

Dr. Avula Satya Kumar

34 Years

Chemistry

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I worked on the total synthesis of bioactive Natural Products, development of new synthetic methodologies and chemical investigation on *Jatropha multifida*. *During the course of this work, 'asymmetric synthesis' technique was extensively used*. I completed my PhD from IICT (INDIA), after which I chose to explore new horizons. My postdoctoral research in UKZN is based on an effort towards the cyclization of 1,6-Enynes and Synthesis of Chiral N, P ligands and their application in asymmetric catalysis. I am particularly motivated by challenges requiring a high sense of initiative and adaptability.

INDIA

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Торіс	Methodology					Application
 The total synthesis of bioactive compounds Isolation of Natural products Development of new synthetic methodologies Asymmetric catalysis 	*	Development methodologies	of and thei	new r applicati	synthetic ons.	 Anti viral activity Anti fungal activity anti cancer activity Enanstiomeric excess

UKZN main Publications

 Simple Proline-Derived Phosphine-Thiazole Iridium Complexes for Asymmetric Hydrogentation of Trisubstituted Olefins", Nattawut Yotapan, Alexander Paptchikhine, Milan Bera, A. Satya Kumar, Tirayut Vilaivan, Pher G. Andersson, Asian. J. Org. Chem. 2013, 2, 674-680

Past Researches

 Simple Stereoselective Synthesis of Unsaturated Lactone Intermediates and Their Conversion into Natural dihydropyranones and Their Enantiomers#, Digambar Balaji Shinde, Boddu Shashi Kanth, A. Satya Kumar, V.T. Kamble and Biswanath Das, Lett. In Org. Chem. 2013, 10, 317-323

Future Interests

- Total Synthesis
- Asymmetric catalysis
- Development of new synthetic methodologies

Extra Interests

Sports (Cricket), Chess, carroms and listening music