

عنوان مقاله:

Novel Organocatalytic activity of L-Histidine@Fe₃O₄ for the synthesis of tetrahydrobenzo[b]pyrans in water

محل انتشار:

ششمین کنفرانس بین المللی شیمی و مهندسی شیمی (سال: 1398)

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خلاصه مقاله:

We report the elaboration of L-Histidinefunctionalized magnetic nanoparticlesthat can act as a new nanomagnetically catalyst. The catalytic performance of L-Histidine@Fe₃O₄ was evaluated in a three-component combination for the synthesis of tetrahydrobenzo[b]pyran derivatives via the condensation reaction of malononitrile, various aromatic aldehydes and dimedone in water. All reactions were completed in short times and all products were obtained in good .to excellent yields. The L-Histidine@Fe₃O₄ could be recovered for 5 times efficiently

کلمات کلیدی:

Magnetic Nanoparticle, Organocatalysis, L-Histidine, Tetrahydrobenzo[b]Pyran

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