

# Indian Journal of Chemistry

VOL. 62

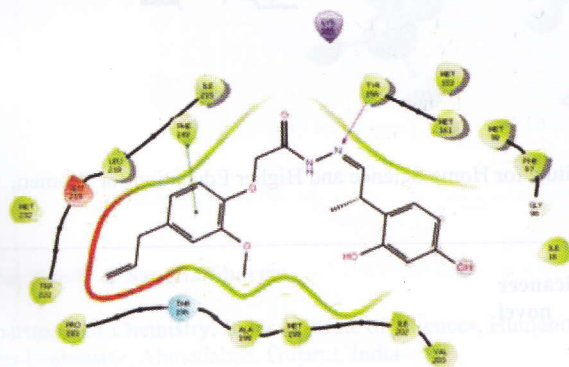
NUMBER 6

JUNE 2023

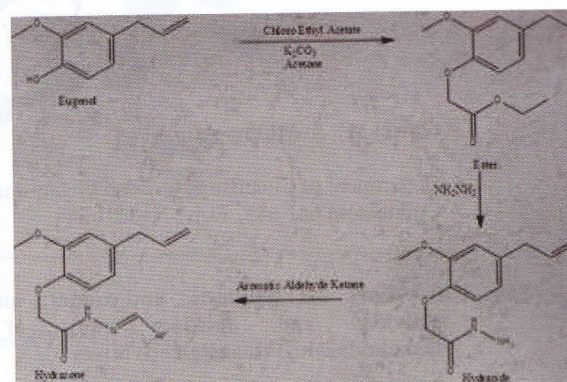
CONTENTS

## Papers

- 551 Synthesis, molecular docking and anti-inflammatory potential of novel hydrazones of eugenol in tuberculosis treatment



Molecular Docking



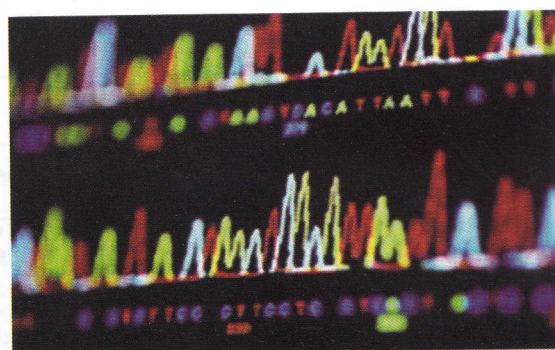
Synthesis of hydrazone Derivatives



A: Before carrageenan injection

B: After carrageenan injection

In vivo Anti-inflammatory Activity

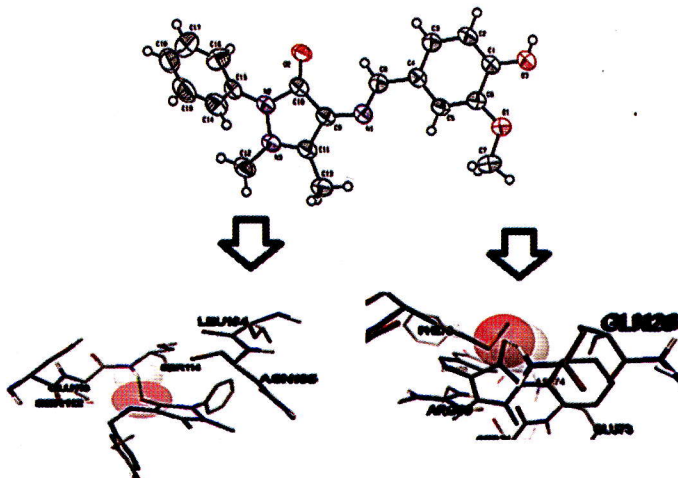


Spectrometric Characterization

Sachin H Rohane\*, Vivekkumar K Redasani, Neeraj Kumar Fuloria & Shivkanya Fuloria

YSPM YTC, Faculty of Pharmacy, Satara 415 011, Maharashtra, India

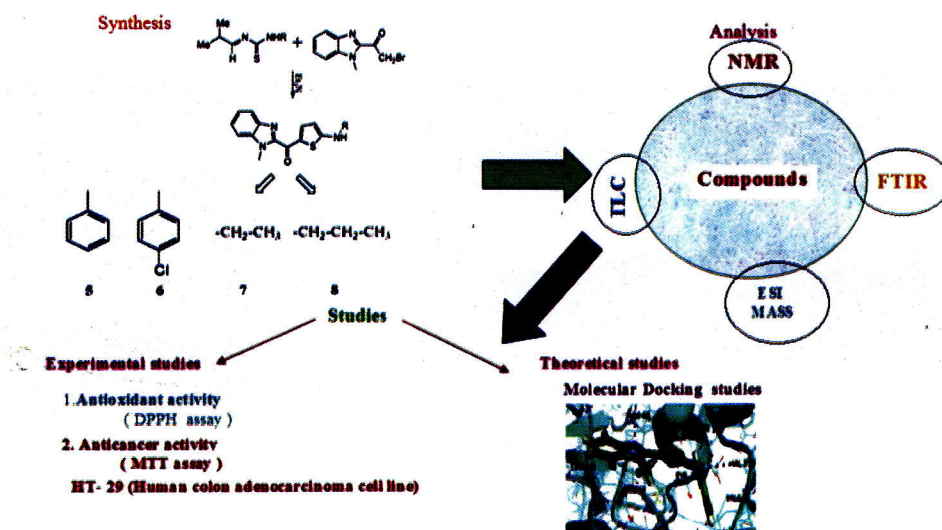
- 559 Evaluation of drug likeliness of (Z)-4-((4-hydroxy-3-methoxybenzylidene)amino)-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one by computational analysis against coronavirus and T-cells of immune system



Gowri M\* & Athimoolam S

Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore 641 043, Tamil Nadu, India

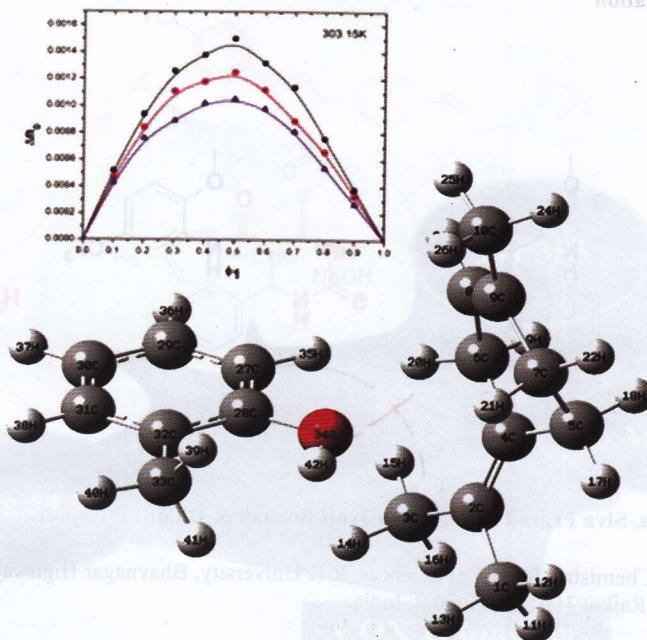
- 568 A study on synthesis, antioxidant, anticancer activities and docking study of novel benzimidazoloyl thiazole derivatives



Chithra V S\*, Brindha J, A Mariappan, Turibius Simon & Abbs Fen Reji T F

Department of Chemistry, Malankara Catholic College, Kaliyakkavilai 629 153, Tamil Nadu, India

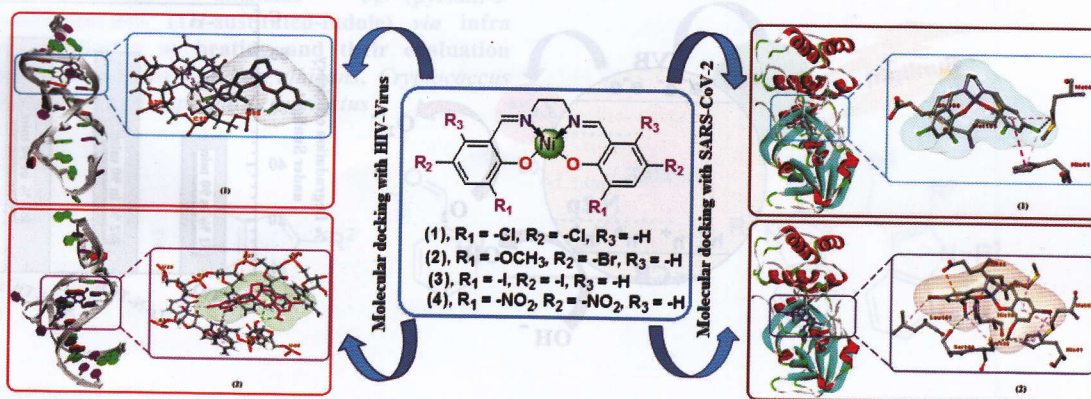
575 Viscometric and refractive index study of intermolecular interaction between binary mixtures of terpinolene with *o*-, *m*- and *p*-cresol at 303.15, 308.15 and 313.15 K



Paras Patel\* & Sangita Sharma

Department of Chemistry, Indus Institute of Sciences, Humanities & Liberal Studies, Indus University, Ahmedabad, Gujarat, India

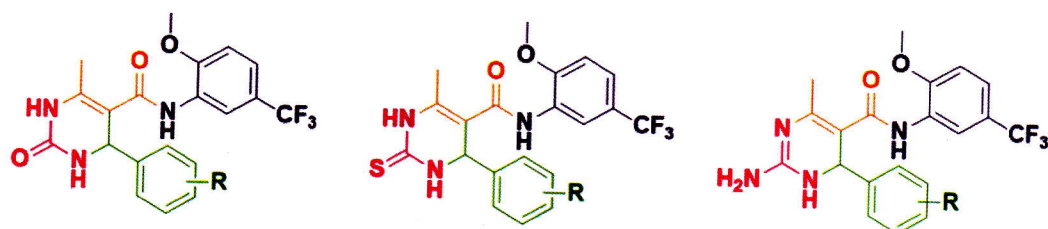
586 An *in silico* design of antivirus nickel (II) complexes as therapeutic drug candidates



Sunil Kumar & Mukesh Choudhary\*

Department of Chemistry, National Institute of Technology Patna, Patna 800 005, Bihar, India

- 600 Microwave-assisted synthesis of -CF<sub>3</sub> functionalized 3,4-dihydropyrimidinone/thione/imine derivatives by using potassium phthalimide (PPI) as a green and reusable organocatalyst and their anti-microbial evaluation

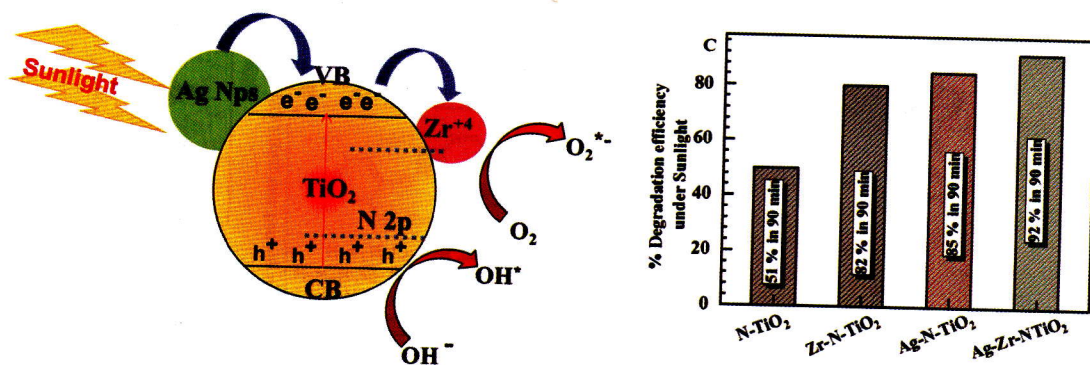


Suresh P Odiya, Siva Prasad Das\*, Jeena Jyoti Boruah & Dhanji P Rajani

Department of Chemistry, School of Sciences, R K University, Bhavnagar Highway, Kasturbadham, Rajkot 360 020, Gujarat, India

- 618 Enhanced photoactivity effect of Ag metal loading on Zr<sup>4+</sup> doped N-TiO<sub>2</sub> obtained by microwave assisted method

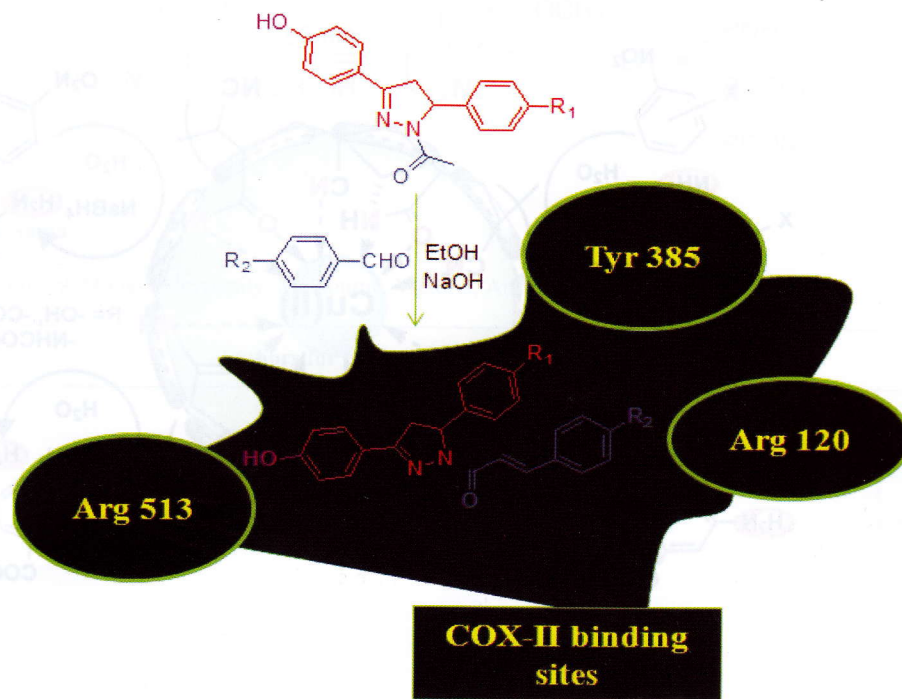
Ag-Zr-NTiO<sub>2</sub> Sunlight active photocatalyst



Rohant Dhabbe, Vinayak Gawade, Kabir Kumbhar, Sandip Sabale\* & Kalyanrao Garadkar

Department of Chemistry, Jaysingpur College, Jaysingpur 416 101, India

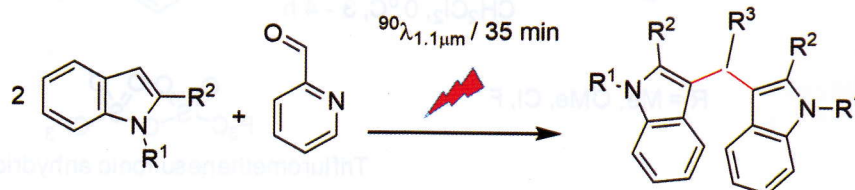
- 627 *In vitro* and *in silico* studies on novel N-substituted-3,5-diaryl-pyrazoline derivatives as COX-2 inhibitors and anti-inflammatory agents



Upendra Bhadoriya\* & Dinesh Kumar Jain

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

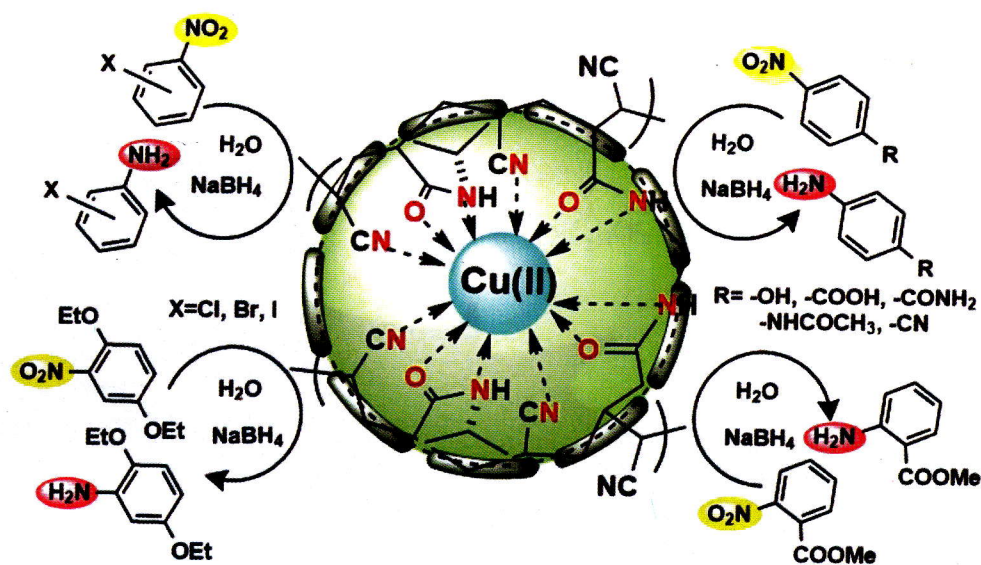
- 634 Synthesis of alkaloids 3,3'-(pyridin-2-yl)methylenebis-(1H-substituted-indole) via infra red irradiation as heating and their evaluation antifungal against *Candida albicans*, *Cryptococcus neoformans* and *Aspergillus fumigatus*



José Abraham Rojas-Jaramillo, José Guillermo Penieres-Carrillo\*, Tonatiuh Alejandro Cruz Sánchez, Viviana Reyes-Márquez, David Morales-Morales, Francisco Pérez-Flores, Carlos Cosío-Castañeda, Ivette Morales-Salazar & Ricardo-Alfredo Luna-Mora

Facultad de Estudios Superiores Cuautitlán-Universidad Nacional Autónoma de México, Sección de Química Orgánica, FESC, Campo 1, Cuautitlán Izcalli, C. P. 54740, México

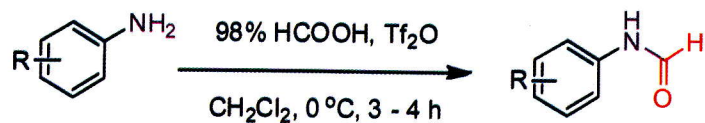
- 644 Copper sulphate immobilized on P(AN-NIPAM-MBAM) terpolymer as a highly efficient catalyst for the selective reduction of nitro-arenes



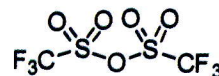
Anirudhda G Kalola, Pratibha Prasad, Roshni D Hingrajiya & Manish P Patel\*

Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar 388 120, Gujarat, India

- 656 Synthesis of N-aryl derived formamides using triflic anhydride



R = Me, OMe, Cl, F

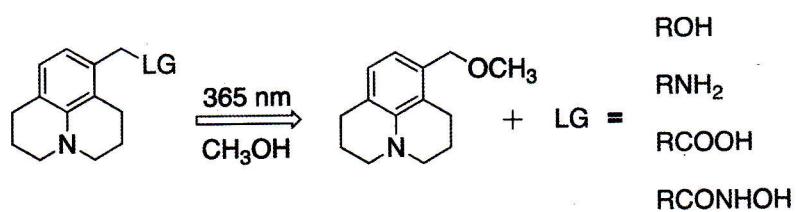


Trifluoromethanesulfonic anhydride (Tf<sub>2</sub>O)

Swetha Bharamawadeyar & Vommina V Sureshbabu\*

Peptide Research Laboratory, Department of Chemistry, Jnana Bharathi Campus, Bangalore University, Bangalore 560 056, India

**Design and application of a new julolidine-based  
photolabile protecting group**



**Gopal Reddy Sama**

School of Chemistry, Monash University, Melbourne, Victoria, Australia 3800

Authors for correspondence are indicated by (\*)