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CONTENTS

Papers

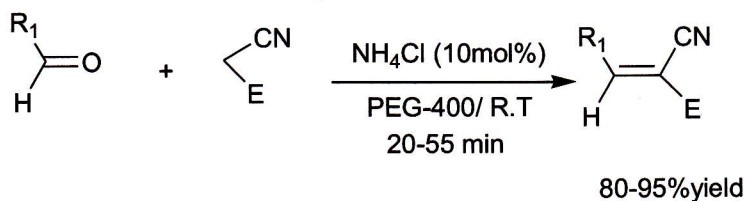
- 845 Rational design and expeditious synthesis of aromatic cyanodienone derivatives assisted by cyanide-halide exchange

Fatemeh Zeraatpisheh*, Fatemeh Abadast & Maryam Shahmorad

Department of Chemistry, Behbahan Khatam Alanbia University Technology, Behbahan, Iran

- 849 Ammonium chloride catalyzed Knoevenagel condensation in PEG-400 as ecofriendly solvent

Knoevenagel condensation of aldehyde with active methylene compounds has been achieved by using ammonium chloride catalyst in polyethylene glycol-400 as a green reaction solvent at room temperature. Reaction of various aryl/heteroaryl aldehyde with active methylene gives good to excellent yields with high stereoselectivity.



E = CO₂Et, CN, CONHCH₂Ph, COOH

Smita R Waghmare

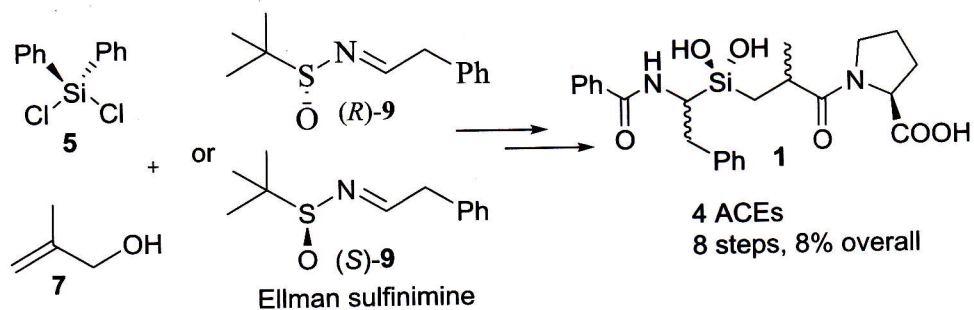
Center for Advanced Studies, Department of Chemistry, Savitribai Phule Pune University, Pune 411 007, India

- 856 Analogues designing for dephosphorylation of acetylcholinesterase enzyme

Nidhi Darmwal, B K Singh*, Bhanwar S Choudhary, Brajesh Sankar & Nithya Shanti

Department of Pharmaceutical Sciences, Kumaun University, Bhimtal, Nainital 263 139, India

866 An effective total synthesis of four angiotensin-converting enzymes containing silanediols



Hoan Quoc Duong* & Scott McNSieburth

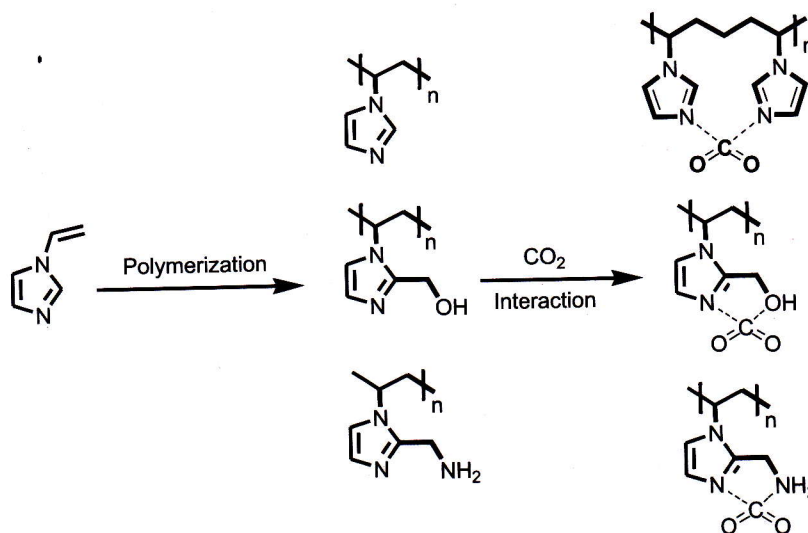
Department of Organic Chemistry, Faculty of Chemistry, Hanoi National University of Education, Hanoi, 136 Xuanthuy Street, Cau Giay, Hanoi 10000, Vietnam

874 Synthesis of new 2,2-dimethyl-2H-chromen derivatives as potential anticancer agents

Meghna Patel*, M N Noolvi & Zinal Patel

Department of Pharmaceutical Sciences, Saurashtra University, Rajkot 360 005, India

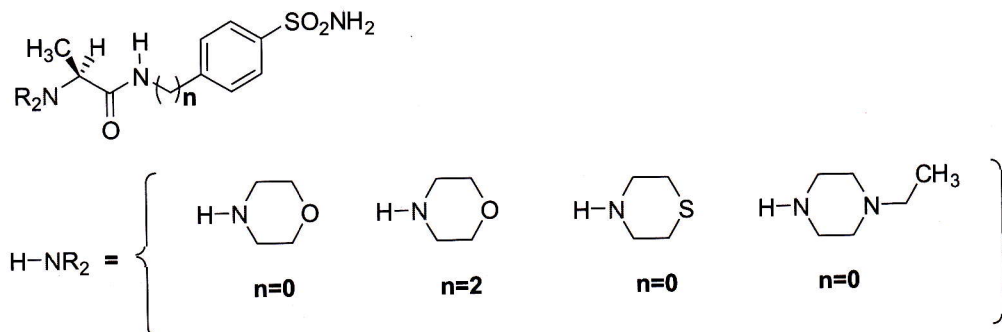
881 Ice-templated fabrication of porous imidazole based polymers for CO₂ adsorption



P M Nandanwar & R M Jugade*

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

- 888** Synthesis, characterization, cytotoxicity evaluation and physicochemical properties of some novel *N*⁴-substituted aminobenzenesulfonamides

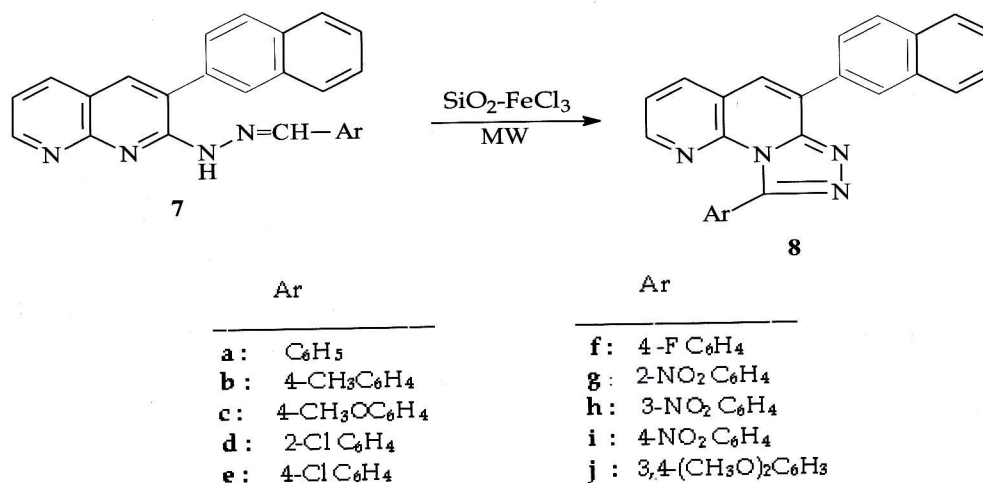


Mustafa Durgun, Gulay Zengin*, Huseyin Zengin, Ismail Koyuncu, Seda Turkoglu, Hasan Sonmez & Ali Kuru

Department of Chemistry, Faculty of Arts and Sciences, Harran University, Sanliurfa, 63290, Turkey

- 901** Design, synthesis and antibacterial activity of 9-aryl-6-(2-naphthyl)[1,2,4]triazolo[4,3-*a*][1,8]naphthyridines

A concise and highly efficient procedure has been described for the synthesis of 9-aryl-6-(2-naphthyl)[1,2,4]triazolo[4,3-*a*][1,8]naphthyridines **8** by the oxidation of the corresponding aryl aldehyde-1-[3-(2-naphthyl)[1,8]naphthyridin-2-yl]hydrazones **7** using silica gel supported ferric chloride (SiO_2-FeCl_3) in solvent-free conditions under microwave irradiation. The desired products are obtained in very good yields and in a state of high purity. The structure of compounds **3-8** have been confirmed by their spectroscopic (IR, 1H NMR and MS) and analytical data. The compounds **8a-j** have been screened for their antibacterial activity.



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