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Optical Characterization of SnO₂ and SnO₂:Co Deposited by Spray Pyrolysis Technique

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Abstract: The optical properties of the pure SnO₂ and SnO₂:Co thin films deposited on a glass substrate by spray pyrolysis technique at a substrate temperature (673±10) K have been investigated by the transmittance spectra at room temperature at wavelength range from (320 to 1100) nm. The optical parameters of the prepared films as transmittance, absorbance, absorption coefficient, optical energy gap, refractive index and extinction coefficient were found.

Keywords: Spray pyrolysis, Tin dioxide, Cobalt, optical properties, Thin film.

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