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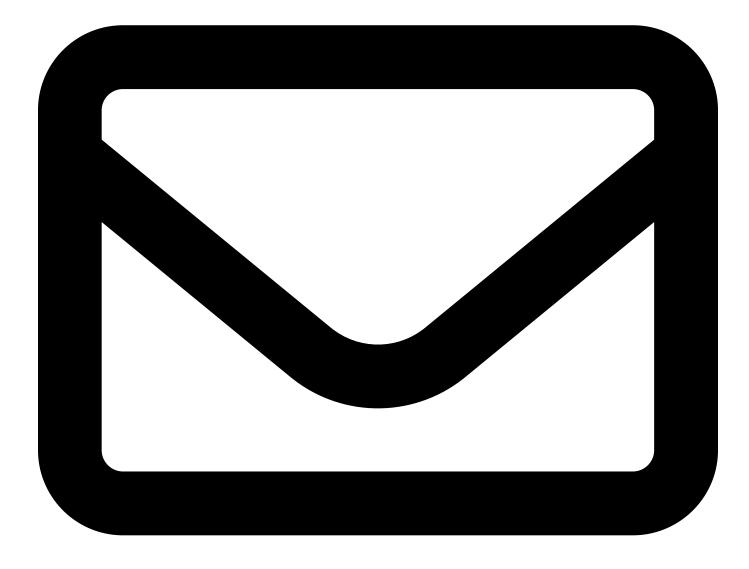
Original Article

Betaine hydrochloride (BHC) catalyzed synthesis of 4-thiazolidinones derivatives

Authors

Betaine hydrochloride (BHC) catalyzed synthesis of 4-thiazolidinones d...

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Abstract

Betaine hydrochloride (BHC), as an ionic salt was found to be an efficient and recyclable catalyst for the onepot synthesis of 4-thiazolidinediones. The methodology of study was achieved by one-pot condensation of aromatic aldehydes, aromatic amine and mercaptoacetic acid in the presence of betaine hydrochloride (BHC) at reflux temperature in ethanol as solvent. The efficiency of Betaine hydrochloride has been compared with all aspects of reaction conditions such as temperature, solvent and amount of the catalyst. This method excludes the use of heavy metal catalyst, tedious work-up and affords excellent yields of product. These advantages makes the technique greener and superior as compare to other reported methods.

Keywords

- Aromatic aldehydes
- Aromatic amines
- <u>Memercaptoacetic acid.</u>
- Betaine hydrochloride (BHC)
- <u>4-Thiazolidinediones</u>

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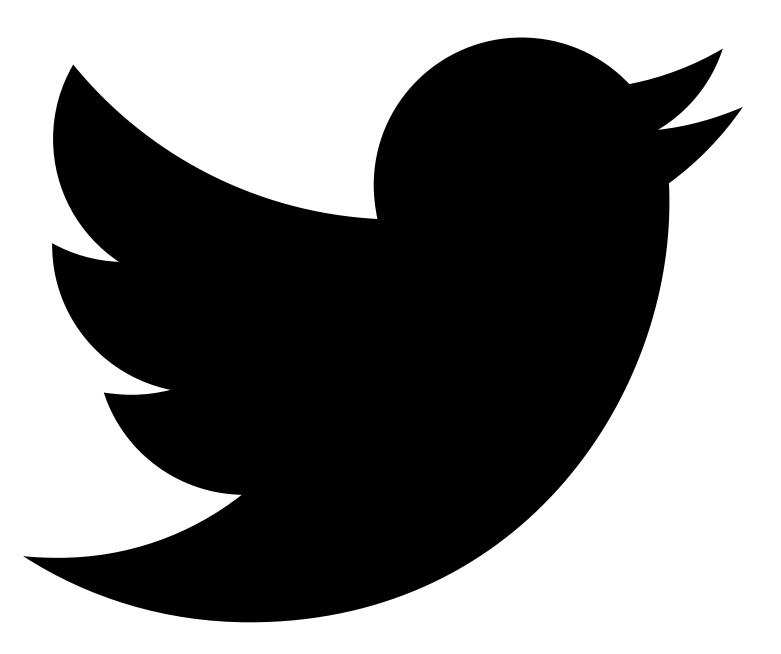
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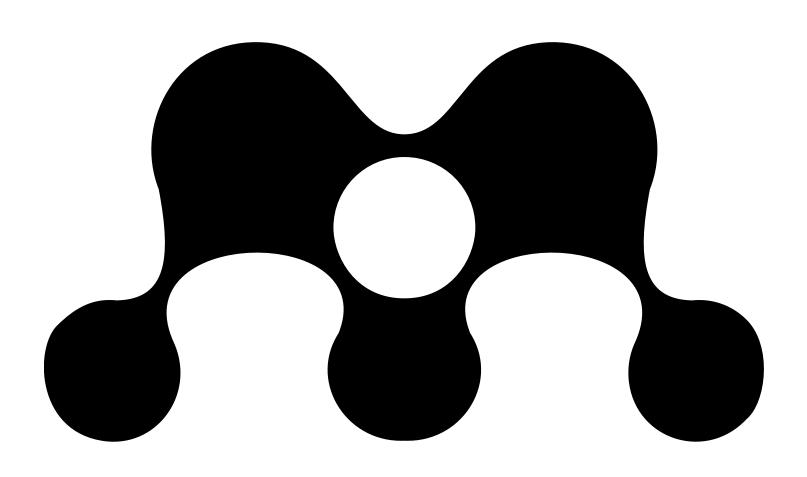
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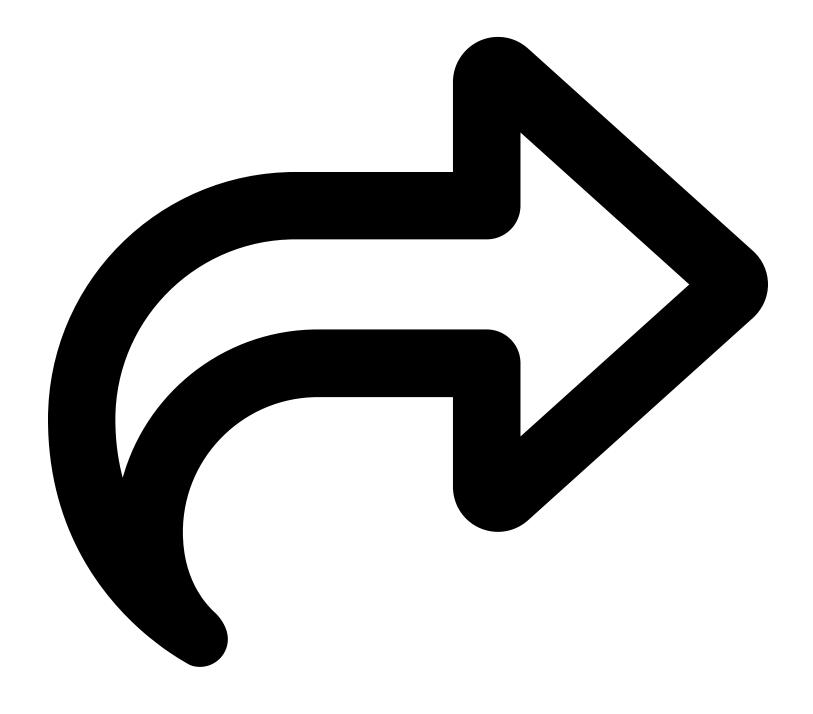


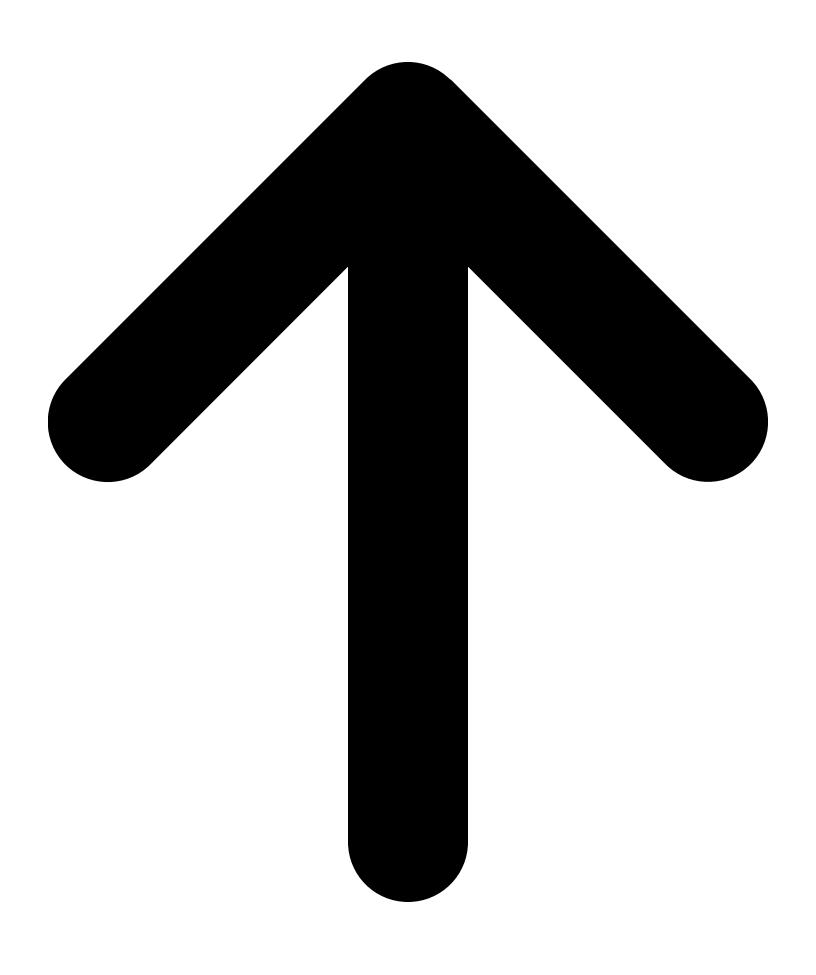






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