

## عنوان مقاله:

Nano Ni: As an efficient and environmentally benign nature catalyst assisted one- pot four-component synthesis of substituted dihydro-2-oxypyrrroles

## محل انتشار:

کنفرانس بین المللی مهندسی معدن، فلزات و مواد (سال: 1394)

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## خلاصه مقاله:

In this protocol, we have reported an efficient, simple and environmentally benign nature methodology for the synthesis of substituted dihydro-2-oxypyrrrole via a one-pot four-component domino condensation of dialkyl acetylenedicarboxylate, formaldehyde and amines (aromatic and aliphatic) under ambient temperature with excellent yields and short reaction times. Nano Zeolite has been used as a mild, economical and environmentally friendly catalyst for preparation of substituted dihydro-2-oxypyrrrole. The environmentally benign nature, simple, inexpensive and non-toxic catalyst, easily separated with no column chromatographic separation, high catalytic activity, highly efficient is an option for the simple synthesis of these rings

## کلمات کلیدی:

Nano Zeolite, Dihydro-2-oxypyrrrole derivatives, Multi-component reaction, Efficient methodology

## لینک ثابت مقاله در پایگاه سیویلیکا:

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