**Abstract**

Graphene oxide is one of the most promising material for implementation in the next generation electronic devices because of its unique properties.A new series of Nitrogen doped graphene oxide /Nickel oxide nanocomposites are prepared. Graphene oxide is prepared from natural graphite flakes by modified hummersmethod.Nitrogen doped graphene oxide are synthesised by one step hydrothermal process.Nitrogen doped graphene oxide /Nickel oxidenano composites are prepared by chemical precipitation method.The structure of the prepared nanocomposites are investigated by X-Ray diffraction analysis and morphological properties of the prepared nanocomposites are investigated by Field emission scanning electron microscopy (FE-SEM). The presence of functional groups in the synthesized nanocomposites are studied by Fourier transform infrared spectroscopy(FT-IR).The electrochemical activity of the prepared nanocomposites is investigated by cyclic voltammetry(CV). The prepared nanocomposites may be applied forsensing,dye sensitized solar cell and supercapacitor applications.