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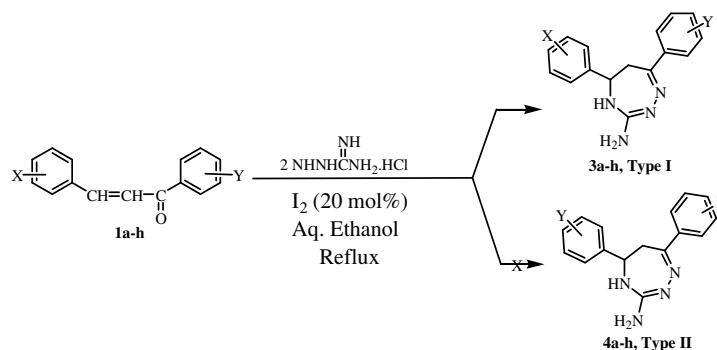
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Papers

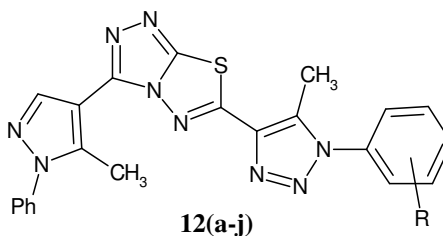
- 585** **Molecular iodine: A highly efficient catalyst for the regioselective synthesis of novel 1,2,4-triazepines** Molecular iodine has been employed as a novel catalyst for the synthesis of 1,2,4-triazepines core. Dissymmetric-1,3-diarylpropenones upon reaction with aminoguanidine hydrochloride, a polynucleophile afford regioselective synthesis of 1,2,4-triazepines with novel substitution patterns in the presence of catalytic amount of molecular iodine. This one-step methodology is clean, facile, high yielding and environmentally benign.



Mazaahir Kidwai*, Shuchi Kukreja, Kavita Singhal & Neeraj Kumar Mishra

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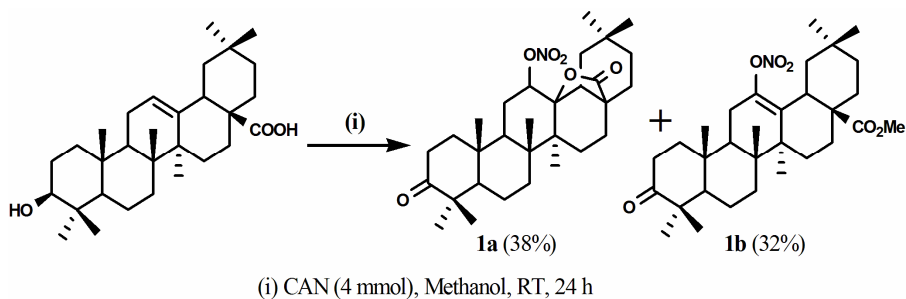
- 590** **Synthesis and antibacterial activity of di-heteryl substituted [1,2,4]triazolo [3,4-*b*][1,3,4]thiadiazoles** A new series of 3-(5-methyl-1-phenyl-1*H*-4-pyrazolyl)- 6-(5-methyl-1-aryl-1*H*-1,2,3-triazol-4-yl) [1,2,4] triazolo [3,4-*b*] [1,3,4]thiadiazoles **12a-j** have been prepared and assayed for their antibacterial activity against human pathogenic bacteria.



Ch Sanjeeva Reddy*, M Vani Devi, M Sunitha, B Kalyani & A Nagaraj

Department of Chemistry, University College, Kakatiya University, Warangal 506 009, India

- 598 A comparative study on the isolation and cerium (IV) ammonium nitrate mediated oxidative transformation of oleanolic acid and ursolic acid** Oleanolic acid and Ursolic acid, two pentacyclic triterpenes have been isolated and oxidized using cerium (IV) ammonium nitrate. The derivatives obtained have been characterized and their antibacterial activities have been studied.



Ratheesh S Nair, Ani Deepthi*, Adarsh K & Sidharth Chopra

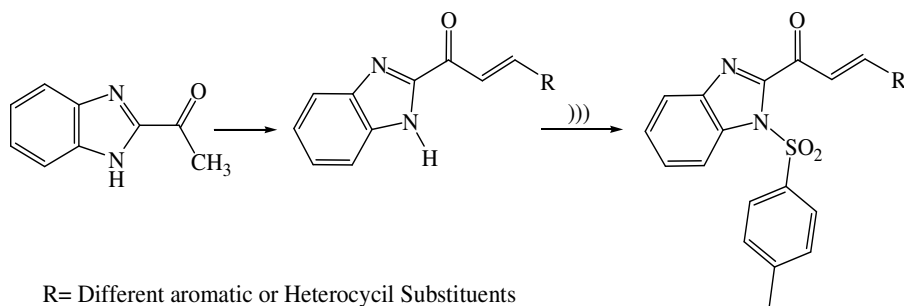
Department of Chemistry, University of Kerala, Thiruvananthapuram 695 581, India

- 604 An efficient synthesis of novel carbohydrate and thiosemicarbazone hybrid benzimidazole derivatives and their antimicrobial evaluation** A library of thiosemicarbazide hybrid 2-(aldopoly-hydroxyalkyl)-benzimidazole derivatives have been designed and synthesized with simple and eco-friendly methodologies. These novel synthesized compounds have been evaluated for their antimicrobial activity.

Shyamali N Panchal, Rajesh H Vekariya, Kinjal D Patel, Shraddha M Prajapati, Dhanji P Rajani, Smita D Rajani & Hitesh D Patel*

Department of Chemistry, School of Sciences, Gujarat University, Navrangpura, Ahmedabad 380 009, India

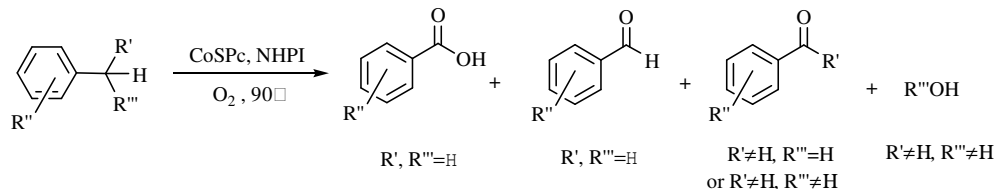
- 613 Ultrasound accelerated synthesis of novel benzimidazole derived chalcones as glucosidases inhibitor and antimicrobial agents**



Gangadhar A Meshram*, Vipul A Vala, Pramod A Wagh & Shruti S Deshpande

Department of Chemistry, University of Mumbai, Vidyanagari, Mumbai 400 098, India

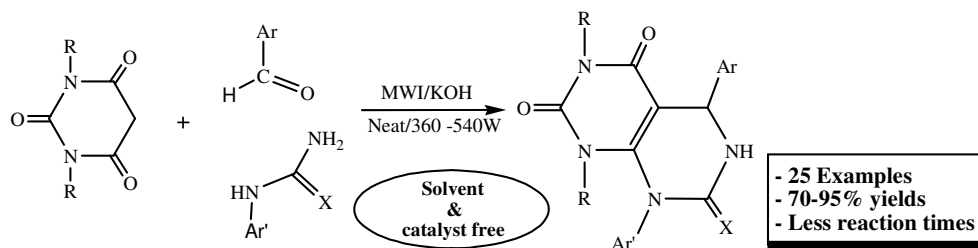
- 624 Aerobic oxidation of aromatics catalyzed by CoSPc and NHPI** An efficient method to convert aromatics into the corresponding oxides, catalyzed by a combined catalytic system consisting of CoSPc and NHPI, has been developed.



Yulu Zhou*, Shasha Lin, Yinghui Bian, Daohong Xia & Yuzhi Xiang

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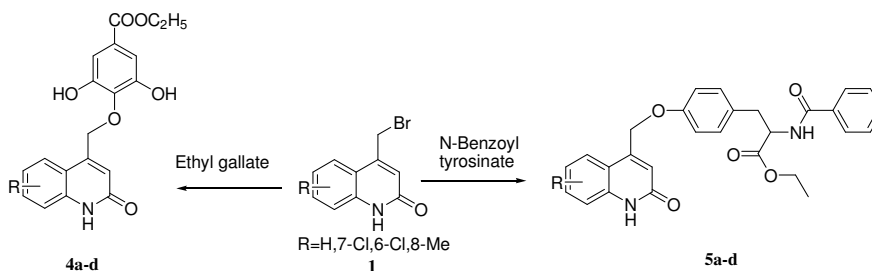
- 629 Catalyst and solvent free one-pot microwave synthesis of fused pyrimidine diones and triones**



Madhuri M Sontakke, Madhukar G Dhonde*, Chandrakant S Bhaskar & Baliram N Berad

Department of Chemistry, RTM Nagpur University, Nagpur 440 033, India

- 637 Synthesis and anti-bacterial evaluation of 4-aryloxy-methyl carbostyrils derived from substructures and degradation products of Vancomycin** Allylic ethers of carbostyrils with substructures and degradation products of Vancomycin have been found to be selectively active against Gram-positive bacteria, which in recent times have grown resistant towards Vancomycin.



Hrishikesh M Revankar, Shweta Arali, Shilpa Yakkerimath, Pooja P Revankar, Vijaykumar Naik, Ashish Anand & Manohar V Kulkarni*

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