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Fabrication and investigation of Co_3O_4 films deposited by chemical bath deposition

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Co_3O_4 films have been deposited onto glass substrates by chemical bath deposition for different deposition time. The deposited films appear blackish. The thicknesses of the Co_3O_4 samples have been determined by ellipsometer measurements. The films have been examined to evaluate the structural and optical properties. X ray diffraction spectra have revealed that the films are polycrystalline with face-centered-cubic phase. The structural and surface morphological properties of the films were studied using X-ray diffraction (XRD), field emission scanning electron microscopy (FESEM) and energy dispersive X-rayspectrometer (EDX). The optical band gap values of the films were evaluated from the absorbance measurements in the wavelength range 190–3300 nm.

Biography

Esra Zeybekoğlu is a PhD student and currently works as Research Assistant in Physics Department at Anadolu University, Turkey for four years. Her studies have focused on the production of the semiconducting films and the investigation of the structural optical and electrical properties of the samples using characterization techniques.

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