

عنوان مقاله:

One-pot synthesis of benzopyrano[2,3-d]pyrimidine derivatives catalyzed by LDHs@Propyl-ANDSA

محل انتشار:

بیست و هفتمین کنفرانس شیمی آلی ایران (سال: 1398)

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خلاصه مقاله:

Development of new MCRs is an exciting research topic in organic chemistry, especially for the synthesis of heterocyclic compounds [1]. Benzopyrano[2,3-d]pyrimidines show interesting features which make them attractive targets for the synthesis via MCRS [2]. Benzopyrano[2,3-d]pyrimidine is a potentially important pharmacophore that exhibits in vivo antitumor activity, cytotoxic activity against cancer cell lines and can cause significant perturbation in cell cycle kinetics [3]. We report herein an efficient and simple synthesis a series of benzopyrano[2,3-d]pyrimidines in high yields via an one-pot, pseudo three component reaction between salicylic aldehydes, malononitrile and secondary amine in the presence of the layered double hydroxides functionalized by 7-aminonaphthalene-1,3-disulfonic acid (LDHs@Propyl-ANDSA), H₂O as green solvent under reflux condition[Fig.1]. Remarkable advantages of the present synthetic strategy over the others are shorter reaction times, higher isolated yields, reuse of catalytic system and simple work up procedure.

کلمات کلیدی:

Malononitril, Salicylaldehyde, N-Methyl pipyrazine

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