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Facile one pot Synthesis of Fluorescent acridinediones employing nano copper ferrite as reusable catalyst

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Abstract : Copper ferrite nanoparticle–catalyzed efficient one pot synthesis of acridinediones by multicomponent reaction of dimedone, aldehydes, ammonium acetate under solvent free conditions has been investigated. The present method has an advantage of short reaction time, easy to work up procedure and recyclability of catalyst. The obtained products were characterized and their 3D-fluorescence properties were studied.

Key words : Nano copper ferrite catalyst, dimedone, acridinediones, reusability, 3D-fluorescence.

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