

Synthesis and Characterization of Nanocomposite Poly (4,4' Methylenedianiline) Catalyzed by Maghnite-H+

Authors : A. Belmokhtar, A. Yahiaoui, A. Benyoucef, M. Belbachir

Abstract : We reported the synthesis and characterization of nanocomposite poly (4,4' methylenedianiline) via chemical polymerization of monomers 4,4' methylenedianiline by ammonium persulfate (APS) at room temperature catalyzed by Maghnite-H+. A facile method was demonstrated to grow poly (4,4' methylenedianiline) nanocomposite, which was carried out by mixing Ammonium Persulfate (APS) aqueous and 4,4' methylenedianiline solution in the presence of Maghnite-H+ at room temperature. The effect of amount of catalyst and time on the polymerization yield of the polymers was studied. Structure was confirmed by elemental analysis, UV vis, RMN-1H, and voltammetry cyclique.

Keywords : characterization, maghnite-h+, polymerization, poly (4,4' methylenedianiline)

Conference Title : ICNSE 2015 : International Conference on Nanomaterials Science and Engineering

Conference Location : Istanbul, Türkiye

Conference Dates : July 29-30, 2015