

عنوان مقاله:

Silica Sodium Carbonate as an Effective and Reusable Catalyst for the Three-Component Synthesis of Pyrano Coumarins

محل انتشار:

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خلاصه مقاله:

Silica sodium carbonate (SSC) has been used as a valuable silica-supported catalyst for the preparation of a range of known and novel pyrano coumarins via the three-component reactions of aryl aldehydes, active methylene compound (malononitrile or ethyl cyanoacetate), and hydroxycoumarin (Δ, Y-dihydroxy-F-substituted coumarins or Fhydroxycoumarin). The heterogeneous catalyst showed much the same efficiency when employed in following .reaction runs

كلمات كليدى:

Pyrano coumarins, a, Y-Dihydroxy-F-substituted coumarins, F-Hydroxycoumarin

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