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Samar A Abubshait

Chemistry Department, College of Science, Imam Abdulrahman Bin Faisal University, P.O. Box 1982, Dammam-31441, Saudi Arabia

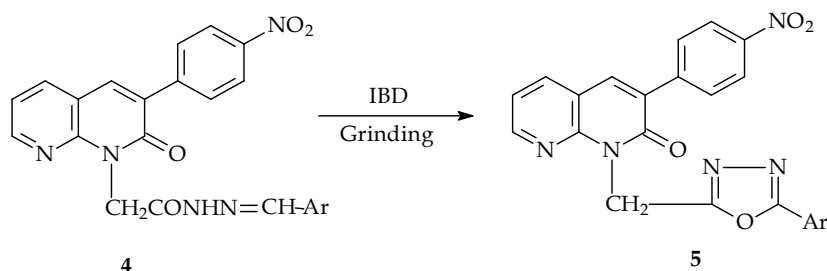
- 649 **Piperidine, an efficient base catalyst for the one-pot synthesis of 3,4-dihydropyrano[3,2-*c*]chromene derivatives**

Sharmin Irani, Malek Taher Maghsoodlou* & Nourallah Hazeri

Chemistry Department, The University of Sistan and Baluchestan, P.O. Box 98135-674, Zahedan, Iran

- 656 **Hypervalent iodine mediated solid state synthesis and biological activity of some new 1-[(5-aryl-1,3,4-oxadiazol-2-yl)methyl]-3-(4-nitro-phenyl)-1,2-dihydro-[1,8]naphthyridin-2-ones**

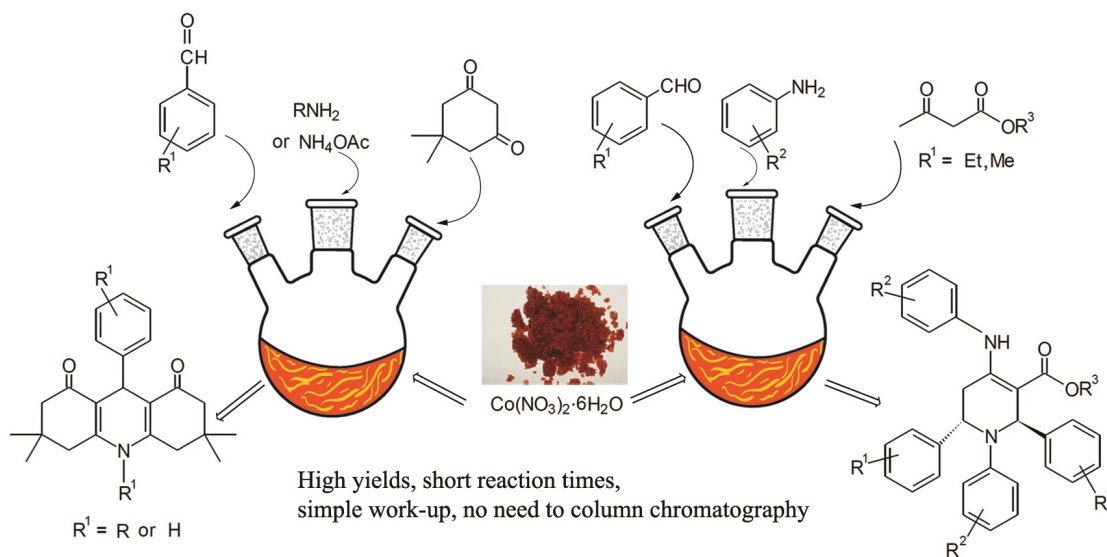
A convenient and eco-friendly protocol has been described for the synthesis of 1-[(5-aryl-1,3,4-oxadiazol-2-yl)-methyl]-3-(4-nitrophenyl)-1,2-dihydro-[1,8]naphthyridin-2-ones **5** by the oxidation of *N*'1-arylmethylene-2-[3-(4-nitrophenyl)-2-oxo-1,2-dihydro-[1,8]naphthyridin-1-yl]-ethanohydrazides **4** with iodobenzene diacetate (IBD) in the solid state at RT.



K Mogilaiah*, D Hari Prasad, A Nageswara Rao, S Jyothi & H Ramesh Babu

Department of Chemistry, Kakatiya University, Warangal 506 009, India

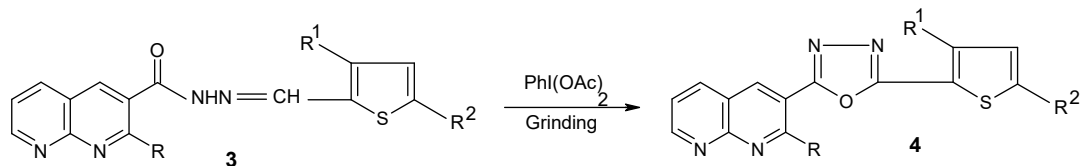
- 663 Cobalt (II) nitrate hexahydrate, as an efficient catalyst for the synthesis of highly substituted piperidines and 1,8-dioxodecahydroacridine derivatives**
- A convenient and practical methodology for the one pot, five component synthesis of highly substituted piperidines has been developed *via* the condensation between arylaldehydes, amines and β -ketoesters in the presence of a catalytic amount of cobalt(II) nitrate hexahydrate at room temperature. In addition 1,8-dioxodecahydroacridine derivative has been synthesised *via* the reaction between arylaldehydes, amines/ammonium acetate and dimedone in the presence of cobalt(II) nitrate hexahydrate as an efficient catalyst.



Mehrnoosh Kangani, Nourallah Hazeri* & Malek-Taher Maghsoodlou

Department of Chemistry, The University of Sistan and Baluchestan, P.O.Box 98135-674, Zahedan, Iran

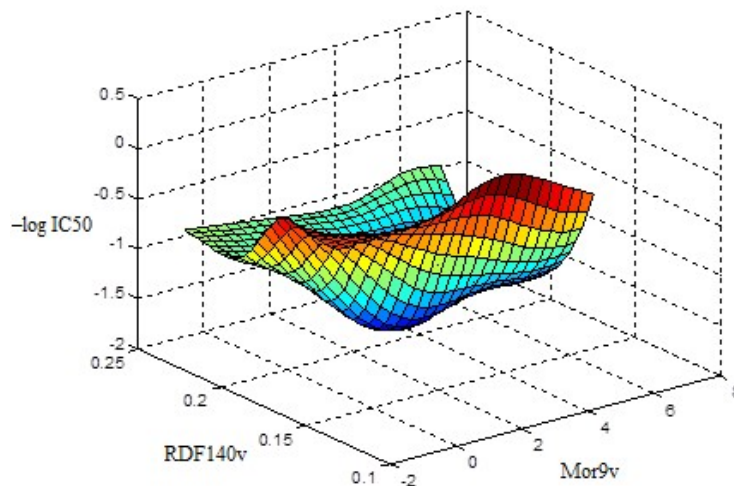
- 670 Green synthesis, antibacterial and anti-inflammatory activities of 2-(2-substituted[1,8]naphthyridin-3-yl)-5-(substituted-2-thienyl)-1,3,4-oxadiazoles**
- An efficient and mild method for the synthesis of 2-(2-substituted[1,8]naphthyridin-3-yl)-5-(substituted-2-thienyl)-1,3,4-oxadiazoles **4** is reported by the oxidation of the corresponding N³-[1-(substituted-2-thienyl) methyldene]-2-substituted[1,8]naphthyridine-3-carbohydrazides **3** with iodobenzene diacetate in solid state.



K Mogilaiah*, Ch Venkanna, A Nageswara Rao & H Ramesh Babu

Department of Chemistry, Kakatiya University, Warangal 506 009, India

677 **Linear and non-linear QSAR models on platinum (II) anticancer drugs with N-donor ligands**



Robabeh Sayyadi Kord Abadi*, Asghar Alizadehdakhel & Fereshteh Moosapour

Department of Chemistry, Rasht Branch, Islamic Azad University, Rasht, Iran

Authors for correspondence are indicated by (*)
