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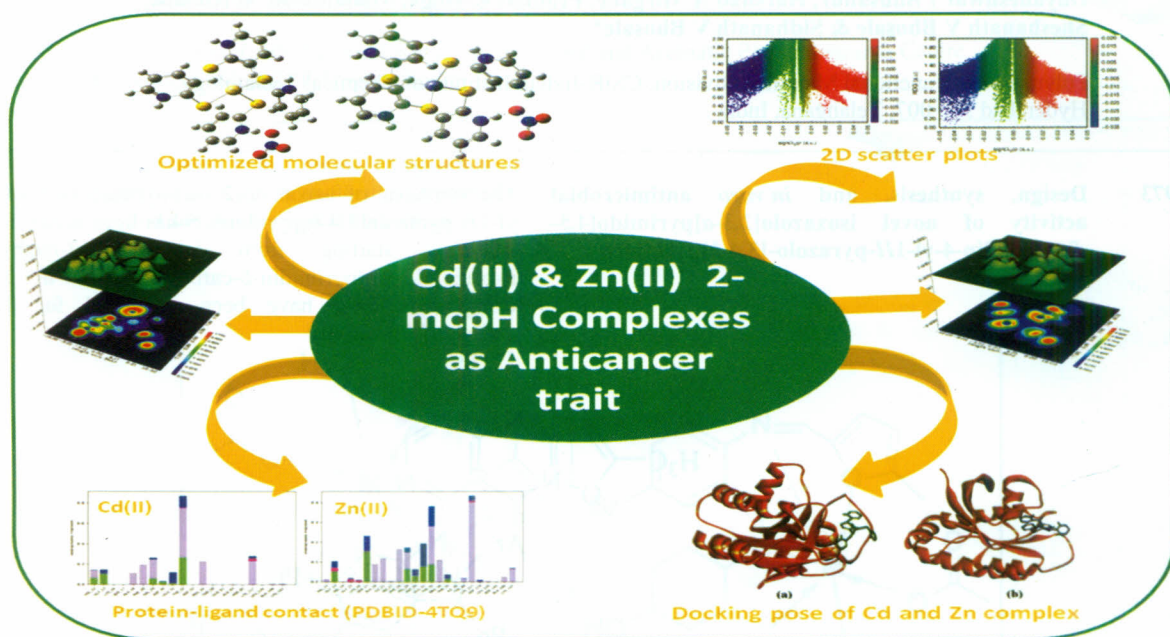
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Papers

- 945 Computational studies and *in silico* evaluation of Cd (II) and Zn (II) complexes revealing their anti-cancer trait



Maithra Nagaraju, Arijit Das*, Paresh Debnath, Chethan Burudeghatta Sundaramurthy & Neratur Krishnappagowda Lokanath*

Department of Studies in Physics, University of Mysore, Mysuru 570 006, India

- 959 Aggregation induced emissive pyrimido fused tetraphenylethene benzothiazole probe for sensitive and selective detection of Fe^{3+} ions

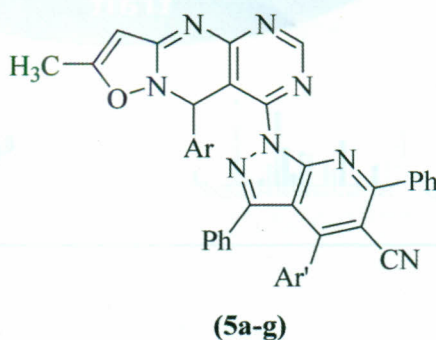


Dnyaneshwar I Bhusanur, Harshad A Mirgane, Prabhat K Singh, Mohammad Al Kobaisi, Sheshanath V Bhosale & Sidhanath V Bhosale*

Polymers and Functional Materials Division, CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, Telangana, India

- 973 Design, synthesis, and *in vitro* antimicrobial activity of novel isoxazolo[2,3-*a*]pyrimido[4,5-*d*]pyrimidin-4-yl-1*H*-pyrazolo-[3,4-*b*]pyridines

The synthesis of isoxazolo[2,3-*a*]pyrimido[4,5-*d*]pyrimidin-4-yl-1*H*-pyrazolo[3,4-*b*]pyridines **5** has been achieved in a 4-step synthesis starting from 5-amino-2-methyl-7-aryl-7*H*-isoxazolo[2,3-*a*]pyrimidin-6-carbonitriles **1** in good yields. Compounds **5a-g** have been evaluated for their *in vitro* antimicrobial activity.

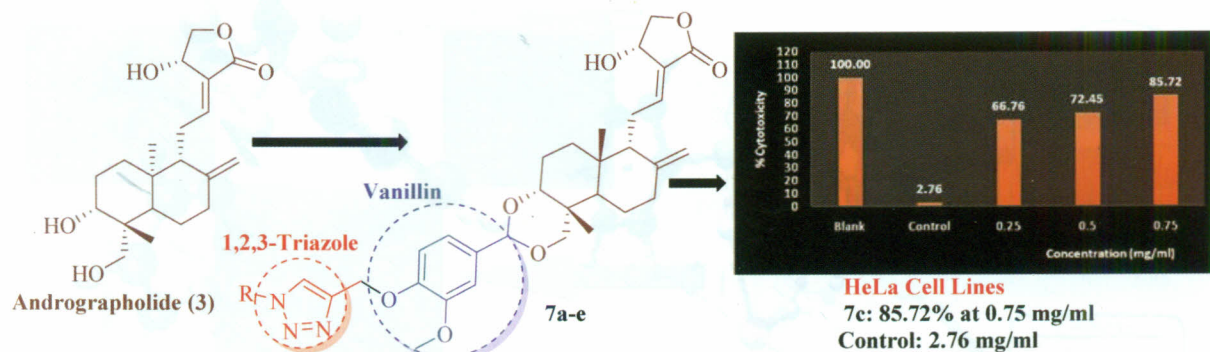


R Sanjeev*, P V Dongarkadekar & Mahesh Bapurao Swami

Department of Chemistry, Nethaji Subhash Chandra Bose Arts, Commerce & Science College, Nanded, Swami Ramanand Teerth Marathwada University, Nanded 431 513, India

- 985 **Synthesis, design, and examination of the cytotoxic effects and nuclear condensation properties of novel angrographolide-vanillin-1,2,3-triazoles**

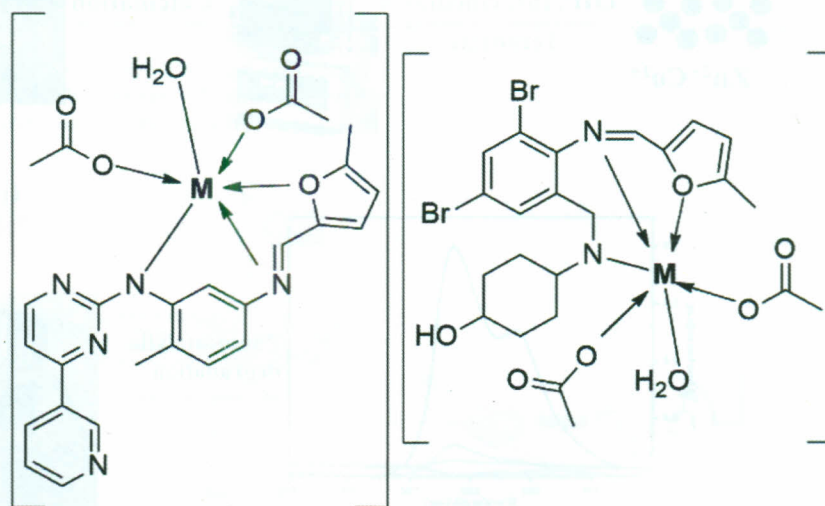
Novel series of angrographolide-vanillin-1,2,3-triazoles have been synthesised and evaluated for their cytotoxic efficacy.



Shaik Sonia Nazmi, A Niranjana Kumar, Vaishnavi Bharat, J Kotesk Kumar*, K V N S Srinivas, Ira Bhatnagar, Balakishan Bhukya & M Sandhya Rani

Phytochemistry Division, CSIR-Central Institute of Medicinal and Aromatic Plants Research Centre, Boduppal, Hyderabad 500 092, Telangana, India

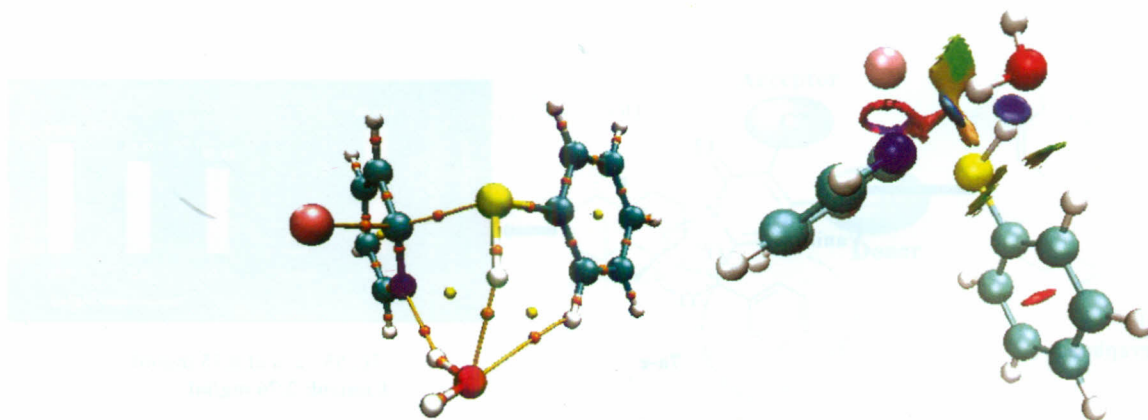
- 992 **Transition metal based coordination compounds of Schiff base derived from drug molecules: Synthesis, spectroscopic and *in vitro* biological screening**



Prashant Gajera*, Milan Vadodaria & Rahul Parmar

Atmiya University, Rajkot 360 005, Gujarat, India

- 999 Computational investigation of water as catalyst and solvent in aromatic nucleophilic substitution reaction of 2-bromopyridine

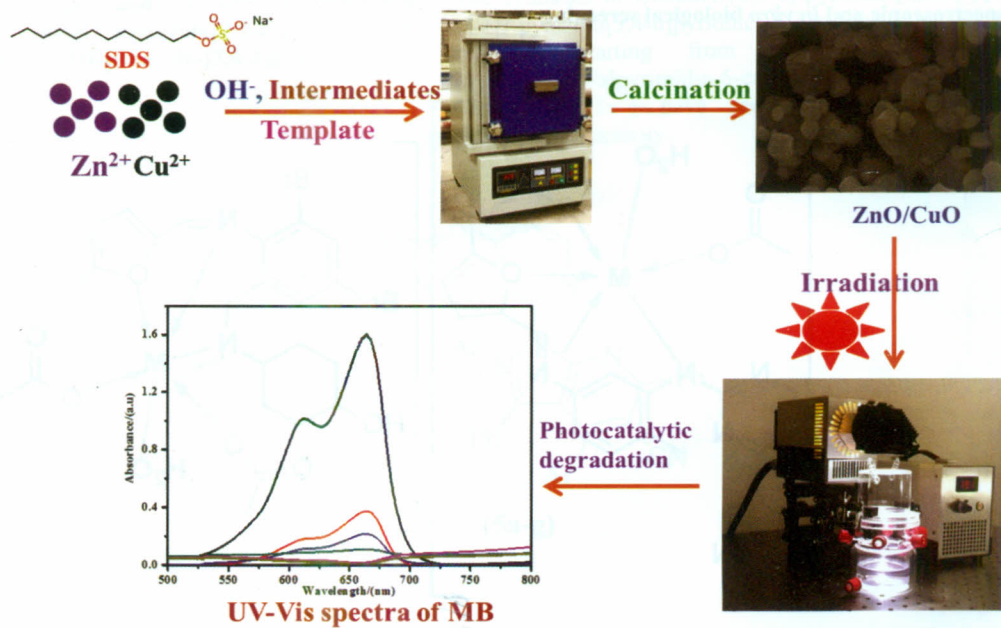


Role of water as catalyst in solvent in stabilizing transition state

Harjinder Singh

P. G. Department of Chemistry, Multani Mal Modi College, Patiala 147 001, Punjab, India

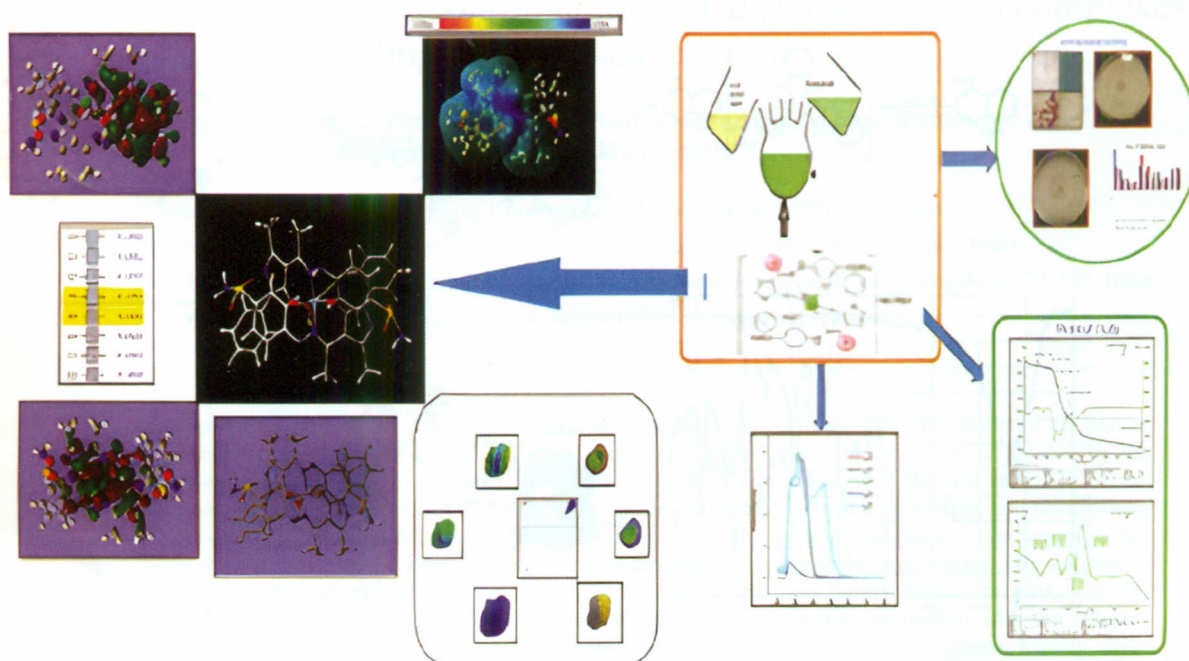
- 1008 Preparation of ZnO/CuO under the regulation of SDS and its application in photocatalytic degradation



Aimin Ding, Wenqing Tai, Yijing Yuan, Tingting Zhang, Mengting Yan, Hongying Li* & Chengli Yao*

School of Pharmaceutical and Chemical Engineering, Hefei Normal University, Hefei 230601, P. R. China

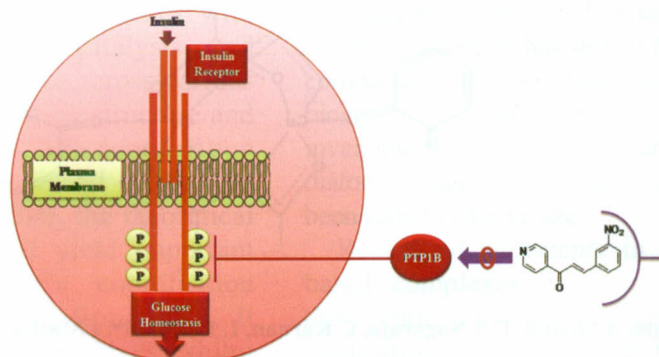
- 1015 Synthesis, characterization, thermal aspects, density functional theory study and *in vitro* antibacterial evaluation of Cr(III) complexes based on pyrazolone phenylhydrazone ligands



Chintan P Somaiya*, Dinesh S Patel, Darshan H Jani & Drashti R Thanki

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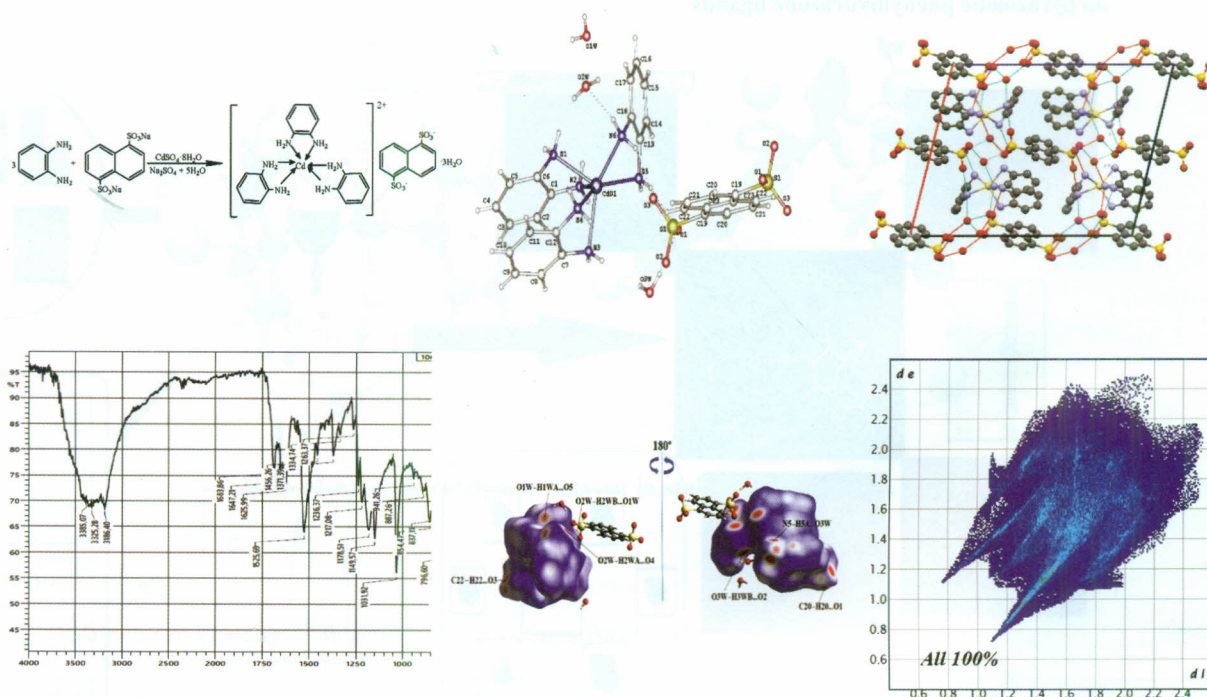
- 1028 Co-crystallized ligand based designing and synthesis of some heterocyclic derivatives of chalcone as "protein-tyrosine phosphatase 1B" inhibitors



Ankit Jain*, Dinesh K Jain & Upendra Bhadoriya

IPS Academy College of Pharmacy, A. B. Road, Rajendra Nagar, Indore 452 012, Madhya Pradesh, India

- 1036 Synthesis, crystal structure and properties of tris(benzene-1,2-diamine-*N,N'*)-cadmium naphthalene-1,5-disulfonate trihydrate complex compound

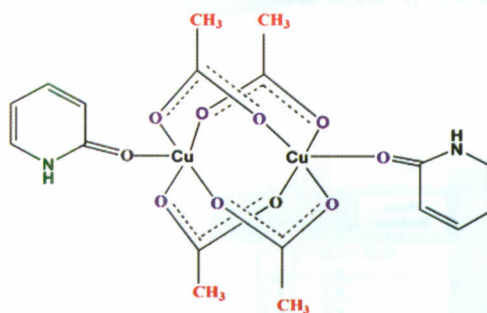


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Department of Chemical Technology, Termez Institute of Engineering and Technology, Termez 190111, Uzbekistan

- 1044 Spectral, anticancer and molecular docking studies of paddle-wheel complex tetrakis(μ -acetato) bis(2-pyridone)dicopper(II) against MCF-7 cell line

Tetrakis(μ -acetato)bis(2-pyridone)dicopper(II) (Cu_2TAP) has been prepared and characterized by spectroscopic data. The anti-cancer and molecular docking analysis of the complex have been studied.



S Vennila, K Deepa, A Shalini, K S Nagaraja, C Karnan, L Lakshmi*, I Muthuvel & G Thirunarayanan

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