

Electrical Investigations of Polyaniline/Graphitic Carbon Nitride Composites Using Broadband Dielectric Spectroscopy

Authors : M. A. Moussa, M. H. Abdel Rehim, G.M. Turkey

Abstract : Polyaniline composites with carbon nitride, to overcome compatibility restriction with graphene, were prepared with the solution method. FTIR and Uv-vis spectra were used for structural conformation. While XRD and XPS confirmed the structures in addition to estimation of nitrogen atom surroundings, the pore sizes and the active surface area were determined from BET adsorption isotherm. The electrical and dielectric parameters were measured and calculated with BDS .

Keywords : carbon nitride, dynamic relaxation, electrical conductivity, polyaniline

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