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# Synthesis of nickel and cobalt sulfide nanoparticles using a low cost sonochemical method

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## Abstract

Nickel and cobalt sulfides are promising materials in different cutting-edge research areas like solar cells, supercapacitors, catalysts, and electrode materials. Nickel and cobalt sulfides with various stoichiometries have been synthesized sonochemically from  $\text{Ni}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ ,  $\text{Co}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$  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. Following products have been obtained:  $\text{NiS}$ ,  $\text{Ni}_2\text{S}_3$ ,  $\text{CoS}_{1.092}$  and  $\text{Co}_9\text{S}_8$ , with average crystallite sizes in the range 7–30 nm. Effects of different reaction conditions on the size, morphology and optical band-gap energy were evaluated. Optical band-gap energies in the range 3.3 eV–3.8 eV were observed for the obtained nanoparticles.

**Keywords:** Materials science, Inorganic chemistry, Nanotechnology

## 1. Introduction

Transition metal chalcogenides have attracted considerable attention during the past decade due to their unique physical and chemical properties, including their

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