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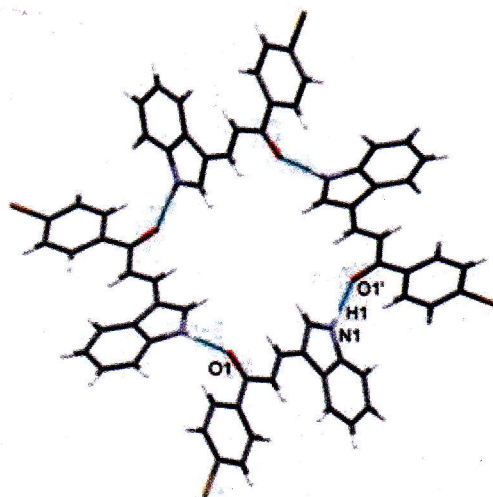
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### Papers

1211 Study of solid state structural and bonding features of (E)-1-(4-bromophenyl)-3-(1-*H*-indol-3-yl)-prop-2-en-1-one

Single-crystal X-ray study of indolyl chalcone (*E*)-1-(4-bromophenyl)-3-(1-*H*-indol-3-yl)-prop-2-en-1-one shows formation of hydrogen-bonded cyclic tetramer around a 2-fold axis and 4-fold roto-inversion axis through N1–H1···O1 interactions between the indolic NH group as a hydrogen-bond donor and the carbonyl O atom as a hydrogen-bond acceptor.



Anita R Banpurkar, Sachin S Wazalwar\* & Franc Perdih

Department of Applied Chemistry, Rajiv Gandhi College of Engineering, Research and Technology, Chandrapur 442 403, India

1215 Synthesis, molecular docking and biological evaluation of new quinoline analogues as potent anti-breast cancer and antibacterial agents

Shrimant V Rathod\*, Kailas W Shinde, Prashant S Kharkar, Chetan P Shah, K Aruna & Darshana A Raut

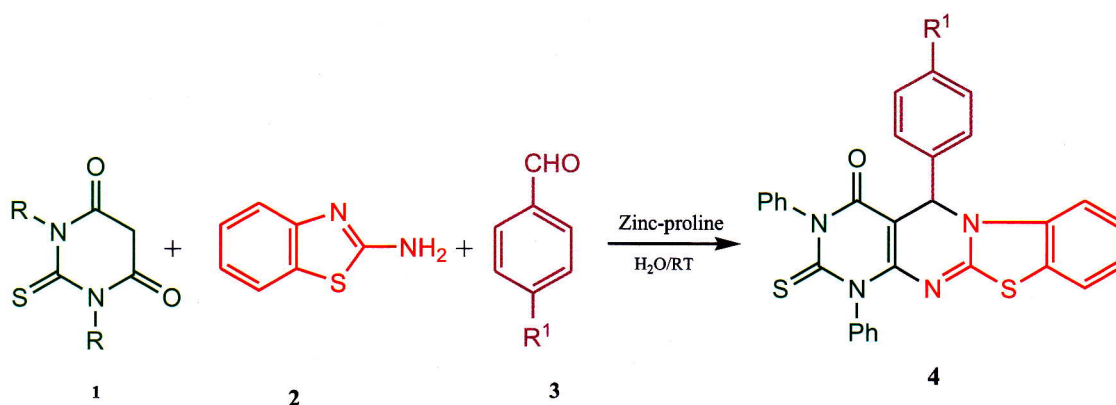
Department of Chemistry, Bhavan's Somani and Hazarimal College, Mumbai 400 007, India

- 1223 Preparation, characterization, antibacterial, antifungal and antioxidant activities of novel pyrazole-thiazole derivatives

Purvash J Shah

Department of Chemistry, K K Shah Jarodawala Maninagar Science College, Maninagar, Ahmedabad 380 008, India

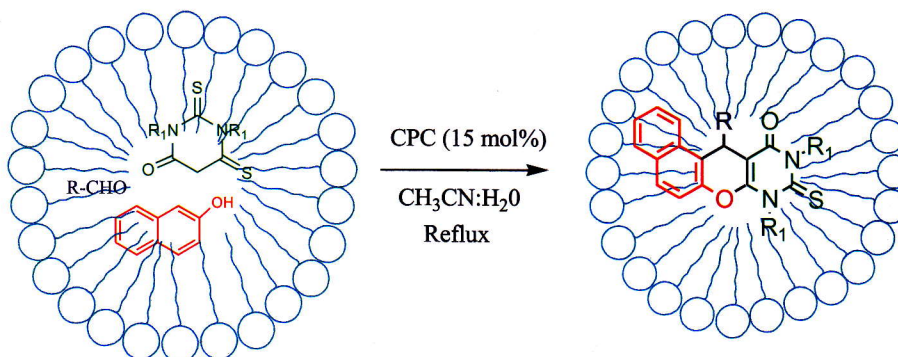
- 1230 Synthesis of biologically active 2-thio-5-arylbenzo[4,5]thiazolopyrimido[5,4-d]pyrimidin-4-one derivatives catalyzed by metal proline in water
- A facile and highly efficient one pot multi-component reaction for the synthesis of 2-thio-5-arylbenzo[4,5]thiazolopyrimido[5,4-d]pyrimidin-4-one derivatives **4** under aqueous medium has been developed.



Medhabati Thiyam, Ranjana Devi Thaodem & Warjeet Singh Laitonjam\*

Department of Chemistry, Manipur University, Canchipur, Imphal 795 003, India

- 1243 Synthesis and screening for antioxidant and cytotoxic activities of novel 2-thioxo-benzo[f]chromeno[2,3-d]pyrimidin-4-ones derived by cetylpyridinium chloride catalyzed multicomponent reactions in aqueous micellar media
- A series of novel 2-thioxo-benzo[f]chromeno[2,3-d]pyrimidin-4-one derivatives have been designed and synthesized in aqueous media using surfactant as catalyst and evaluated for their antioxidant and cytotoxic activities.

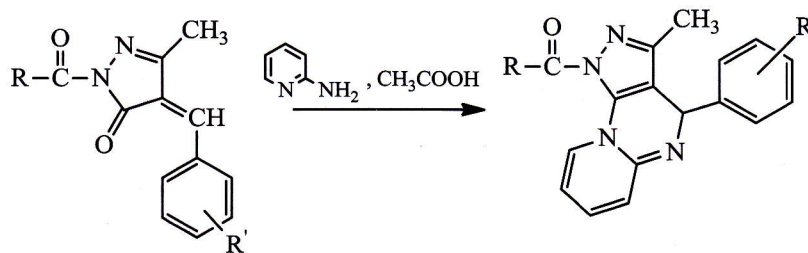


Dini Ahanthem, Medhabati Thiyam, Reena Haobam & Warjeet S Laitonjam\*

Department of Chemistry, Manipur University, Canchipur, Imphal 795 003, India

- 1258** An efficient synthesis of 1, 4- disubstituted-3-methyl pyrazolo [4, 3-e]-pyrido [1, 2-a] pyrimidines via Michael addition and cycloelimination reactions

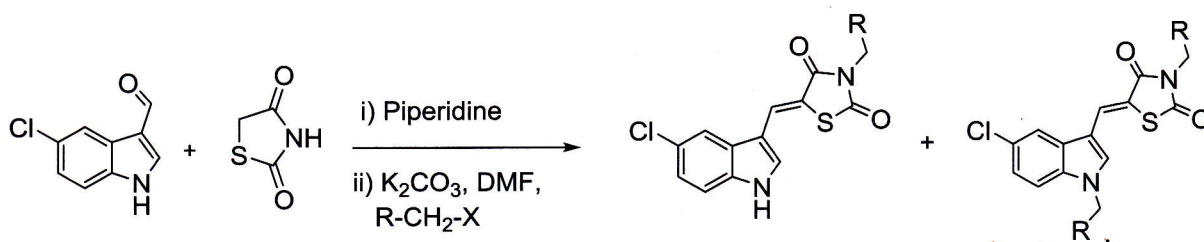
A new series of novel 1, 4-disubstituted-3-methyl pyrazolo [4,3-e]-pyrido [1,2-a] pyrimidines have been synthesized from a common intermediate, in good yields. These compounds have been screened for their antibacterial and antifungal activity against different pathogenic strains of bacteria and fungi. The minimum inhibitory concentration (MBC) and minimum fungicidal concentration (MFC) have been determined for the test compounds as well as for reference standards. Compounds **3d**, **3e**, **3f**, **3h** have shown good antibacterial activity whereas compounds **3a**, **3b**, **3c**, **3g** have displayed better antifungal activity.



Shailendra Tiwari\* & Akeel Ahamd

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

- 1264** Synthesis and structural confirmation on selective N-alkylation of (Z)-5-((5-chloro-1H-indol-3-yl)methylene)-thiazolidine-2,4-dione analogues with their molecular docking studies



Vasappanavara Sreenatha & Karnam Jayarampillai Rajendra Prasad\*

Department of Chemistry, Bharathiar University, Coimbatore 641 046, India

- 1272** Synthesis of bis chalcones and transformation into bis heterocyclic compounds with expected antimicrobial activity

Amira A Ghoneim\*, Rehab M Elbargisy & Afaf Manoer

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