

CURRICULUM VITAE

Makarand A. Kulkarni

M. Sc.; Ph.D.

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CARRIER OBJECTIVE

I strongly believe in working together which will lead to implementation of innovative ideas, skills and exploring self potential and capacities for the continuous improvement to lead organization towards better productivity and mutual growth. I am quite interested in pursuing innovative ideas for designing and development of newer synthetic methods for organic transformations and their comprehensive analytical study for structure determination.

RESEARCH EXPERIENCES

- ❖ Currently working as Scientific Instrument Expert at Punyashlok Ahilyadevi Holkar Solapur University, Solapur since August 2013. While working as Instrument-Expert, established good consultancy contacts for sample analysis with various academic and non-academic organizations within Goa University, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad, Academic institutes in Vijaypur, Gulbarga, Dharwad as well as industries like Vamsi Laboratory, Solapur and Ross Life sciences Pvt. Ltd, Pune.
- ❖ Well experienced in handling sophisticated scientific instruments such as GC-MS (Make-Shimadzu-QP5050), NMR (300 and 400 MHz, Make-Bruker), XRD (Make-Rigaku), TGA-DSC (Mettler-Toledo), GC (Make-Agilent 6890), HPLC (Make-Shimadzu), Infra-Red spectroscopy (Make-Perkin-Elmer and Thermo scientific) and AAS (Make-Thermo scientific).
- ❖ Award of Senior Research Fellowship (SRF) by CSIR, New Delhi in February 2013.
- ❖ Worked as research-fellow on UGC, New Delhi sponsored Major Research project under the guidance of Prof. Uday. V. Desai at Department of chemistry, Shivaji

University, Kolhapur from March 2009 to February 2012.

- ❖ Worked as Project-Assistant-II on DBT sponsored Major Research project at National Chemical Laboratory, Pune under the guidance of Prof. Subhash. P. Chavan, Scientist-F Organic Chemistry Division, from July 2006 to April 2008. This project involves the development of an analytical method on GC and GC-MS for quantification of some internal bio-markers which are Vit. B₁₂ sensitive.

ACADEMIC QUALIFICATIONS

Ph.D.

May 2014, The doctoral degree of Shivaji University, Kolhapur was received for the research studies done in the area of Synthetic Organic Chemistry. The thesis entitled as “**Development of Green Methodologies for Synthesis of Biologically Active Compounds**” was submitted under the guidance of Prof. Uday V. Desai, Department of Chemistry, Shivaji University.

M. Sc.

April 2006, Analytical Chemistry from Shivaji University, Kolhapur, Maharashtra, India, with 66.79 % (first Class.)

B. Sc.

April 2004, Chemistry from D.B.F. Dayanand College, Solapur, Maharashtra, India, with 67.88 % (first Class.)

H. S. C.

February 2000, Physics, Chemistry, Biology, Geology & English from D.B.F. Dayanand College, Solapur, Pune Board, Maharashtra, India with 67.00 % (first Class.)

S. S. C.

March 1998, S.V.C.S. High School, Solapur Pune Board, Maharashtra, India, with General subjects obtained 73.46 % (First Class.)

PERSONAL DETAILS

Date of Birth : 14 January 1983
Nationality : Indian
Languages Known: Marathi, Kannada, Telgu, Hindi and English.
Gender : Male
Marital Status : Married

LIST OF PUBLICATIONS

- [1] Lithium tetrafluoroborate catalyzed highly efficient inter- and intramolecular aza-Michael addition with aromatic amines. U.P. Lad, **M.A. Kulkarni**, U.V. Desai, P.P. Wadgaonkar. *C. R. Chimie*. **2011**, *14*, 1059.
- [2] Mechanistic approach for expeditious and solvent-free synthesis of α -hydroxy phosphonates using potassium phosphate as catalyst. **Makarand A. Kulkarni**, Uday P. Lad, Uday V. Desai, Satish D. Mitragotri, Prakash P. Wadgaonkar. *C. R. Chimie*. **2013**, *16*, 148.
- [3] A practical and highly efficient protocol for multicomponent synthesis of β -phosphonomalononitriles and 2-amino-4H-chromen-4-yl phosphonates using diethylamine as a novel organocatalyst. **M.A. Kulkarni**, V.R. Pandurangi, U.V. Desai, P.P. Wadgaonkar. *C. R. Chimie*. **2012**, *15*, 745.
- [4] Diethylamine: A smart organocatalyst in eco-safe and diastereoselective synthesis of medicinally privileged 2-amino-4H-chromenes at ambient temperature. **Makarand A. Kulkarni**, Kapil S. Pandit, Uday V. Desai, Uday P. Lad, Prakash P. Wadgaonkar. *C. R. Chimie*. **2013**, *16*, 689.
- [5] A simple, economical, and environmentally benign protocol for the synthesis of 2-amino-3,5-dicarbonitrile-6-sulfanylpyridines at ambient temperature. Uday V. Desai, **Makarand A. Kulkarni**, Kapil S. Pandit, Aparna M. Kulkarni & Prakash P. Wadgaonkar. *Green Chemistry Letters and Reviews*. **2014**, *7:3*, 228.
- [6] Nickel ferrite nanoparticles–hydrogen peroxide: a green catalyst-oxidant combination in chemoselective oxidation of thiols to disulfides and sulfides to

- sulfoxides. Aparna M. Kulkarni, Uday V. Desai*, Kapil S. Pandit, **Makarand A. Kulkarni** and Prakash P. Wadgaonkar. *RSC Adv.*, **2014**, *4*, 36702.
- [7] Cellulose supported cuprous iodide nanoparticles (Cell-CuI NPs): a new heterogeneous and recyclable catalyst for the one pot synthesis of 1,4-disubstituted – 1,2,3-triazoles in water. Pramod V. Chavan, Kapil S. Pandit, Uday V. Desai, **Makarand A. Kulkarni** and Prakash P. Wadgaonkar. *RSC Adv.*, **2014**, *4*, 42137.
- [8] Tris-hydroxymethylaminomethane (THAM): a novel organocatalyst for an environmentally benign synthesis of medicinally important tetrahydrobenzo[b]pyrans and pyran-annulated heterocycles. Kapil S. Pandit, Pramod V. Chavan, Uday V. Desai, **Makarand A. Kulkarni** and Prakash P. Wadgaonkar. *New. J. Chem.*, 2015, *39*, 4452.
- [9] Diethylamine-catalyzed environmentally benign synthesis of 1-oxo-hexahydroxanthenes and bis-coumarins at ambient temperature. Ravindra V. Kupwade, Kapil S. Pandit, Uday V. Desai, **Makarand A. Kulkarni**, Prakash P. Wadgaonkar. *Res. Chem. Intermed.* July **2016**, Volume 42, Issue 7, 6313-6325.
- [10] Synthesis of oximes in aqueous medium using hyamine as an ecofriendly catalyst at ambient temperature. UP Lad, **MA Kulkarni**, RS Patil - *Rasayan J Chem* Vol.3, No.3, (**2010**), 425-428.
- [11] Diethylamine Dess–Martin periodinane: an efficient catalyst–oxidant combination in a sequential, one-pot synthesis of difficult to access 2-amino-3,5-dicarbonitrile-6-sulfanylpyridines at ambient temperature. RV Kupwade, SS Khot, **M.A. Kulkarni**, UV Desai, PP Wadgaonkar. *RSC Advances* *7* (62), **2017**, 38877-38883.

