عنوان مقاله:

Design, Characterization and Application of SO۳H-Functionalized Phthalimide as a Highly Efficient Catalyst for the Condensation of Dimedone with Arylaldehydes, β-Ketoesters and Ammonium Acetate

محل انتشار:

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نویسنده:

Zahra Kordrostami - *interest*

خلاصه مقاله:

In this work, SO۳H-functionalizedphthalimide (SFP) as a SO۳H-containing solid acid is prepared by the reaction of phthalimide with chlorosulfonic acid, and characterized by FT-IR, ۱H and ۱۳C NMR, Mass, TG, DTG, XRD and SEM. Then, it is utilized as a highly efficient, heterogeneous and green catalyst for the one-pot multi-component condensation of dimedone with arylaldehydes, β-ketoesters and ammonium acetate under solvent-free conditions to afford polyhydroquinolines in excellent yields and in short reaction times.

کلمات کلیدی:

SO۳H-functionalized phthalimide (SFP), SO۳H-containing solid acid, Dimedone, Arylaldehyde, β-Ketoester, Polyhydroquinoline