

عنوان مقاله:

Preparation of Palladium nanoparticles from [Pd(aemptrz)Cl₂] by sonochemical method

محل انتشار:

بیستمین کنگره شیمی ایران (سال: 1397)

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خلاصه مقاله:

The 1,2,4-triazoles present antifungal and antibacterial activities and are being widely used as agricultural chemicals and as an important class of compounds for the synthesis of many pharmaceutical drugs [1]. The preparation and characterization of nanosized materials is an important issue in basic science research as well as in industrial applications, as they have their own characteristic electronic, optical, and catalytic properties greatly different from the bulk materials. Palladium oxide plays a central role in many industrial applications and In comparison with other materials, palladium oxide thin and ultrathin films have some advantages at gas sensor fabrication [2]. In this study, nano-structure of [Pd (aemptrz) Cl₂] (1) was prepared by a sonochemical method. The new nano-structure was characterised by scanning electron microscopy, X-ray powder diffraction, IR spectroscopy and elemental analyses. PdO nanoparticles were obtained by calcination of compound 1 at 600° C under air atmosphere and were .(characterised by X-ray diffraction (XRD), TG-DTA, FT-IR and scanning electron microscopy (SEM

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