

# European Journal of Chemistry

An International Open Access Journal

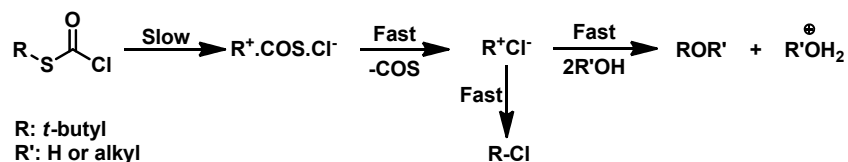
## Graphical Contents

Volume 3, Issue 3, 30 September 2012

European Journal of Chemistry 3 (3) (2012) 267-272

### Correlation of the rates of solvolysis of *tert*-butyl chlorothioformate and observations concerning the reaction mechanism

Jin Burm Kyong, Yelin Lee, Malcolm John D'Souza, Brian Patrick Mahon, and Dennis Neil Kevill



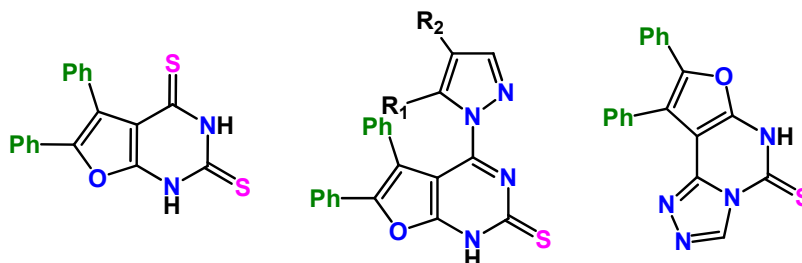
The ionization ( $S_N1$ ) solvolysis of *tert*-butyl chlorothioformate (1) is probably a consequence of a concerted ionization-fragmentation having an appreciable internal driving force and a lower demand for assistance from nucleophilic solvation.

$$\log(k/k_0) = 0.13 N_T + 0.80 Y_{Cl} - 0.03; r = 0.989$$

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### Synthesis of some new pyrazolofuroprymidinethiones and triazolofuroprymidinethiones

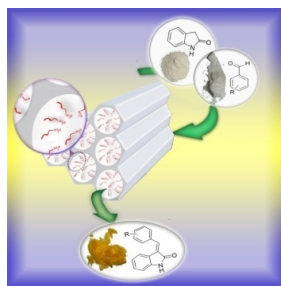
Mohamed Abdel Megid Abdel-Hamid, Azza Mohamed Elkazak, Magdy Hamed Sead and Osama Farouk Mohamed



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### Application of sulfonic acid functionalized nanoporous silica (SBA-Pr-SO<sub>3</sub>H) in the solvent free synthesis of (*E*)-arylidene-1,3-dihydroindole-2-ones

Parisa Gholamzadeh, Ghodsi Mohammadi Ziarani, Alireza Badiie, Zohreh Bahrami

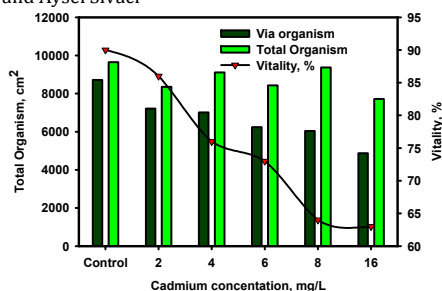


An efficient and green condensation reaction was performed for the synthesis of (*E*)-arylidene-1,3-dihydroindole-2-ones using heterogeneous nanoporous acid catalyst of SBA-Pr-SO<sub>3</sub>H with pore size 6 nm in solvent free condition.

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**Cadmium effects on total individual numbers, species diversity and pigments content of epiphytic diatoms growing on *Myriophyllum spicatum* L.**

Ridvan Erdal Sivaci and Aysel Sivaci

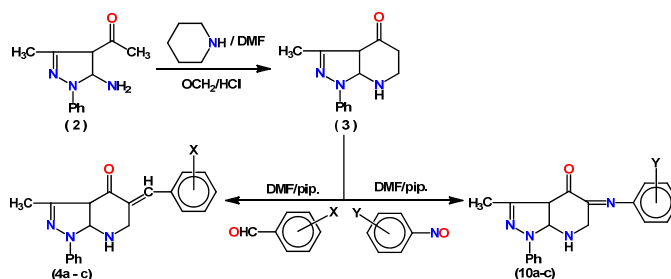


Depending on the increase in cadmium concentration, total number of organisms and % vitality of epiphytic diatoms growing on *Myriophyllum spicatum* L. were decreased.

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**Synthesis and studies of pyrazolo[3,4-*b*]piperidin-4-one derivatives**

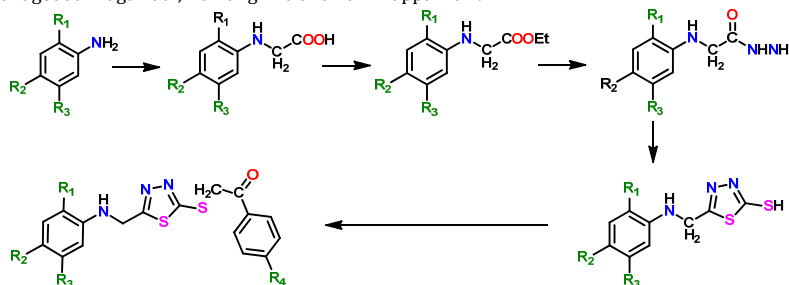
Hussain Ali Soleiman, Ali Kamel Khalafallah and Hana'a Abd-Ellatif



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**Synthesis, characterization and molecular docking studies of novel *S*-substituted phenacyl-1,3,4-thiadiazole-thiol derivatives as antimicrobial agents**

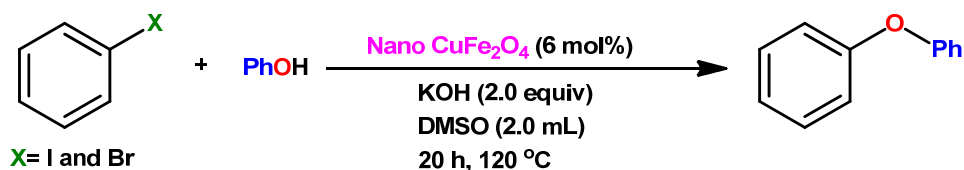
Shashidhar Kerur, Kallanagouda Alagawadi, Hailiang Zhu and Fakkirappa Manvi



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**Recyclable and reusable nano-CuFe<sub>2</sub>O<sub>4</sub> catalyzed C-O cross-coupling**

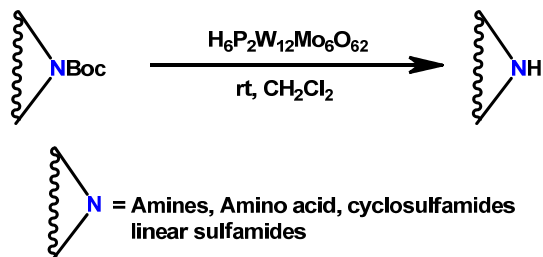
Venkanna Avudoddi, Vinod Kumar Goud Palle and Venkateshwar Rao Pallapothula



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### Efficient deprotection of Boc in amines and sulfamides using Dawson heteropolyacid catalyst

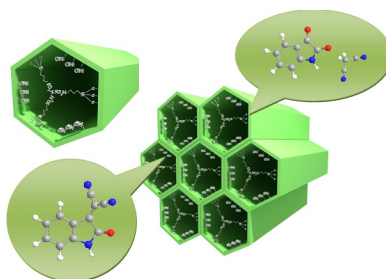
Roubila Belghiche, Zinelaabidine Cheraïet, Malika Berredjem, Mostefa Abbessi and Nour-Eddine Aouf



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### Knoevenagel condensation of isatins with malononitrile/ethyl cyanoacetate in the presence of sulfonic acid functionalized silica (SBA-Pr-SO<sub>3</sub>H) as a new nano-reactor

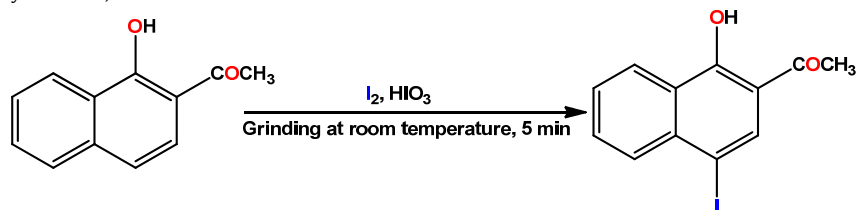
Negar Lashgari, Ghodsi Mohammadi Ziarani, Alireza Badii and Parisa Gholamzadeh



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### Selective iodination of 2-acetyl-1-naphthol using iodine and iodic acid under solvent-free grinding technique

Sainath Zangade, Shyam Mogle, Avinash Shinde and Yeshwant Vibhute

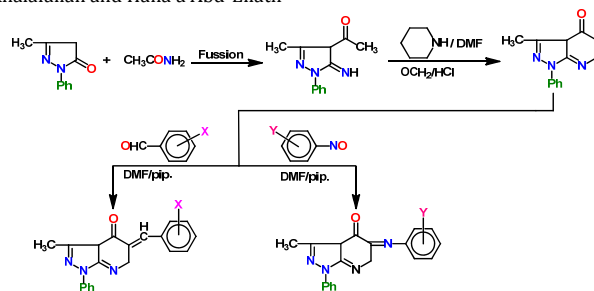


Selective iodination of 2-acetyl-1-naphthol using iodine and iodic acid under solvent-free grinding technique

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### Synthesis and studies of pyrazolo[3,4-b]pyridin-4-one derivatives

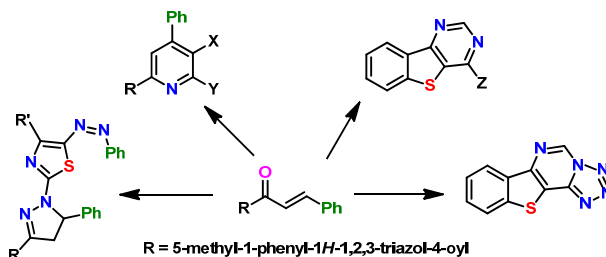
Hussain Ali Soleiman, Ali Kamel Khalafallah and Hana'a Abd-Ellatif



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### Synthesis of 5-arylazothiazoles, pyridines and thieno[2,3-*b*]pyridines derivatives containing 1,2,3-triazole moiety

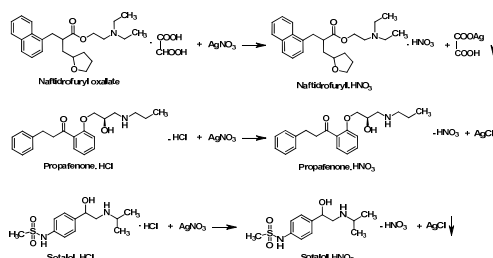
Abdou Osman Abdelhamid, Nadia Abdelhamid Abdel-Riheem, Tamer Tawhid El-Idreesy and Huda Refat Mahmoud Rashdan



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### Conductometric titration method for determination of naftidrofuryl oxalate, propafenone HCl and sotalol HCl using silver nitrate

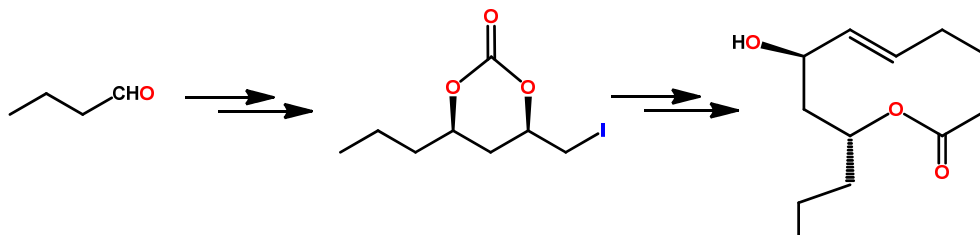
Magda Mohamed Ayad, Hisham Ezzat Abdellatef, Mervat Mohamed Hosny and Yassmin Ahmed Sharaf



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### A simple formal stereoselective synthesis of Herbarumin III

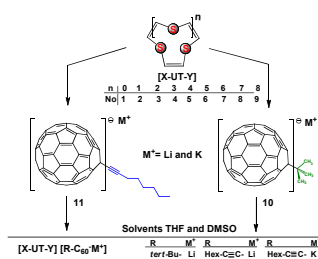
Nagendra Siddavatam, Krishnaiah Martha, Krishna Reddy Vanka and Biswanath Das



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### Theoretical free energies of electron transfer, electrochemical properties, electron transfer kinetic and quantitative structural relationships studies of alkynylidihydrofullerene in [X-UT-Y][R-C<sub>60</sub>-M<sup>+</sup>] supramolecular complexes

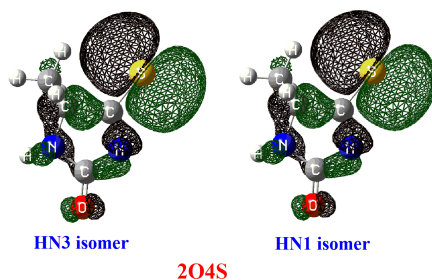
Avat Arman Taherpour, Masomeh Tayebi-Suraki and Nosratollah Mahdizadeh



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**Theoretical density functional study of gas-phase tautomerization and acidity of 5-methylhydantoin and its thio derivatives**

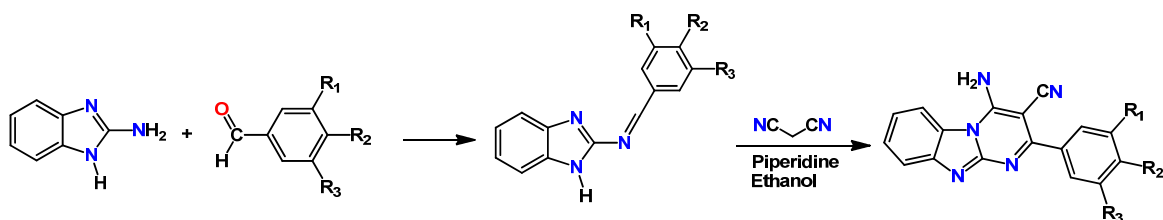
Zaki Sulieman Safi



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**Anticancer activity studies of some cyclic benzimidazole derivatives**

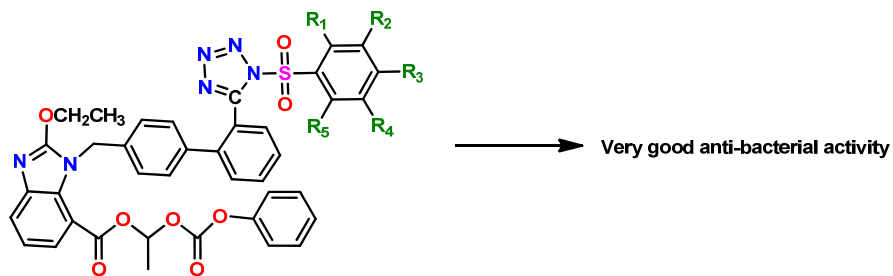
Ali El-Shekeil, Abeer Omer Obeid and Sama Al-Aghbari



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**Synthesis of some novel benzimidazole derivatives and its biological evaluation**

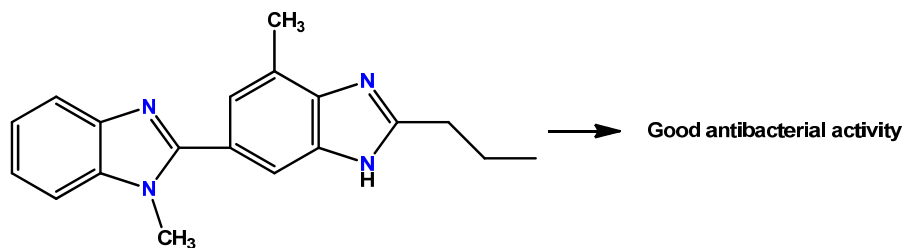
Doddarasinakere Kempaiah Ravishankara and Paduvalahippe Gowdegowda Chandrashekara



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**Synthesis and characterization of 1'-benzyl-1,4'-dimethyl-2'propyl-1H,1'H-2,6'-dibenzimidazole derivatives and their antibacterial activity studies**

Doddarasinakere Kempaiah Ravishankara and Paduvalahippe Gowdegowda Chandrashekara



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**The chemistry of group-VIb metal carbonyls**

Manish Kaushik, Ayodhya Singh and Munesh Kumar

Substitution Reactions of Group VIb Metal Carbonyls with monodentate ligand L

