Curriculum Vitae

Dr. Mangesh Nivrutti Potangale

M. Sc. Ph.D (**Physical Chemistry**)

C/o: Prof. Chandu Potangale

New Arts, Commerce and Science college,

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Objective:

To work in a professionally managed scientific environment this can provide me an opportunity for learning and growth. Seek a chance to improve the productivity and effectiveness of the research through my skills and knowledge.

Education Qualifications:

Ph. D. October 2019, Thesis title on "Physicochemical properties of

non-imidazolium based ionic liquids: structure and

interaction"

Research supervisor: Dr. Shraeddha Tiwari (Assistant Professor) **University:** Institute of Chemical Technology, Mumbai, India.

Master of Science June 2012, Project title on "Removal of nickel ions from activated charcoal and chitosan"

Research supervisor: Prof. Nileema S. Rajurkar (Emeritus Professor)

University: Savitribai Phule Pune University, India.

Second class (57.7%) with specialization in Physical Chemistry, Savitribai Phule Pune University, India.

Bachelor of Science June 2010, First class with distinction in Chemistry, Savitribai Phule Pune University, India.

Professional Experience:

❖ Modern college of Arts, Science and Commerce, Shivajinagar, Pune Designation: - Guest Lecturer, Department of chemistry. Duration:- From Janeary-2013 to May 2013

❖ Nowrosaji Wadia College of Arts, Science and Commerce, Pune

Designation: - Guest lecturer

Department: - Chemistry

Duration: - From June-2013 to August 2013.

❖ Institute of Chemical Technology, Matunga, Mumbai

Designation: - Visiting faculty
Department: - Chemistry

Duration: - From June-2019 to November 2019.

- Mentored various research projects for undergraduate and post graduate students (Sep. 2013 to Dec. 2018) (Research area: Ionic liquids, physicochemical properties, Spectroscopy etc.)
- ❖ Conducted Physical chemistry laboratory practical of B. Tech. and B. Chem. Eng. at Institute of Chemical Technology, Mumbai (2013-2018)
- ❖ Conducted analytical chemistry laboratory practical of B. Tech. at Institute of Chemical Technology, Mumbai (2013)

Academic Achievements:

- **❖ Junior Research Fellowship** from UGC-SAP (Sep-2013-Nov2015)
- **Senior Research Fellowship** from UGC-SAP (Nov-2015- Sep 2018)
- ❖ Qualified "GATE 2012 Examination" with All India Rank-3699.

Research Publications:

- ❖ Mangesh Potangale , Abhishek Das , Sudhir Kapoor, Shraeddha Tiwari "Effect of anions and alkyl chain length on the structure and interactions of *N*-alkyl pyridinium ionic liquids" Journal of molecular chemistry, 2017, **240**, 694–707.
- **❖ Mangesh Potangale**, Shraeddha Tiwari

"Correlation of the empirical polarity parameters of solvate ionic liquids (SILs) with molecular structure (**Accepted in J. Mol. Liq. 2019** DOI: 10.1016/j.molliq.2019.111882)

- **❖ Mangesh Potangale**, Shraeddha Tiwari
 - "Binary mixtures of pyridinium ionic liquids and DMSO-d6 (Manuscripts under review)
- ❖ Mangesh Potangale, Shraeddha Tiwari
 - "Dissolution of Solvate Ionic Liquids by Molecular Solvents: A Vibrational Spectroscopic Study (Manuscripts under preparation)

Conference presentations and Workshop:

- ❖ A poster presented at "Temperature Dependent Empirical Polarity Parameters Of Solvate Ionic liquid", 4th ISCB Frontier Research in Chemistry & Biology Interface, Jaipur (January 2018)
- ❖ A poster presented at "Binary mixtures of pyridinium ionic liquids and DMSO-d6", BITS Pilani, Goa (January 2017)
- ❖ A poster presented at "Dissolutions of solvate ionic liquids: A vibrational spectroscopic study" Faraday discussions Murray Edwards College, University of Cambridge, UK (September 2017)
- ❖ A poster presented at "**Effect of anion and alkyl chain length** *N*-methyl pyrrolidinium ionic liquids" West Bengal, (February 2016)

 A poster presented at "Vibrational spectroscopic study of ionic liquid system structure and interaction", 17th CRSI National Symposium in Chemistry, NCL Pune,, Mumbai (Feb2015)
- ❖ Actively participated in "**Laboratory Safety Workshop**" organized by Institute of Chemical Technology (ICT), Mumbai, India from 20th to 21st March, 2014

Achievements and Awards:

❖ 2nd prize awarded in the "Chemistry quiz" ICT, Mumbai. (March. 2014)

Technical Skills:

- ❖ Expertise in handling of various instruments such as, HPLC,GC-MS, UV, FT-IR, CHNS, Particle size analyzer(BET-Analyzer) , PH-Meter, Conductometer, Potentiometer, and Tensiometer.
- ❖ The synthesis of ionic liquids and their structural elucidation by using various characterization techniques Raman spectroscopy, ¹H-NMR, FT-IR etc.
- ❖ Dedication to a safe and clean work environment and ability to work independently or in multi-disciplinary teams and to deliver high-quality results.
- **Excellent presentation skill** and able to write **research articles and proposals**.
- **Expertise** in handling software's such as **Mestronova**, **Chemdraw**, **origin** etc.
- ❖ Literature survey using **Reaxys**, **Sci-finder**, **Scopus** etc.

Extra Curricular activity:

- ❖ Successfully completed a Two days course on "Laboratory Safety" conducted by Dept. of chemistry, Institute of Chemical Technology Matunga- Mumbai, 2013.
- ❖ Volunteer for DST-FIST presentation program organized by Institute of Chemical Technology, Mumbai (2014).

❖ Volunteer for Two days course on "Laboratory Safety" conducted by Dept. of Chemistry, Institute of Chemical Technology Matunga- Mumbai, 2013.

Research Interest:

- Design, synthesis and application of ionic liquids and their physicochemical properties.
- Design, synthesis and solvatochromic properties of solvate ionic liquids and their applications.

Personal information:

➤ Date of Birth : 16 July 1990.

Nationality : Indian.Marital Status : Unmarried.

Language known : English, Hindi, Marathi.

Permanent address : A/P- Narangal (Bk), Tal- Degloor,

Dist- Nanded (Maharashtra), Pin- 431723

References:

Dr. Shraeddha Tiwari

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Department of Chemistry,

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I declare that the foregoing information is correct and complete to the best of my knowledge.