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Title:	A green synthesis of thieno[2,3-c]xanthen-6-ones through the tandem photochemical sigmatropic shift and cyclization
Authors:	Khullar, S. (/jspui/browse?type=author&value=Khullar%2C+S.) Mandal, S.K. (/jspui/browse?type=author&value=Mandal%2C+S.K.)
Keywords:	thieno[2,3-c]xanthen-6-one 3-propynyloxychromenone Photoirradiation Sigmatropic shift
Issue Date:	2014
Publisher:	Taylor and Francis Ltd.
Citation:	Green Chemistry Letters and Reviews, 7(2), pp.126-130.
Abstract:	A green and clean route for the synthesis of 5-hydroxy-4-methyl-6H-thieno[2,3-c]xanthen-6-ones (2) has been developed by the photoirradiation of 3-(prop-2-ynyloxy)-2-(thiophen-3-yl)-4H-chromen-4-ones (1). This photoreaction of the 3-propynyloxychromenones being observed for the first time is very interesting and appears to be the result of a tandem sigmatropic shift and cyclization. The structure of 2 has been determined by the spectroscopic (Fourier transform infrared [FTIR], nuclear magnetic resonance [NMR], and mass) and single crystal X-ray crystallographic studies. (Formula presented.).
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