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Title:	Synthesis of O,S-Containing Polycycles via One-Pot Michael Addition-Cycloacetalisation Cascade
Authors:	Bankar, S.K. (/jspui/browse?type=author&value=Bankar%2C+S.K.) Shirke, R.P. (/jspui/browse?type=author&value=Shirke%2C+R.P.) Ramasastry, S.S.V. (/jspui/browse?type=author&value=Ramasastry%2C+S.S.V.)
Keywords:	cascade reactions heterocycles Lewis acids natural products pyranones
Issue Date:	2015
Publisher:	Wiley-VCH Verlag
Citation:	Advanced Synthesis and Catalysis, 357 (14-15)
Abstract:	An efficient diversity-oriented approach for the synthesis of previously unknown di-, tri-, tetra- and spirocyclic pyrano-1,4-dioxinones, pyrano-1,4-dithiinones and pyrano-1,4-oxathiinones from readily available starting compounds has been described. Cascade Michael addition–cycloacetalisation of acetoxy-, alkoxy-, and aryloxy-pyranones and 1,2-dinucleophiles under mild Lewis acidic conditions provides a direct access to oxygen and sulfur-containing complex heterocycles. Mechanistic aspects of the cascade process were elucidated in light of experimental facts. The methodology described herein shows high promise for the synthesis of several bioactive natural products as well as pharmaceutically important compounds.
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