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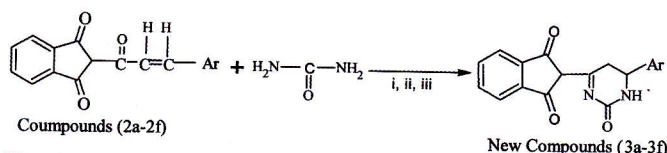
NUMBER 01

JANUARY 2023

CONTENTS

Papers

- 11** **Synthesis, characterization, antimicrobial and antitubercular activity of some new pyrimidine derivatives** New substituted 2-oxopyrimidines have been synthesized from the chalcones linked *via* indane-1,3-dione moiety.

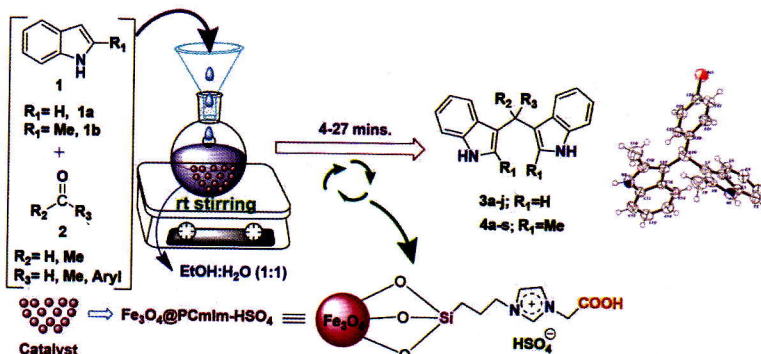


Compound Code	3a	3b	3c	3d	3e	3f
Ar-						

Siddharth Desai*, Girija Sastry & Kishore Singh Chatrapati

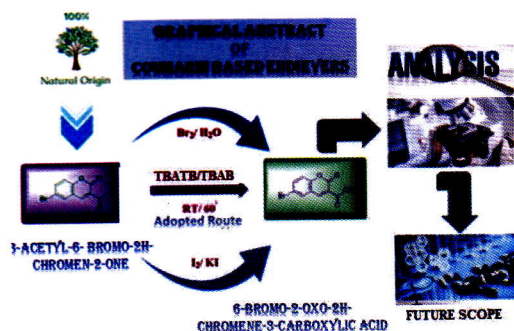
Department of Pharmaceutical Chemistry, Rajiv Memorial Education Society's College of Pharmacy, Kalaburagi, Karnataka 585 102, India

- 16** **Fe₃O₄ supported acidic ionic liquid: An efficient and recyclable magnetic nanoparticles catalyst for one-pot synthesis of Bis(indolyl)methanes** The method of synthesis Bis(indolyl)methanes using a magnetically retrievable acidic ionic liquid catalyst is efficient and environment friendly.



Jims World Star Rani, Geetmani Sing Nongthombam, Chingrishon Kathing, Ridaphun Nongrum, George Kupar Kharmawlong & Rishanlang Nongkhlaw*
Centre for Advanced Studies in Chemistry, Department of Chemistry, North-Eastern Hill University, Shillong, Meghalaya 793 022, India

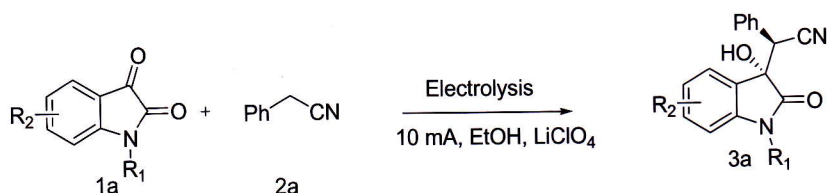
- 24 Feasible pathways for the multi-dimensional synthesis of carboxylic acid from benzo-pyrone methyl ketone



Aruna Yarva*, Lavanya Nagamalla, Kavitha K, Aparna Pasula, Srikrishna Devulapally & Pramod Kumar Dubey

Department of Humanities and Sciences, Hyderabad Institute of Technology and Management, Medchal, Hyderabad, Telangana 502 401, India

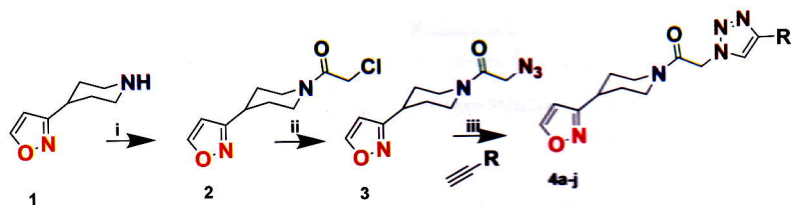
- 31 Electro-catalyzed cyanoarylmethylation of isatin for synthesis of 3-hydroxy-3-cynomethyl oxindole derivatives



Vinay Kumar Singh*, Abhishek Upadhyay, Rahul Dubey, Ved Prakash, Manoj Kumar Patel, Laxmi Kant Sharma & Rana Krishna Pal Singh*

Electrochemical Laboratory of Green Synthesis, Department of Chemistry, University of Allahabad, Allahabad 211 002, India

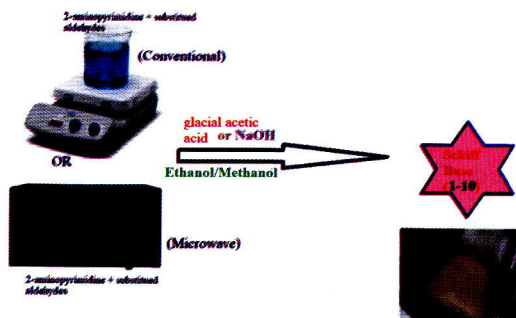
- 38 Synthesis of some new isoxazole-piperidine-1,2,3-triazoles as *in vitro* anticancer agents



Prashanth Raja Peddapyata, Jagadeesh Kumar Ega* & Kavitha Siddoju

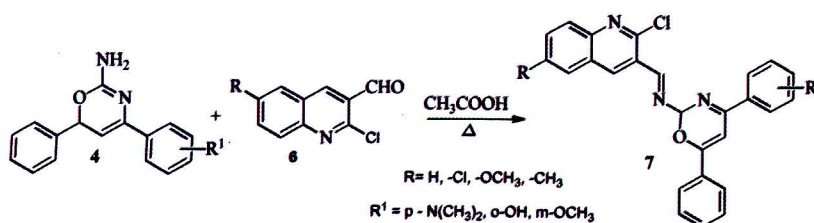
Department of Chemistry, Chaitanya (Deemed to be University), Hanamkonda, Telangana 506 001, India

- 42 **Synthesis, characterization and fungicidal activity of novel 2-aminopyrimidine Schiff bases** Synthesis of *N*-benzylidene-2-aminopyrimidine Schiff bases by condensing 2-aminopyrimidine with substituted benzaldehydes using conventional and microwave methods are reported.



Amanpreet Kaur*, Sunita Sharma, Diksha Verma, Tanvi Sahni & Sukhmanpreet Kaur
 Department of Chemistry, Punjab Agricultural University, Ludhiana-141 004, Punjab, India

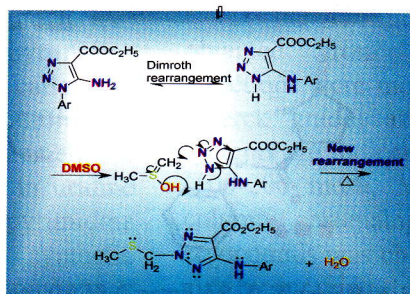
- 43 **Synthesis, characterization and antimicrobial studies of (E)-N-((2-chloro-6-substituted quinolin-3-yl)methylene)-4-(substituted phenyl)-6-phenyl-2H-1,3-oxazin-2-amines** A series of quinolino-oxazines 7 are synthesized by the reaction of substituted oxazin-2-amines 4 and substituted quinolin-3-carbaldehydes 6.



Dayananda P, Janardhana Nayak* & Vincetha Telma D'Souza

Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Department of Chemistry, Nitte-574 110, Udupi District, Karnataka, India

- 53 **Novel reactions and mechanism of -HN-N= azole derivatives with DMSO** The free-mediated reaction and mechanism of -NH-N= azole derivatives and sulfur ketones derivatives is studied and reported.

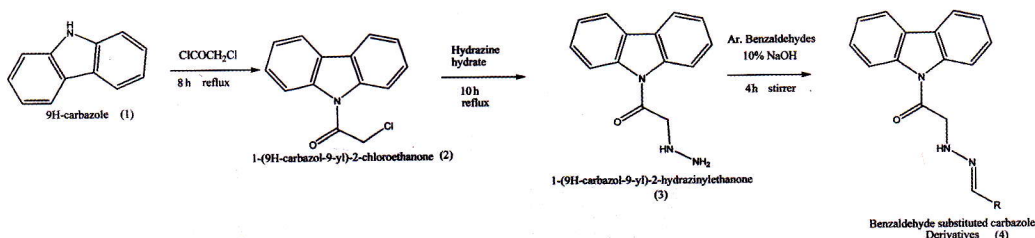


Hong-Ru Dong

School of Chemical Engineering, Lanzhou University of Arts and Science, Lanzhou 730000, Gansu, P.R. China

60 **Synthesis and evaluation of biological activity of some novel carbazole derivatives**

Synthesis of novel carbazole derivatives is based on the reaction between 9H-carbazole and chloroacetyl chloride, which leads to the synthesis of 1-(9H-carbazol-9-yl)-2-chloroethanone used for the synthesis of benzaldehyde substituted carbazole derivatives.

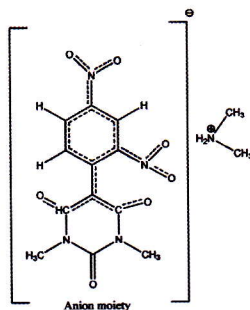


Umesh Kumar*, Sujeet Kumar Gupta, Bhumika Yogi & Surendra Kumar Gautam

Department of Pharmaceutical Chemistry, Hygia Institute of Pharmaceutical Education and Research, Lucknow 226 020, Uttar Pradesh, India

65 **Crystal structure of dimethyl ammonium 5-(2, 4-dinitrophenyl)-1,3-dimethyl barbiturate**

Dimethyl ammonium 5-(2,4-dinitrophenyl)-1,3-dimethyl barbiturate has been prepared from the ethanolic solution of 1-chloro-2,4-dinitrobenzene, 1,3-dimethylbarbituric acid and dimethyl amine. The titled complex [monoclinic, space group $p2_1/n$, $a=11.5729(15)$ Å, $b=8.6857(11)$ Å, $c=16.701(2)$ Å, $Z=4$] are analyzed.

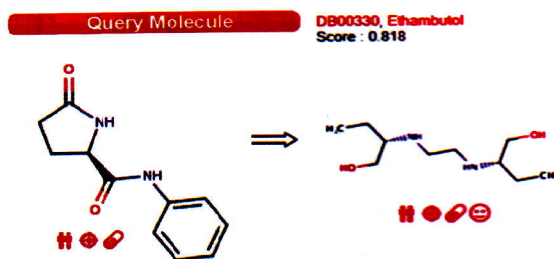


M Bhavya* & R Malarvizhi

Seethalakshmi Ramaswami College (Affiliated to Bharathidasan University), Tiruchirappalli-620 002, Tamil Nadu, India

72 **Investigation of 2-oxopyrrolidine 5-carboxylic acid amides derivatives as potential anti-tubercular agents based on the similarity screening results from molecular fingerprints and SWISS SIMILARITY**

A SWISS SIMILARITY search by ShapeIT⁶ screening method was done with 2-oxopyrrolidine 5-carboxylic acid amide as the query molecule.



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