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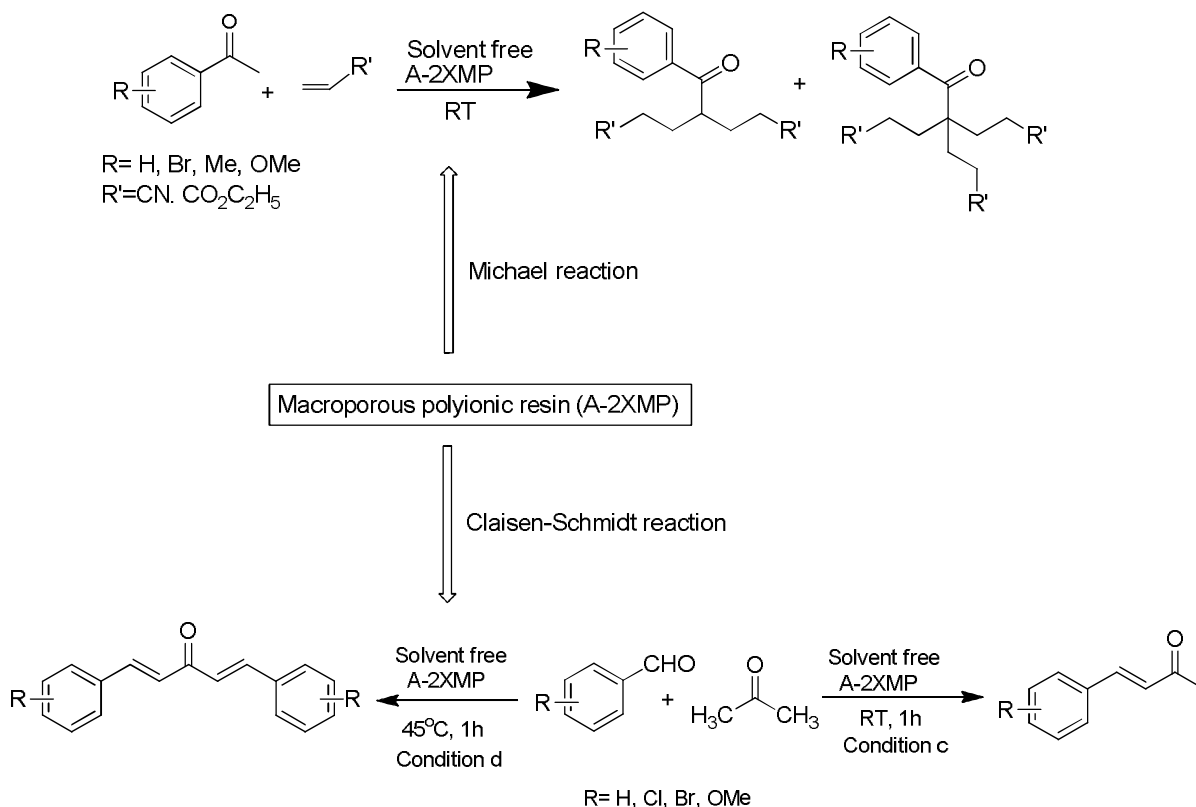
August 2013

## CONTENTS

### Papers

- 1137 **Environmentally benign Michael and Claisen Schmidt reaction of aromatic carbonyl compounds by alkaline polyionic resin**

A regioselective Michael reaction between arylmethyl ketones and  $\alpha,\beta$ -unsaturated compounds has been carried out using basic polyionic resin as a reusable reagent. Moreover, A-2XMP resin has also been applied on Claisen-Schmidt condensations of aromatic aldehydes and ketones (acyclic as well as cyclic) under different reaction conditions yielding dehydrated products.

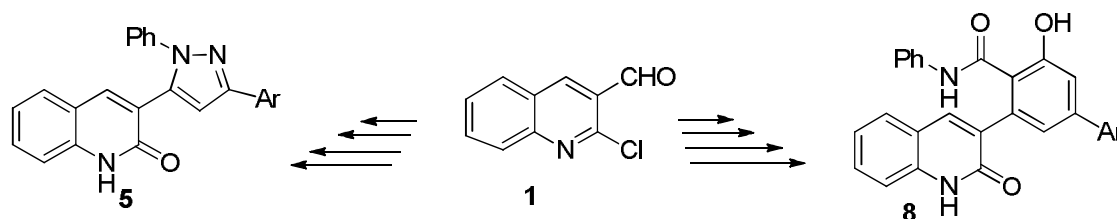


Vikas Jaitak, V K Kaul\* & Pralay Das

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- 1146** An efficient synthesis of quinalone-3-(*N*-phenylpyrazoles) and quinalone-3-cyclohexadienone derivatives

Synthesis of quinalone-3-(*N*-phenylpyrazoles) **5** and quinalone-3-(cyclohexadienone) **8** from 2-chloro-3-quinolinecarboxaldehyde **1** is described.

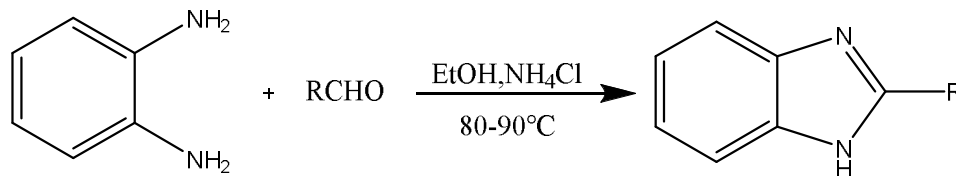


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### Notes

- 1152** A green synthesis of benzimidazoles



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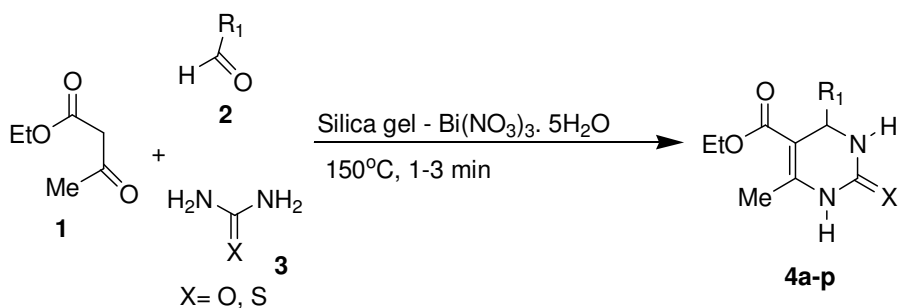
- 1157** Synthesis of 5-arylidene-2,2-dimethyl-1,3-dioxane-4,6-diones and coumarin-3-carboxylic acids via reaction of nitrones and Meldrum's acid

A variety of nitrones have been synthesized and reacted with Meldrum's acid without the aid of any catalysts. Selectively, 5-arylidene-2,2-dimethyl-1,3-dioxane-4,6-diones have been obtained with excellent yields under environmentally benign reaction conditions. Whereas, nitron of salicylaldehydes with Meldrum's acid afford cyclized products *i.e.* coumarin-3-carboxylic acids.

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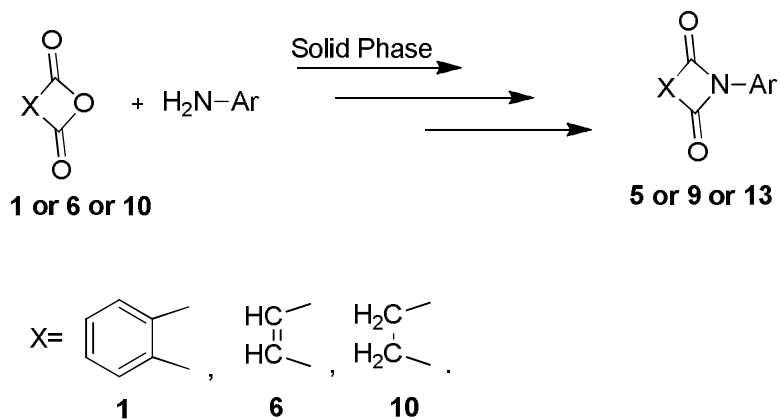
- 1161** **Silica gel supported bismuth nitrate pentahydrate: A highly active catalyst under solvent free conditions towards the synthesis of dihydropyrimidin-2(1*H*)-ones and their sulphur analogues** Silica gel supported bismuth nitrate pentahydrate has been shown to be an efficient catalyst for the Biginelli reaction. The main advantages of the catalyst include rapid reaction in 1-3 minutes and high yield of the products.



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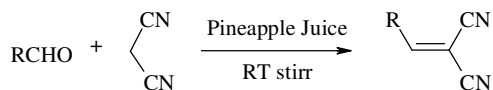
- 1166** **A facile and green synthesis of *N*-substituted imides** A facile, green and solid-phase synthesis of *N*-substituted imides has been reported.



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- 1172 Eco-friendly and economic method for Knoevenagel condensation by employing natural catalyst** A simple, eco-friendly and economic method for Knoevenagel condensation of substituted aromatic as well as heteroaromatic aldehydes with malononitrile catalyzed by pineapple juice at room temperature in the absence of any organic solvent is described.



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- 1176 Synthesis and antimicrobial activities of some new 1,2,4-triazole derivatives** The synthesis and antimicrobial activities of some new triazole derivatives with biologically active sulphonamide moiety at the 3<sup>rd</sup> position is reported here. All the compounds have been screened for antimicrobial activities against *Escherichia coli*, *Bacillus cirroflagellosus*, *Aspergillus niger* and *Colletotrichum capsici*.

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