

عنوان مقاله:

Malonic acid as an efficient catalyst for economical synthesis of 12-aryl-tetrahydrobenzo[α]xanthene-11-one derivatives

محل انتشار:

دومین همایش بین المللی افق های نوین در علوم پایه و فنی و مهندسی (سال: 1398)

تعداد صفحات اصل مقاله: 8

نویسنده:

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خلاصه مقاله:

An environmental friendly and solvent-free synthetic route for malonic acid catalyzed one-pot multi-component synthesis of biologically active 12-aryl-WHWUDK\GUREHQ]R> @[DQWKHQH-11-one derivatives has developed. The non-toxic, environmentally benign nature and low-cost catalyst, eco-friendly, easily separated and good to high yields is an option for the clean and simple synthesis of these rings

کلمات کلیدی:

Malonic acid, 12-aryl-WHWUDK\GUREHQ]R> @[DQWKHQH-11-one derivatives, One-pot procedure, Efficient catalyst.

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/980208>

