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641 Synthesis, antimicrobial and anticancer activities of some 2-thiohydantoin derivatives

Samar A Abubshait

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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 [1,8]naphthyridin-2-ones

Hypervalent iodine mediated solid state synthesis A convenient and eco-friendly protocol has been described for the and biological activity of some new 1-[(5-aryl-1,3,4- synthesis of 1-[(5-aryl-1,3,4-oxadiazol-2-yl)-methyl]-3-(4-nitrophenyl)oxadiazol-2-yl)methyl]-3-(4-nitro-phenyl)-1,2-dihydro- [1,8]naphthyridin-2-ones 5 by the oxidation of N'1arylmethylene-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.

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663 piperidines and derivatives

Cobalt (II) nitrate hexahydrate, as an efficient A convenient and practical methodology for the one pot, five catalyst for the synthesis of highly substituted component synthesis of highly substituted piperidines has been 1,8-dioxodecahydroacridine 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 1,8dioxodecahydroacridine 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.

RNH₂ or NH₄OAc
$$R^1 = Et$$
, Me

High yields, short reaction times, simple work-up, no need to column chromatography

 $R^1 = R$ or H

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670 (substituted-2-thienyl)-1,3,4-oxadiazoles

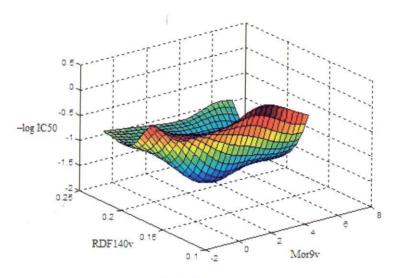
Green synthesis, antibacterial and anti-inflammatory An efficient and mild method for the synthesis of 2-(2activities of 2-(2-substituted[1,8]naphthyridin-3-yl)-5- substituted[1,8]naphthyridin-3-yl)-5-(substituted-2-thienyl)-1,3,4-oxadiazoles 4 is reported by the oxidation of the corresponding N'3-[1-(substituted-2-thienyl)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

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



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