





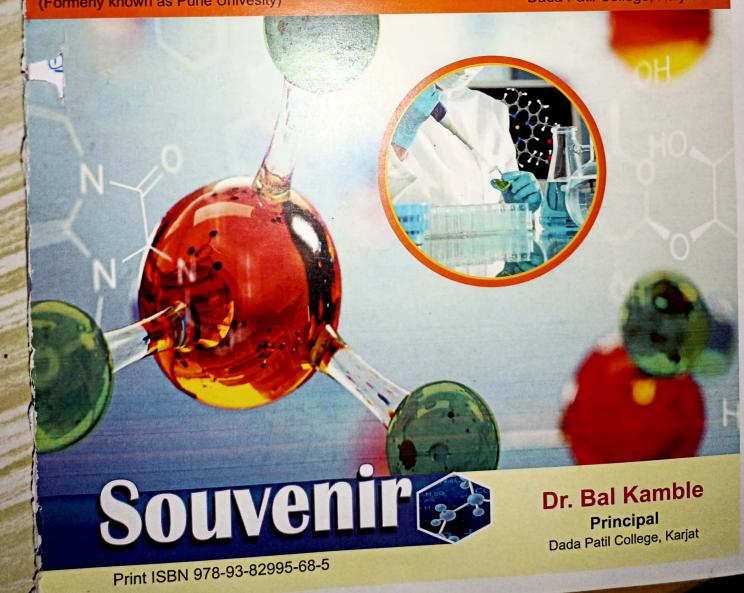
DADA PATIL COLLEGE, KARJAT Maharashtra, INDIA

Two Day National Seminar on Application of Green Solvents & Green Catalyst for Sustainable Industrial Development 23, 24 January 2020

Sponsored by:

Planning & Development, Savitribai Phule Pune University, Pune (Formerly known as Pune University)

Organized by:
Department of Chemistry
Dada Patil College, Karjat



INDEX

Abstract No	Title	Authors	Page No
1	Extraction, Isolation and Characterization of phytoconstituents form crude extracts of Moullavaspicata	D. G. Karpe, S.P. Lawande	1
2	Ultrasound Assisted Synthesis of Novel 1,2,4- Triazoles derived from 2-(3-fluorophenyl)-4- methylthiazole-5-carbohydrazide	Darekar N. R, Akolkar H. N., Karale B. K., Burungale A. S	8
3	One Pot Green Method For synthesis of 1, 3-Oxazine derivatives under aqueous medium"	Patil Shripad M, Ingale Ajit P, Pise Ashok S	13
4	Microwave Promoted Solvent-Free Biginelli Reaction for the One Pot Synthesis of Dihydropyrimidin-2-(1 <i>H</i>)-ones Catalyzed by waste aluminum foil.	G. C Wadhawa Harshada Deshmukh, V. S. Shivankar, Y. A Gaikwad.	19
5	Greener Methods for Environmental Cleanup	Kisan M. Kodam	25
6	Zeolites as a Heterogeneous Catalyst: Fundamental to Applications	Dr. M. K. Lande,	27
7	Active Copper Catalysed Regioselective Epoxide Ring Opening to form 1-Phenoxy-3-(Piperazin-1-YI)- Propan-2-ol"	Santosh S. Devkate, Arvind S. Burungale, Ashok S. Pise and Sunil D. Jadhav,	29
8	"CuSCN Catalysed Conjugate Addition of Organomanganese Reagents to the α,β-unsaturated Cyanoesters"	Mohan B. Kale, Shrikant B. Jagtap, Ashok S. Pise and Sunil D. Jadhav	30
9	Synthesis of Amidoalkyl Naphthols under Solvent- free Condition Catalysed by Citric Acid	Gurumeet C Wadhawa	31
10	Pineapple Juice: an efficient, recyclable and inexpensive catalyst for the one-pot synthesis of 1-amidoalkyl-2- naphthol	Gurumeet C Wadhawa , Yashwant A Gaikwad	32
11	Mechanochemical and Solvent Free Synthesis of Fluorinated Acetohydrazides	Pratibha Randhavane	33
12	Green Synthesis Of Nickel Oxide Nanoparticles By Electrochemical Reduction Method Using Sygizium Cumini Leaves Extract And It's Antibacterial Activity	A. A.Agale, S. M.Patil, S. T. Gaikwad, A. S. Rajbhoj	34
13	Quinoline-Tetrazole-1,2,3-Triazole Derivatives as Antimicrobial Agents: Synthesis, Biological Evaluation and Molecular Docking Study	Mubarak H. Shaikh, Hemant N. Akolkar, Bapurao B. Shingate	35
14	Ultrasound assisted synthesis and characterization of novel multifluorinated pyrazolone derivatives	Rutuja Bhoge, Jyoti Jadhav, Nirmala Darekar and Hemantkumar Akolkar	36
15	Iron Nanoparticles Modified Gold Electrode As Electrochemical glucose Sensor	A. A. Agale, S. M.Patil, S. T. Gaikwad, A. S. Rajbhoj	37
16	Fe-cuo: An efficient, robust and magnetically recyclable nanocatalyst for one-pot synthesis of 1, 4	D. N. Gaikwad, A. K. Deshmukh, R. K. Manjul,	38

Department of Chemistry, Dada Patil College and Planning & Development, SPPU, Pune.



ABSTRACT-8

"CuSCN Catalysed Conjugate Addition of Organomanganese Reagents to the α,β-unsaturated Cyanoesters"

Mohan B. Kale, Shrikant B. Jagtap*, Ashok S. Pise and Sunil D. Jadhav *Department of Chemistry, PDEA's, Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-411028.

ABSTRACT:

We have reported that regioselective 1,4- addition of CuSCN catalyzed organomanganese reagents to the cyanoesters. We have used Li2MnCl4 reagent to transmetallate copper (I) reagent in presence of Grignard reagent. It adds regioselectively to α,β -cyanoesters and forms 1,4- addition products with higher yield under nitrogen atmosphere and at lower temperature.

Experimental Procedure

n- Butylmagnesium bromide (10 mmol) were added to dry 10 ml THF, Copper (I) Catalyst added and stirred the content for 30 min, unsaturated cyanoester (10 mmol) in 5 ml dry THF were added over 20 min at 0 ° c, reaction monitored by TLC, after complete conversion, reaction quenched with salt solution of NH₄Cl and NH₄OH and stirred for 30 min, product extracted with diethyl ether (03x10 ml) and dried over anhydrous sodiumsulphate.