

عنوان مقاله:

Synthesis and characterization of Cu nanoparticles and studying of their catalytic properties

محل انتشار:

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خلاصه مقاله:

In this paper, we report on the synthesis of Cu nanoparticles through a single-precursor route by controlling the growth temperature. Selective adsorption of oleylamine on various crystal planes may play an important role in the growth process. The understanding of this self-assembling process will help us develop reliable and reproducible methods to synthesis other three dimensional nanostructured architectures and increase the knowledge of self-assembly. The catalytic activities of these nanoparticles of different sizes have been tested on the yield of production of biphenyl from the iodobenzene in reaction. The as synthesized products were characterized by powder X-Ray diffraction (XRD), Scanning electron microscopy (SEM), Energy-dispersive X-ray (EDX) analysis and UV-vis spectra

کلمات کلیدی:

Cu nanoparticles, Oleyl amine, Single precursor, Biphenyl

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