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عنوان مقاله:

Efficient Synthesis of Benzo[b]pyrans and Knoevenagel Products Using Magnetically Separable Nano TPPA-IL-Fer*Of

محل انتشار:

دوفصلّنامه تحقيقًات شيمي آلي, دوره 4, شماره 1 (سال: 1397)

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نویسندگان: Arash Ghorbani-Choghamarani - *ilam university*

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خلاصه مقاله:

A simple, efficient, and green practical approach to Knoevenagel condensation of malononitrile and different aldehydes has been developed using an ionic liquid functionalized on FerrOF magnetic nanoparticles as heterogeneous catalyst. This nanostructural catalyst has also been applied for the synthesis of FH-benzo[b]pyran derivatives in water at room temperature in short reaction time. All of the products were obtained in good to excellent .yields. The TPPA-IL-FerOf catalyst was used at least seven times with comparable activities to the fresh catalyst

کلمات کلیدی:

Ionic Liquid, FerOf magnetic nanoparticles, Knoevenagel condensation, fH-benzo[b]pyran

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