#### عنوان مقاله:

Three component one-pot synthesis of 4H-benzo-[b]-pyran derivatives using [(diacetoxyiodo)benzene] (DIB) as a hypervalent iodine catalyst

## محل انتشار:

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#### خلاصه مقاله:

The three components one pot synthesis of 2-amino-4H-benzo-[b]-pyran derivatives were obtained in good to excellent yields within short reaction time via the condensation reaction of dimedone, aldehydes and malanonitrile or ethylcyanoacetate using the catalytic amount of [(diacetoxyiodo)benzene] (DIB) as hypervalent iodine in aqueous ethanol under refluxconditions have been discussed. This aqua mediated knoevenagel-cyclocondensation of various aromatic and hetero-aromatic aldehydes along with the aldehydes like arylsulphonyloxybenzaldehyde, arylcarbonyloxybenzaldehyde also leads to the product under the same reaction conditions. High yields, short reaction times, one pot condensation, operational simplicity, easy work-up, and purification of products by non-chromatographic methods are some additional features of the present protocol

# کلمات کلیدی:

4H-benzo-[b]-pyran; hypervalent iodine; aldehydes; dimedone; multi-componentreaction; aqueous alcohol

لینک ثابت مقاله در پایگاه سیویلیکا:

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