# عنوان مقاله:

one-pot green synthesis of derivatives of pyrimido  $[\Delta', \tau' : \Delta, \Delta]$  pyrido  $[\tau, \tau-d]$  pyrimidines catalyzed by boron nitride nanosheets

## محل انتشار:

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### خلاصه مقاله:

In this work, one-pot reaction of r, v-dimethylbarbituric acid, aromatic aldehydes, and ammonium acetate using Boron nitride nanosheets as an efficient and recyclable catalyst has been investigated. While aromatic aldehydes substituted with electron-withdrawing group or none reacted successfully with r, v-dimethylbarbituric acid and ammonium acetate to give new pyrimido[a', r' : a, a]pyrido[r, v-d]pyrimidine derivatives (can be also named as pyrido[r, r-d: a, r-d']dipyrimidines) in high yields over relatively short reaction times, Knoevenagel condensation products are isolated from the reaction mixture using aromatic aldehydes bearing electron-donating substituents. The catalyst could be efficiently used at least four times without substantial reduction in its .catalytic activity. The new products were characterized on the basis of FT-IR, rH NMR, and r \C NMR spectral data

## كلمات كليدي:

Pyrimidopyridopyrimidines, Pyridodipyrimidines, Boron nitride nanosheets

لینک ثابت مقاله در پایگاه سیویلیکا:

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