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Elaboration and characterization of electrodeposited cuprous oxide onto a silver substrate

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Abstract : In this work, cuprous oxide thin films were prepared by using electrodeposition technique at different applied potentials from aqueous alkaline cupric sulfate solution with lactic acid at 70°C onto a silver were investigated. The effects of deposition potential on the electrochemical, surface morphology, structural and, electrical properties of cuprous oxide thin films were investigated. The XRD measurements indicated that all the obtained films display a cuprous oxide cubic structure with a strong preferential orientation of the (111) direction. thin films, electrochemical, cuprous oxide, XRD

Keywords : Thin films, electrochemical, cuprous oxide, XRD