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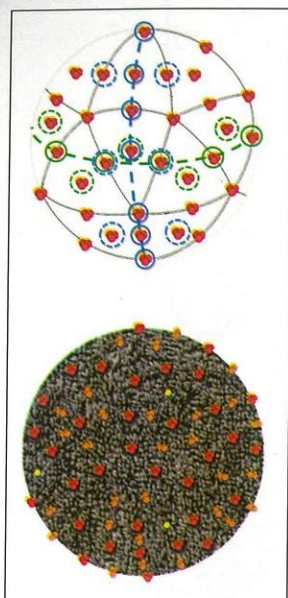
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Dehradun

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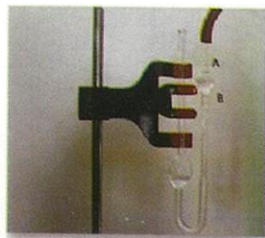
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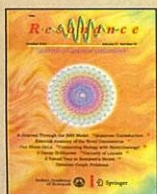


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J. Tits

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This 'publicity photo' of the root system of type E_8 is drawn by projecting the 8-dimensional space R^8 to a chosen plane. The 240 roots are the black dots that lie on eight concentric circles of 30 dots each. The edges in the picture join the images of roots that are nearest neighbors in R^8 . The color of an edge indicates its length in R^2 .

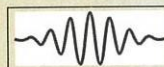
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Jacques Tits (1930–2021)

Illustration: Subhankar Biswas

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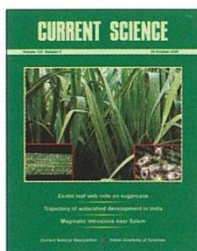
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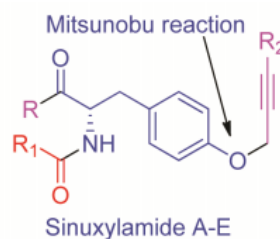
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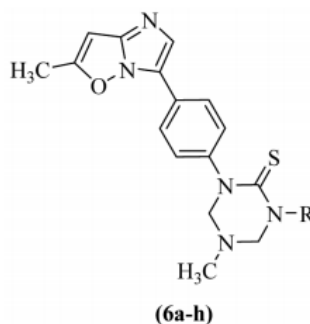
- 1039 Synthesis of glycoprotein inhibitory agents sinuxylamide A-E** Synthesis of natural compounds Sinuxylamides A-E has been accomplished. Synthesis started from L-tyrosine and the key reactions are amide formation, Mitsunobu etherification and ester hydrolysis.



K Annapurna, K Srinivasa Rao & A Venkat Narsaiah*

Organic Synthesis Laboratory, Fluoro-Agrochemicals Department, CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, Telangana, India

- 1046 Synthesis and antimicrobial activity of novel 5-methyl-1-(4-(6-methylimidazo[1,2-b]isoxazol-3-yl)phenyl)-3-aryl-1,3,5-triazinane-2-thiones** The synthesis of imidazo[1,2-*b*]isoxazolyl-1,3,5-triazinane-2-thiones has been achieved from readily accessible starting materials in good yields. The newly synthesized title compounds **6a-h** have been evaluated for their *in vitro* antimicrobial activity

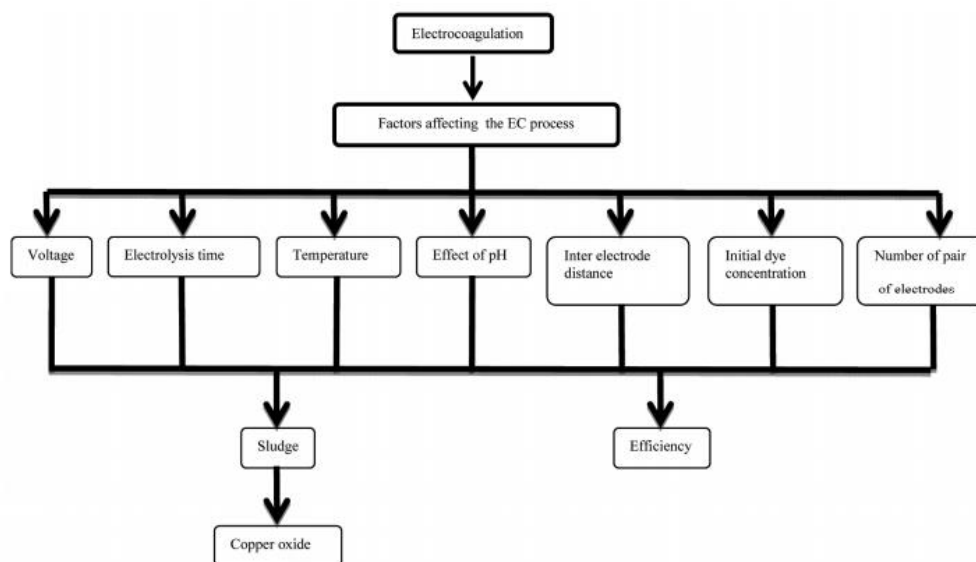


Srinivas Marri

Department of Chemistry, Siddhartha Degree and P.G. College, Narsampet, Warangal 506 132, India

INDIAN J CHEM, 61 (10) 2022

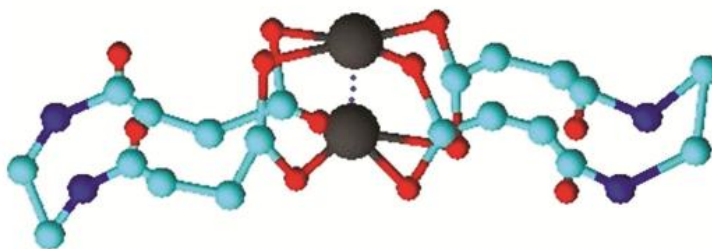
- 1054 **Electrocoagulation for the efficient removal of Eriochrome Black T from wastewater using copper electrodes** Various parameters affecting the removal efficiency of Eriochrome black T dye from aqueous solution using copper electrodes are studied



Mohan S*, Sharath P, B M Nagabhushana, Chikkahanumantharayappa & C Shivakumara

Department of Physics, Bangalore University, Bengaluru 560 056, India

- 1065 **Syntheses, spectral, thermal and pH-metric studies on bivalent metal ion complexes of N,N'-bis(3-carboxy-1-oxo-*z*-prop-2-elenyl)ethylenediamine** Co(II), Ni(II) and Pd(II) form mononuclear square planar complexes, while Cu(II) form binuclear complex with the ligand.

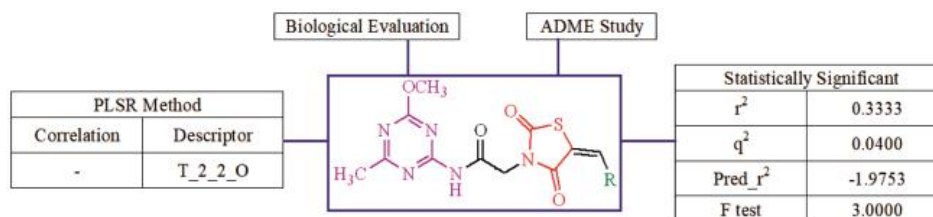


Binuclear complex of Cu(II) with the ligand

Vinod Kumar*, Sachin Mittal*, Malladi J Reddy & Bhagwan S Garg

Department of Chemistry, Deen Dayal Upadhyaya College (University of Delhi), New Delhi 110 078, India

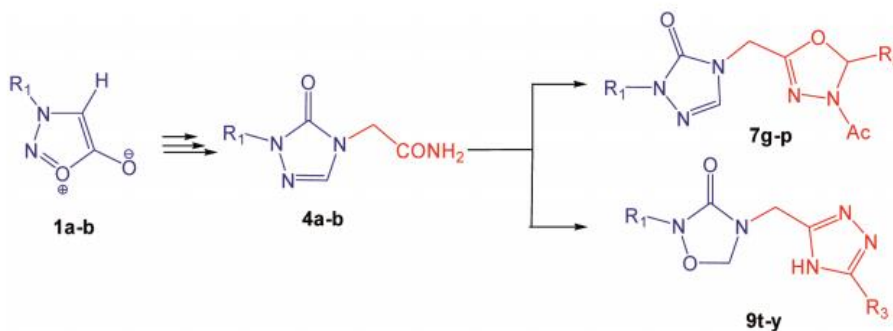
- 1072 **Study of biophysical properties, synthesis and biological evaluations of new thiazolidine-2,4-dione conjugates** Biological prediction of new thiazolidine-2,4-dione conjugates have been performed by 2D-QSAR by PLSR method using thermodynamic descriptor $T_{2_2_O}$ and statistically significant r^2 , q^2 , pred_r^2 and F test.



Jaydeep A Patel, Navin B Patel* & Parth P Patel

Department of Chemistry, Veer Narmad South Gujarat University, Surat 395 007, Gujarat, India

- 1082 **Novel 1,2,4-triazole clubbed with 1,3,4-oxadiazole motifs as efficient antimicrobial agents from N-arylsydnone as synthon** A new class of 1,2,4-triazole clubbed with 1,3,4-oxadiazole motifs have been prepared and characterized by spectral analysis. Molecular docking study of the title compounds against *S. aureus* tyrosyl-tRNA synthetase (PDB: 1JJJ) and lanosterol 14 α -demethylase complex with standard inhibitor Fluconazole (PDB: 3KHM) has been performed. The compounds exhibit majestic antibacterial and antifungal activity.

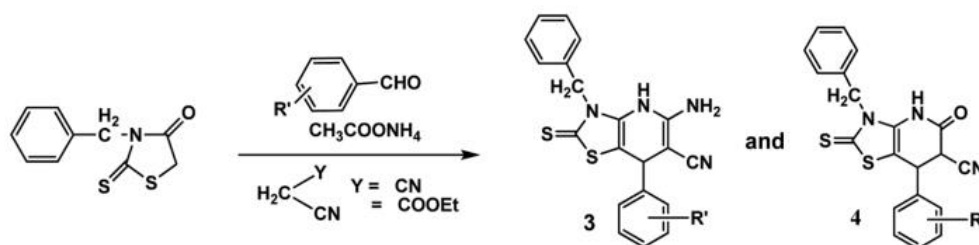


Shipa M Somagond, Ravindra R Kamble*, Belgur S Sudha, Sheetal B Margankop, Pramod P Kattimani & Shrinivas D Joshi

Department of Studies in Chemistry, Karnatak University, Dharwad 580 003, Karnataka, India

1097 One-pot Michael addition and cyclo-elimination cascade synthesis of thiazolo-[4,5-*b*]pyridin-6-carbonitrile scaffold

A series of thiazolo [4,5-*b*] pyridine-6-carbonitriles scaffold have been synthesized conveniently and smoothly in a single step in good yields. These compounds have been screened for their antibacterial and antifungal activity against different pathogenic strains of bacteria and fungi. The minimum inhibitory concentration (MBC) and minimum fungicidal concentration (MFC) have been determined for the test compounds as well as for reference standards. Compounds **3c**, **3d**, **3e**, **3f**, **4c**, **4d**, **4e** and **4f** have shown good antibacterial as well as antifungal activity.

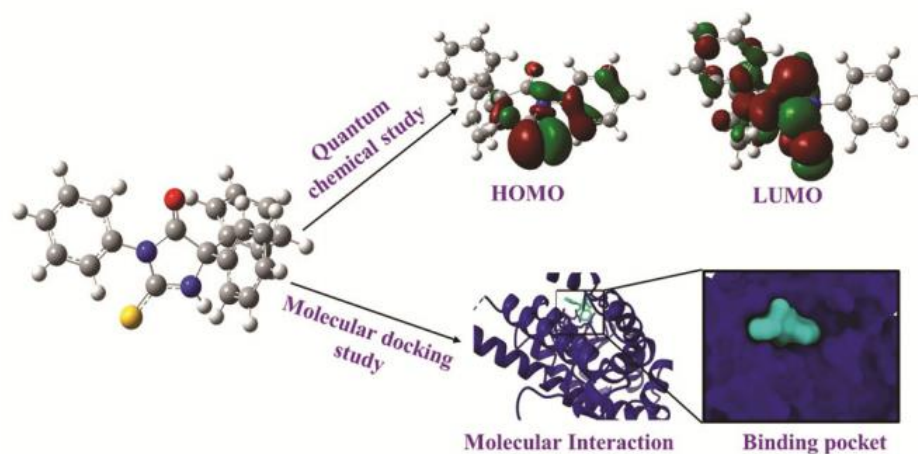


Shailendra Tiwari*, Vishal Kumar Singh, Shahla Rahmani, Akeel Ahmad & Kahkashan Begum

Department of Chemistry, University of Allahabad, Allahabad 211 002, India

1103 A combined study of quantum chemical calculation and molecular docking of some hydantoin and thiohydantoin related compounds

Herein is reported, the quantum chemical properties and the molecular docking of a set of seven hydantoin and thiohydantoin related heterocyclic compounds containing cyclic urea and thiourea nuclei.



Mukta Das & M Abul Kashem Liton*

Department of Chemistry, Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902, Bangladesh

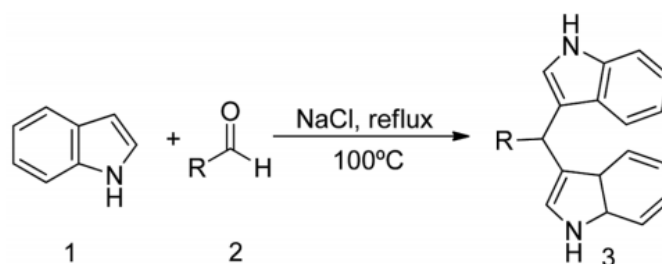
- 1113 Synthesis and characterization of carbamate derivatives from 4-amino-1,2,4-triazole** Synthesis of carbamate derivatives of 4-amino-1,2,4-triazoles and 3-(methylthio)-4-amino-1,2,4-triazoles is described. Monocarbamate derivatives have been obtained from 4-amino-1,2,4-triazoles, whereas bicarbamate derivatives have been obtained as major products along with mono carbamate derivatives as minor products from 3-(methylthio)-4-amino-1,2,4-triazoles.



Sunil Kumar Choudhary, Monika Trivedi & Nidhi Sogani*

Department of Chemistry, The IIS University, Jaipur 302 020, India

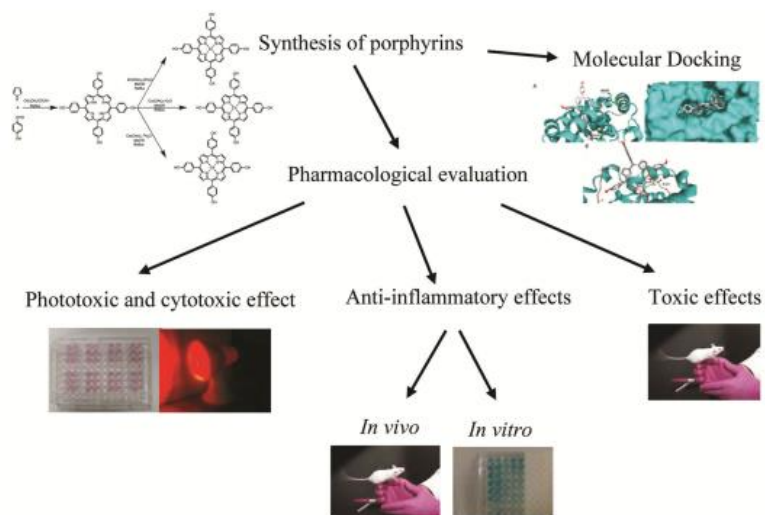
- 1120 An efficient sodium chloride-catalyzed synthesis of bis(indolyl) methanes in green solvent and their antibacterial evaluation** The use of bis(indolyl)methane for medicinal purpose is common knowledge. Thus, the economical synthesis of the bis(indolyl)methane is important for cheaper medicines. Sodium chloride being readily available and cost-effective has been tested as a catalyst for the production of bis(indolyl)methane. Sodium chloride catalyzed synthesis of bis(indolyl)methane's derivatives is accomplished by condensation of different aldehydes and indole in an aqueous medium to give the product in excellent yield. Sodium chloride acts as an efficient catalyst, which completes the reaction within 3-4 hours.



Lensayula Longkumer, Putusenla Imchen, Betokali K Zhimomi, Toka Swu & I Tavishe Phucho*

Department of Chemistry, Nagaland University, Lumami 798 627, Nagaland, India

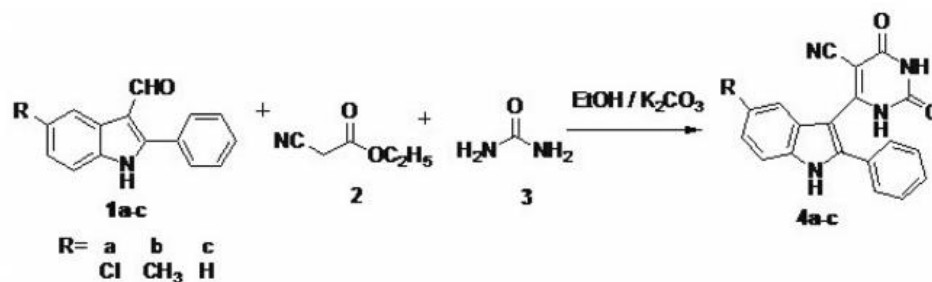
- 1124 **Synthesis and pharmacological evaluation of free-base 5,10,15,20-tetrakis(4-hydroxyphenyl)porphyrin and its Zn, Cu, Co metaloderivatives** Synthesis and pharmacological evaluation of free-base 5,10,15,20-tetrakis(4-hydroxyphenyl)porphyrin and its Zn, Cu, Co metallo derivatives has been carried out.



Antonio Vega-Medina, Salud Pérez-Gutiérrez, Julia Pérez-Ramos, Cristina Martínez-Nava & Cuauhtémoc Pérez-González*

Departamento de Sistemas Biológicos, Universidad Autónoma Metropolitana-Xochimilco, Calzada del Hueso 1100, Colonia Villa Quietud, Coyoacán, México

- 1134 **Design of an efficient three component one-pot synthesis of 1,2,3,4-tetrahydro-4-oxo-6-(5-substituted 2-phenyl-1H-indol-3-yl)-2-thioxopyrimidine-5-carbonitrile as antimicrobial and antitubercular agent** In the present study, novel indolyl-pyrazolo-pyrimidine derivatives 4a-c have been synthesized and confirmed by spectroscopic techniques and evaluated for *in vitro* antimicrobial, antitubercular and antioxidant activities.



Prabhaker Walmik

Department of Post-Graduate Studies and Research in Chemistry, Sahyadri Science College, Kuvempu University, Shivamogga 585 106, India

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Mimosa rubicaulis sub species himalayan a displaying its majestic violet bloom in Morni hills of Haryana. While its flowers are very good source of pollens and nectar for honey bees, the wood is suitable for tent pegs and for making gunpowder charcoal.

Photo by : Jagdish Chander, IFS, PCCF, Haryana.

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