

## عنوان مقاله:

Copper-diamsar Functionalized SBA-15 as a Novel Nanocatalyst for the Synthesis of Benzothiazole derivatives in water media

## محل انتشار:

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تعداد صفحات اصل مقاله: 4

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## خلاصه مقاله:

Cu(II)-diamsar complex functionalized mesoporous SBA-15 silica supports was employed for the synthesis of benzothiazole heterocycles in water media as a green solvent with excellent yields. The resulted catalyst is extraordinarily stable and inhibits leaching of the metal ion from the SBA-15 support. Furthermore, it showed good heterogeneous catalytic activity in the synthesis of aforementioned heterocycles and also could be recycled from the reaction mixture and used again for 6 times. The nature of the support after the grafting of Cu(II)-diamsar complex on the surface of SBA-15 nanochannels and successful grafting was examined by X-ray diffraction (XRD), (transmission electron microscopy (TEM).

## کلمات کلیدی:

Heterogeneous catalysis; Cu(II)-diamsar complex; benzothiazole

## لینک ثابت مقاله در پایگاه سیویلیکا:

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