 10.1016/j.nanoen.2016.04.003. Ling Li, Zhennan Shi, Hongyang Zhu, Wei Hong, Fengwei Xie, Keke Sun. Adsorption of azo dyes from aqueous solution by the hybrid MOFs/GO.

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

Nickel and cobalt sulfides with various stoichiometries have been synthesized sonochemically from Ni (CH₃COO)₂ · 4H₂O, Co (CH₃COO)₂ · 2H₂O and different sulfur precursors using a direct immersion...

(PDF) Synthesis of nickel and cobalt sulfide nanoparticles ...

Å Å A facile one-step method for preparing nickel/cobalt layered double hydroxides (Ni/Co LDH) in a mixture of NH₄ 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 ...

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 ...

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(NO₃)₂ and Co(NO₃)₂ solutions, respectively. Designed amount of Ni(NO₃)₂ and Co(NO₃)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 ...

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. Stability is assesse...

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

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 ...

Uniform and spherical Li(Ni^{1/3} Co^{1/3} Mn^{1/3})O (2-z) F_z powders were synthesized via NH₃ and F⁻ coordination-hydroxide co-precipitation method at pH 11.0 by coinstantaneous addition of NaOH, NH₄ OH and NaF solution to a solution with stoichiometric amounts of nickel sulfate (NiSO₄ · 6H₂ O), cobalt sulfate (CoSO₄ · 7H₂ O), and manganese sulfate (MnSO₄ · H₂ O).

Review on Synthesis, Characterization, and Electrochemical ...

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 ...

Synthesis and properties of cobalt and nickel complexes with the tripod ligand tris (2-diphenylarsinoethyl)amine. Structural characterization of a sigma₆-phenyl complex of nickel (II) with the same ligand. Inorganic Chemistry 1976, 15 (2), 325-329. https://doi.org/10.1021/ic50156a017 C. A. Ghilardi, S. Midollini, and L. Sacconi.

Synthesis, properties, and structural characterization of ...

Co (II), Ni (II), and Cu (II) complexes of aroylhydrazone mixed with aspirin were synthesized and characterized by percentage metal analysis, infrared and electronic spectroscopy, melting point, solubility, molar conductance and room temperature magnetic moment measurements.

Synthesis, Characterization and Antimicrobial Activities ...

(f) XRD patterns of nickel-cobalt-manganese hydroxides synthesized using different NMP to H₂ O ratios of 0.5:1, 1:1, 2:1, 5:1 and 11:1, and the amorphous NiCoMn-OH was synthesized with an NMP to H₂ O ratio of 11:1; the standard XRD pattern of α-phase Ni(OH)₂ · 0.75 H₂ O (JCPDS 38-0715) is also presented for comparison. High-resolution (b) Ni 2p, (c) Co 2p and (d) Mn 2p XPS spectra of amorphous NiCoMn-OH.

Synthesis of amorphous nickel-cobalt-manganese hydroxides ...

Synthesis of nickel nano-particles with a coating of a hydrophilic surfactant has been carried out by use of sodium borohydride and sodium formaldehyde sulfoxylate (SFS) in aqueous medium.

(PDF) Size-controlled synthesis of Ni and Co metal ...

A novel series of thiourea derivatives, namely, N,N-diphenyl-N'-(4-phenyl-benzoyl)thiourea (HL1), N,N-diphenyl-N'-(4-chloro-benzoyl)thiourea (HL2) and N,N-di-n-propyl-N'-(4-chloro-benzoyl)thiourea (HL3), and its metal complexes has been prepared and characterised by elemental analysis, i.r. spectroscopy, ¹H-n.m.r. spectroscopy, mass spectrometry and single crystal X-ray diffraction. The ...

Synthesis and characterization of copper(II), nickel(II) ...

The emergence of N-heterocyclic carbenes as ligands across the Periodic Table had an impact on various aspects of the coordination, organometallic, and catalytic chemistry of the 3d metals, including Cu, Ni, and Co, both from the fundamental viewpoint but also in applications, including catalysis, photophysics, bioorganometallic chemistry, materials, etc. In this review, the emergence ...

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