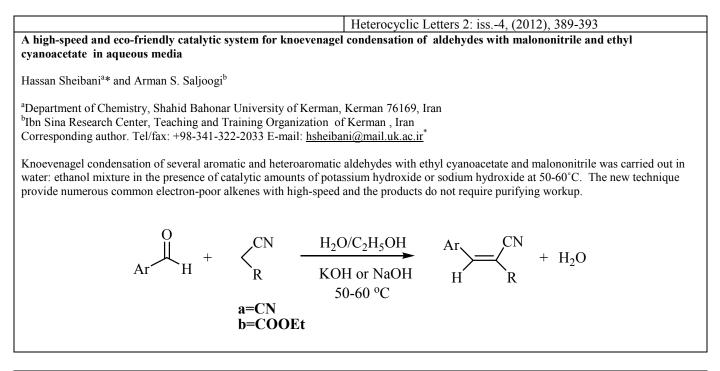
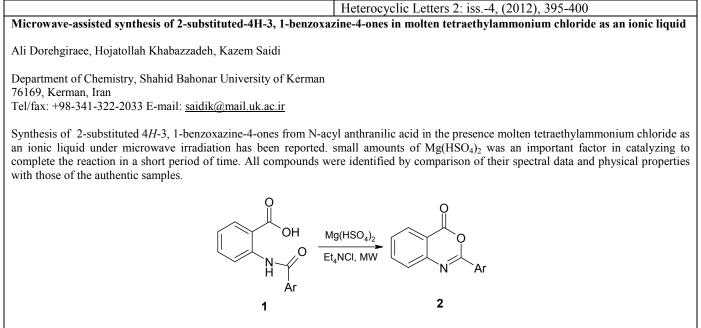
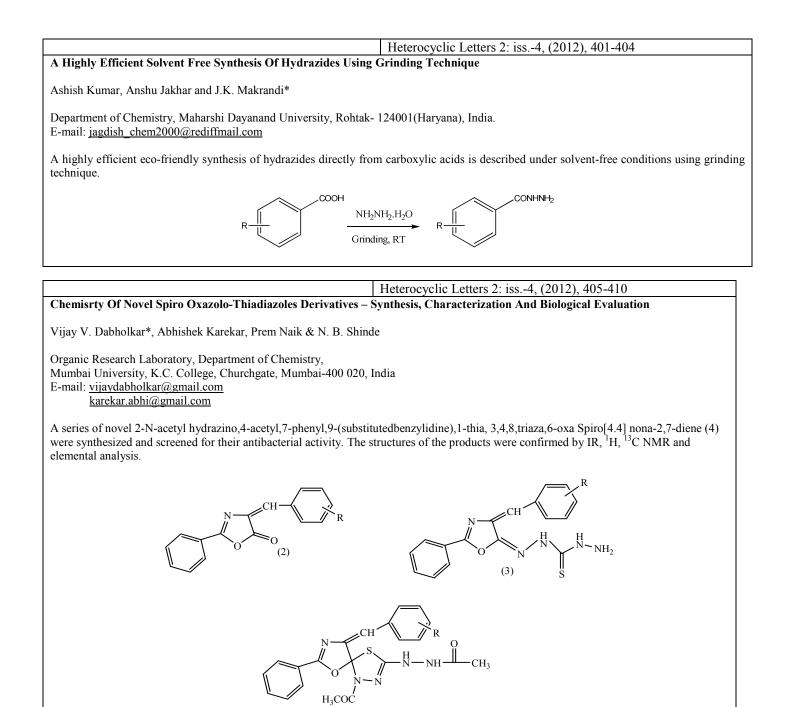
#*L* http://heteroletters.org

ISSN: 2231 – 3087(print) / 2230 – 9632 (Online) Vol. 2: (4), 2012, 380-387

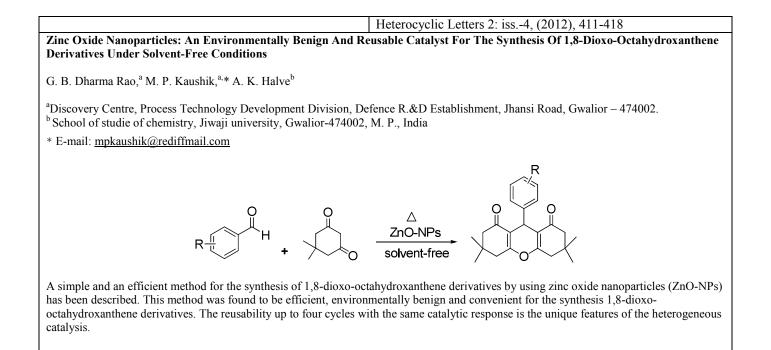
Graphical Abstract







(4)



Heterocyclic Letters 2: iss.-4, (2012), 419-428

Synthesis, Spectral Studies, And Antimicrobial Activity Of Metal Complexes Of Schiff Bases

GajenderaSingh^a*, Ravi Kant^b, Preeti Chaudhary^a, Manju Yadav ^c& Rishi Pal Singh^c

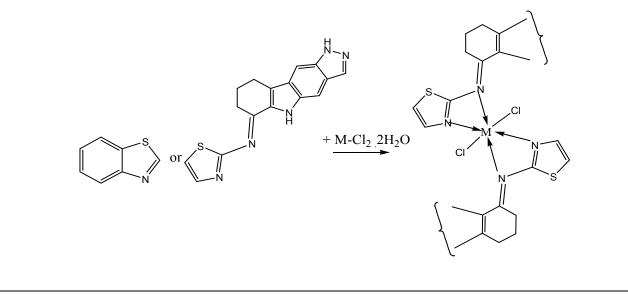
a. Department of Chemistry, Ramjas College, University of Delhi, Delhi-110007, India

b. Department of Chemistry, Zakir Husain College, University of Delhi, Delhi-110002, India

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Microwave-assisted synthesis and characterization of the tin and cadmium complexes are reported. Octahedral complexes was synthesized by the reaction of (E)-N-(8,9-dihydropyrazolo[4,3-b]carbazol-6(1H,5H,7H)-ylidene)thiazole. The complexes so formed were characterized by various physicochemical studies. Ligands acts as bidentate towards metal ion via nitrogen donor sites. Elemental analysis and NMR spectral data of the ligands with their complexes agree with their proposed structures. The anti-microbial activities of the ligands and their corresponding tin(II) complexes have been screened against various strains of bacteria and fungi.



Heterocyclic Letters 2: iss.-4, (2012), 429-436Synthesis And Antitubercular Activity Of Some Thiazolidinone Derivatives Incorporating With Phenothiazine MoietyNareshvarma Seelam* a), S. P. Shrivastava^{b)}, S. Prasanthi^{a)}a) Department of Chemistry, K. L. University, Vaddeswaram, Guntur, A.P-India-522502b) Heterocyclic Research Laboratory, Department of Chemistry, Dr. H. S. Gour Central University, Sagar, M.P, India-470003E-mail: utd_naresh@yahoo.co.inA new class of Phenothiazine derivatives have been synthesized and evaluate their biological activity as an antitubercular agents. In view of the all the results we concluded that some of these are having promising activity comparing with standard drugs. (-) (-) (-)<

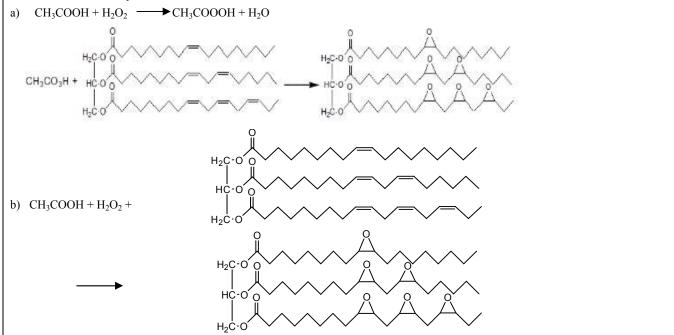
Comparison Of Usual And In Siute Routes For Soybean Oil Epoxidation

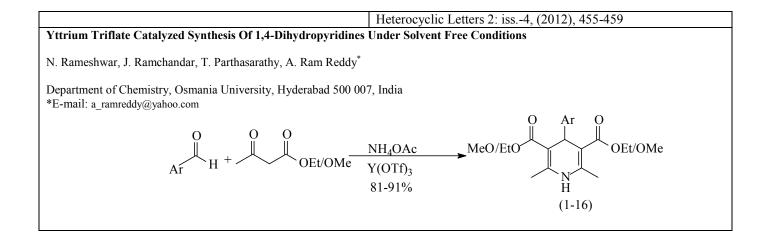
Safieh Heidarzadeh Rizi¹, Abolfazl Semnani^{*1}, Ahmad Reza Momeni¹, and Hamid Shakoori Langeroodi²

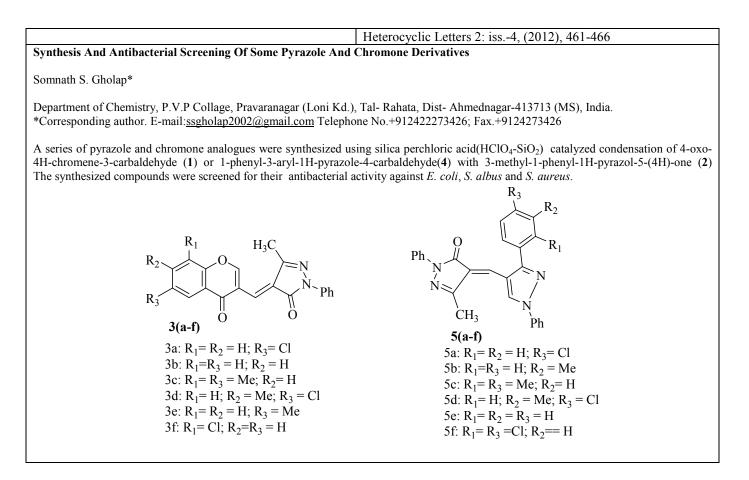
1. Department of Chemistry, Faculty of Sciences, University of Shahrekord, Shahrekord, Iran.

2. Barzin Sepand Sepahan Company, Dehagh Industrial City, Isfahan, Iran.

The epoxidation reaction of soybean oil has been followed in two different conditions. Initial preparation of peracid followed by its addition to the oil, and in situe production of peracid are the two routes. Based on the obtained results, the advantages of in situe method relative to normal route have been proved







 Heterocyclic Letters 2: iss.-4, (2012), 467-478

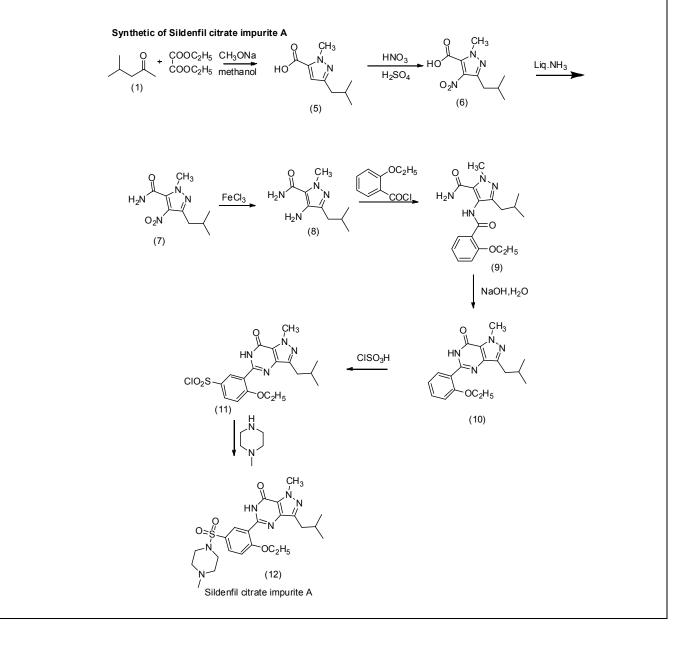
 Process for preparation of 5-(2-ethoxy-5-((4-methylpiperazin-1-yl) sulfonyl) phenyl)-3-isobutyl-1-methyl-1h-pyrazolo [4, 3-d]

 pyrimidin-7(6h)-one (sildenafil citrate impurity).

Dr.Piyush V Patel*, Dr.Narendra Joshi, Dharmesh P Panchal

Amoli Organics Pvt. Ltd. Plot No.422, 432, Village-Luna, Taluka-Padra.Baroda-391440. Corresponding author: Phone: + 91-9978904978,E-mail:piyush.patel@amoliindia.com

The synthesis of piperazin derivative 5-(2-ethoxy-5-((4-methylpiperazin-1-yl) sulfonyl) phenyl)-3-isobutyl-1-methyl-1H-pyrazolo [4, 3-d] pyrimidin-7(6H)-one (Sildenafil citrate impurity) was successfully prepared and the synthesized compound have been characterized. An improved cost-effective and impurity-free process for Sildenafil citrate (1) suitable for large-scale production is described here by addressing various process development issues.



	Heterocyclic Letters 2: iss4, (2012), 4/9-484	
Synthesis And Evaluation Of 2-Benzothiazole Formamidoximes As Novel Class Of Cytotoxic Agents		
Lena Golomba, Elina Jaschenko, Anita Gulbe, Irina Shestakova, <u>Edgars Abele</u>		
Latvian Institute of Organic Synthesis, 21 Aizkraukles Street, Riga, LV-1006, Latvia,		
E-mail: <u>abele@osi.lv</u>		
Synthesis of 2-pyridine, 2-thiazole and 2-benzothiazole substituted formamidoximes from corresponding amines in the system DMF-DMA /		
	compounds towards HT-1080 (human fibrosarcoma), MG-22A (mouse	
against HT-1080 and MG-22A cancer cell lines.	es was presented. 2-Benzothiazole formamidoxime exhibit high activity	
against H1-1080 and MO-22A cancel cell lines.		
N 1) DMF	-DMA N	
$R+$ NH_2	\rightarrow R+ \searrow NOH	
S' = 2 NH ₂ C)HHCl S' H	

REVIEWS

	Heterocyclic Letters 2: iss4, (2012), 485-514
1,3-Dipolar Cycloadditions Approach To Bioactive Spiroheterocyclic Compounds	
Essam M. Hussein	
Department of Chemistry, Faculty of Science, Assiut <u>e-mail: essam.hussein78@yahoo.com</u>	University, Assiut 71516, Egypt
This review describes 1) general methods for generati	Irally occurring substances characterized by highly pronounced biological properties. ion and preparation of most important 1,3-dipoles such as nitrones, nitrile oxides and of synthetic applications of 1,3-dipolar cycloaddition reactions to bioactive

 Heterocyclic Letters 2: iss.-4, (2012), 515-540

 Synthesis, Reactions And Biological Activity Of Derivatives Of Oximes Of Six-Membered Oxygen Heterocycles

Edgars Abele

Latvian Institute of Organic Synthesis, 21 Aizkraukles Street, Riga, LV-1006, Latvia

Literature data on the synthesis and structure of oximes of six-membered oxygen heterocycles with one heteroatom were reviewed. Synthesis of novel heterocycles from oximes of six-membered oxygen heterocycles was described. Biological activity of these oximes was also reviewed.

