



Electrochemical behavior and Optical properties of Pani/Mn

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Abstract

This study shows Polyaniline (Pani) coatings were electrodeposited on the surfaces of ITO to form new electrodes. Characterizations of Polyaniline (Pani) by electrochemical and spectroscopic techniques are presented. The electrochemical parameters of the deposited Polyaniline were determined using cyclic voltammetry and chronoamperograms. The electrochemical investigation reveals the influence of the dopants on the exchange current density of polyaniline films. UV-Vis spectra of thin films indicate the decrease of the absorbance due to doping. Photoluminescence properties are also discussed.

Keywords: Polyaniline, electrochemical properties, cyclic voltammetry, UV-Vis, Photoluminescence.

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