

Polypyrrole coated cellulosic substrate : synthesized and characterization

A Hamam, D Oukil, A Dib, L Makhloufi, B Saidani

Abstract : In this work, we report the simple chemical polymerization process with Iron (III) chloride anhydrous (FeCl_3) as an oxidant. To obtain thin film of polypyrrole (PPy) deposited onto the electrode of the cellulosic. The morphology of the surface of the PPy/cellulosic films were studied by the cyclic voltammetry (CV), electrochemical impedance spectroscopy (SIE), Fourier-transform infrared spectroscopy (FTIR), profilometer apparatus and scanning microscope (SEM) coupled with energy dispersive X-ray spectrometry (EDX).

Keywords : Polypyrrole, electrode