

عنوان مقاله:

Cu(II)-Schiff base/SBA-۱۵ as an efficient catalyst for synthesis of decahydroacridine-۱,۸-diones

محل انتشار:

نشریه آسیایی شیمی سبز, دوره 1, شماره 2 (سال: 1396)

تعداد صفحات اصل مقاله: 9

نویسندگان:

Radineh Motamedi - *Department of Chemistry, Payame Noor University, Tehran, Iran*

Ghasem Rezanejade Bardajee - *Department of Chemistry, Payame Noor University, Tehran, Iran*

Somayeh Makenali Rad - *Department of Chemistry, Payame Noor University, Tehran, Iran*

خلاصه مقاله:

Herein, we report a fast synthesis of ۱,۴-dihydropyridines, decahydroacridine-۱,۸-diones by one-pot multi-component reaction of ۱,۳-cyclohexanedione or dimidone, arylaldehydes, and ammonium acetate under solvent-less condition using Cu(II)-schiff base-SBA-۱۵ as a reusable heterogeneous catalyst in high yields. These kinds of catalysts are built from mesoporous silica SBA-۱۵ which was covalently anchored with Cu(II) schiff base complex. The shorter reaction times, good yields, simple work-up procedure and environmentally friendly conditions are the main advantages of this method compared to the last one. This method is also the first example of synthesizing acridines by Cu(II)-schiff base-SBA-۱۵ as an efficient catalyst in solvent-free media which can be valuable to be used or investigated for similar systems. The product was identified by its ¹H NMR, mass and IR spectra, which were compared to those reported previously.

کلمات کلیدی:

Dihydropyridines Acridines Cu(II)-Schiff base/SBA-۱۵ Heterogeneous catalyst-۴,۱

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1747224>

