

THE EFFECT OF EG POLYMER ON THE STRUCTURAL AND OPTICAL PROPERTIES THIN FILMS OF IN₂O₃ PREPARED BY SOL-GEL PROCESS

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ABSTRACT. Nanocrystalline In₂O₃ thin films have been deposited on glass substrates by Sol-Gel spin coating technique. DRX, AFM, photoluminescence and UV-vis spectra characterization was used for study the effect of Ethylene glycol (EG) on optical and structural's properties of the films it's chows a best properties at high percentage of EG.

KEYWORDS: *In₂O₃ thin films, sol-gel, optical properties, AFM, EG polymer*