

عنوان مقاله:

A highly efficient synthesis of biologically active spirooxindole derivatives with MoO₃ as a mild catalyst under solvent-free conditions

محل انتشار:

کنفرانس بین المللی یافته های نوین پژوهشی در علوم، مهندسی و فناوری با محوریت پژوهشهای نیاز محور (سال: 1394)

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خلاصه مقاله:

MoO₃ as an environmentally benign nature catalyst for the multi-component efficient synthesis of biologically spirooxindole derivatives is studied. And we studied three-component, one-pot condensation of isatin/acenaphthequinone, malononitrile and different reagents including 1, 3-dicarbonyl compounds, naphthol and 4-hydroxycumarin under thermal and solvent-free conditions in the presence of MoO₃ as a mild catalyst. solvent-free conditions, short reaction times, good yields, non-toxic, in expensive, simple operational procedures, one-pot, mild, easily separated from the reaction mixture with no column chromatographic separation for the economical synthesis .of these fused biologically compounds are the major advantages of this literature

کلمات کلیدی:

MoO₃, Spirooxindole derivatives, Multi-component reactions, Solvent-free conditions

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