عنوان مقاله:

Agar: a natural and environmentally friendly substrate composed with copper oxide nanoparticles for efficient synthesis of 1,2,3 triazoles

محل انتشار:

بیستمین کنگره شیمی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Nanocatalysts are important substances in chemical processes, energy production, saving energy and prevention of environmental contaminants. By considering naturalpolymers to be the substrate of nanoparticles in nanocatalysts, they play an important role in organic synthesis. Agar, as a natural polymer, is extracted from an agarophyte which attracted a lot of attention due to its unique applications such as food industry, microbiology, pharmacy, cosmetics and dentistry [1]. Due to a large number of hydroxyl groups in their structure, they can be used as an efficient acidic catalyst in organic synthesis or considered a good hostage for metals which can catalyzed a verity of reactions. 1,2,3-triazole are heterocyclic rings formed by the bipolar azide ring and alkin in the presence of a copper catalyst [2]. The new Cu2O/Agar@Fe3O4 nanoparticles was tested in the synthesis of 1,2,3-triazole via a one-pot three-component reaction in this study

کلمات کلیدی: