Short Communication

Electrodeposition and Characterization of Mesoporous Nanostructured Cobalt Films

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In this article we demonstrate a simple and versatile technique for the fabrication of mesoporous films of cobalt using Brij-76 surfactant which is used as the template for exhibiting the three-dimensional highly ordered deposited films. It was found that the films containing arrays are closed and packed in a uniform size and spherical holes. Here the mesoporous cobalt films were prepared electrochemically. Also, different potential techniques were used for investigation and description the properties of the plated mesopores of Co films.

Keywords: Nanostructured, mesoporous, Electrodeposition, Brij76, Cyclic voltammetry.

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