

عنوان مقاله:

Multi component Reaction of Isoquinoline, Dialkyl acetylenedicarboxylate, Aldehydes and Dimedone Catalyzed by Bio-CuO-NPs

محل انتشار:

دومین کنفرانس بین المللی تحقیقات پیشرو دانشجویان نانو فناوری (سال: 1402)

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نویسنده:

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خلاصه مقاله:

An efficient method is described to generation of pyrido[۲,۱-a]isoquinoline-۳,۴-dicarboxylates via one-pot four-component reaction of dialkyl acetylenedicarboxylate, isoquinoline, aldehydes and malononitrile (or dimedone) catalyzed by CuO-NPs. This reaction is performed in gently conditions with good yield.

کلمات کلیدی:

Pyrido[۲,۱-a]isoquinoline-۳,۴-dicarboxylate; Four-component reactions; Isoquinoline; Dialkyl acetylenedicarboxylate; Huisgen intermediate; Dimedone; CuO-NPs

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