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Syntheses and study the optical and electrical properties of Polyaniline- Oxalic thin film

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Abstract

Polyaniline-Oxalic have been successfully synthesized by using aniline hydrochloride and ammonium per sulfate in ice path at (0-5)⁰C, and oxalic acids as dopants.

The structural and optical properties of (PAni) are investigated by using UV-VIS spectra photometer, the XRD analysis and FT-IR pattern confirmed the formation of (PAni) .

The UV-VIS spectra show three absorption peaks at (299),(362),(454) nm , the value of E_g is equal to 2.7 eV .The electrical properties are investigated. The experiment results show that the D.C. electrical conductivity of PAni-ox. are ($8.2 \times 10^{-2} \text{ S/cm}$) at R.T.

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