

LIST OF PUBLICATION

1. Lipase catalyzed resolution of *trans*-11,12-bis(hydroxymethyl)-9,10-dihydro-9,10-ethanoanthracene: facile access to both enantiomers and the synthesis of their amino derivatives.
Nilesh Jain, Ashutosh V. Bedekar, *Tetrahedron: Asymmetry* **2011**, 22, 1176-1179.
2. Roof shape amines: synthesis and application as NMR chiral solvating agents for discrimination of α -functionalized acids.
Nilesh Jain, Monali Mandal, Ashutosh V. Bedekar, *Tetrahedron* **2014**, 70, 4344-4354.
3. Modified Kagan's amide: synthesis and application as a chiral solvating agent for hydrogen-bonding based chiral discrimination in NMR.
Nilesh Jain, Ravi B. Patel, Ashutosh V. Bedekar, *RSC Advance* **2015**, 5, 45943-45955.
4. Lipase catalyzed desymmetrization of roof shape *cis*-11,12-bis(hydroxymethyl)-9,10-dihydro-9,10-ethanoanthracene.
Nilesh Jain, Ashutosh V. Bedekar, *RSC Advance* **2015**, 5, 62678-62685.
5. Roof Shape Chiral Alcohol: Auxiliary for Asymmetric Synthesis of α -Halo Acid Derivatives.
Nilesh Jain, Ashutosh V. Bedekar, [Manuscript submitted]
6. Enhancing Enatio-discrimination Ability of CSA: A Chiral Amide Example
Nilesh Jain, Ashutosh V. Bedekar, [Manuscript under preparation]

Conference :

- 1. Attended a conference** at *National Symposium on Emerging Horizons in Catalysis (CATSYM-2009)*, Department of Chemistry, The Maharaja Sayajirao University of Baroda, Vadodara, September-2009.
- 2. Oral presentation** at *UGC-SAP National Symposium on Advances in Synthetic Methodologies and New Materials*, Department of Chemistry, Shivaji University, Kolhapur, January-2011.(Awarded 3rd prize)
- 3. Poster Presentation** at the *National Conference on Chirality (NCC-2011)*, Department of Chemistry, The Maharaja Sayajirao University of Baroda, Vadodara, December-2011.(Awarded 2nd prize)
- 4. Attended Work shop** National Workshop on Combined Application of Spectroscopy, S. P University, Sardar Patel University, Vallabh Vidyanagar, March-2012
- 5. Oral Presentation** at *1st Annual Conference on Science: Emerging Scenario & Future Challenges*, Shoolini University, Solan, Himachal Pradesh, March-2013.
- 6. Presented Poster** *National Magnetic Resonance Conference (NMRS-2013)*, Department of Chemistry, IIT-Bombay, Mumbai, February-2013
- 7. Participated** in DST-SERB Winter School on Computational Chemistry (**WSCC-2013**), S. P University , Sardar Patel University, Vallabh Vidyanagar, November -2013
- 8. Oral presentation** at the *National Conference on Chirality (NCC-2013)*, Department of Chemistry, The Maharaja Sayajirao University of Baroda, Vadodara, December-2013.(Awarded 2nd prize)
- 9. Poster Presentation at National organic symposium Trust J-NOST** in IIT-Madras Chennai, December 2014.