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Original article

Cetyltrimethylammonium chloride (CTAC) catalyzed one-pot synthesis of novel coumarin-4*H*-pyran conjugates in aqueous media

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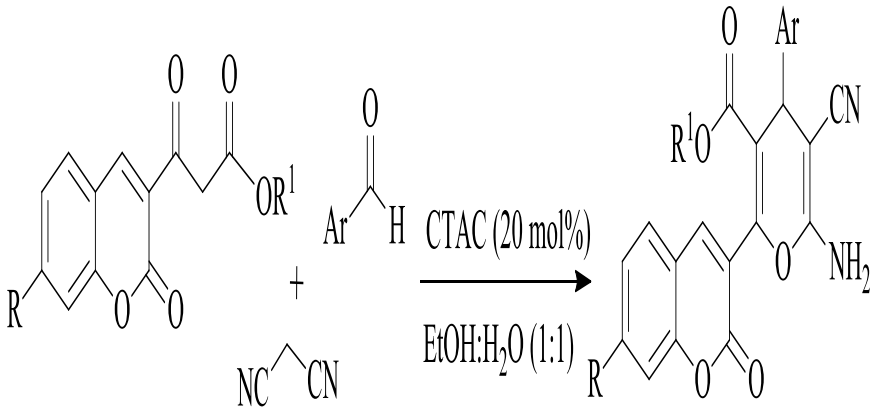
Graphical Abstract



Novel fluorescent coumarin-4*H*-pyran conjugates were achieved by three-component reactions of various beta-ketoesters with aldehydes and malononitrile in aqueous media.

ABSTRACT
Novel fluorescent coumarin-4*H*-pyran conjugates were achieved by three-component reactions of various synthetic *β*-ketoesters with aldehydes and malononitrile in aqueous media. Besides mild reaction conditions, operational simplicity, absence of tedious separation procedures, using of inexpensive and nontoxic commercially available cationic surfactant cetyltrimethylammonium chloride (CTAC) as a catalyst are the prominent advantage of this method.

Keywords: Coumarin 4*H*-Pyran Multicomponent reaction CTAC Aqueous media Surfactant catalyzed