عنوان مقاله:

Modification of polypyrrole nanostructure using silver oxide nanoparticles

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Zahra Pourshaban Noshahri

Mohammad Porramezan

Zahra Pourhashemi Jirandeh

Hossein Eisazadeh - *Prof. in Chemical Engineering Department of Babol University of Technology, P.O.Box ۴۸۴, ,Babol; Iran*

خلاصه مقاله:

In this study, polypyrrole/Ag2O nanocomposite was synthesized by a chemical oxidative method in the presence of sodium dodecylbenzenesulfonate (DBSNa) as surfactant. Morphology of the nanocomposite was studied by the scanning electron microscopy (SEM). It was shown that the obtained particles have spherical structure. X-ray diffraction (XRD) and fourier transform infrared (FTIR) spectra were used to characterize the structure of the obtained nanocomposites. The results indicate that, the morphology and particle size of product are dependent on the .surfactant and metallic oxide

کلمات کلیدی:

polypyrrole, Ag2O, nanocomposite, morphology, thermal stability