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Synthesis of Polyaniline: Clay-Chain Nanocomposites by Mechanochemical intercalation Method and study it's optical properties

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Abstract

Polyaniline/clay nano composite can be prepared by mechanochemical method. The characteristics of various polyaniline-clay nano composite were investigated using UV- visible, FT-IR, and X-ray diffraction. We have also determined grain size ($D=0.587$ nm). Transmittance measurements in the wavelength range (190-900)nm are used to calculate the refractive index(n), extinction coefficient (k) and the optical band gap E_g^{opt} .

Keywords: polyaniline, clay chain nan composite, mechanochemical method ,grain size.

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ISSN (Paper)2224-719X ISSN (Online)2225-0638

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