

## Ravindra Krushanji Raut

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## Educational Qualification

<b>PhD Chemistry</b> (CGPA 8.5)	2015 - 2020	<b>Indian Institute of Science Education and Research, Pune, India</b> Supervisor: Dr. Moumita Majumdar Thesis Title: <i>Synthesis, Characterization and Application of Main Group Compounds in Organic Transformations.</i>
<b>M.Sc. Organic Chemistry</b> (First Class)	2010 - 2012	<b>University of Pune, Pune, India</b>
<b>B.Sc. Chemistry</b> (First Class)	2007 - 2010	<b>University of Pune, Pune, India</b>

## Research Experience

<b>IISER Pune</b>	Jan, 2015 – Nov, 2020	<b>Designation</b> Senior Research Fellow ( <b>Dr. Moumita Majumdar</b> ) <b>Project:</b> <i>Synthesis, characterization and application of main group compounds in organic transformations</i>
<b>NCL, Pune</b>	Feb, 2013 - Dec, 2014	<b>Designation</b> Project Assistant ( <b>Dr. Darbha Srinivas</b> ) <b>Project</b> <i>Catalysis for sustainable energy</i> 1. Development of heterogeneous catalyst. 2. Conversion of biomass to biofuels.
<b>Mylan Laboratories</b>	July, 2012 - Feb, 2013	<b>Designation</b> Trainee Chemist <b>Work Profile</b> Analytical Instrument Operator (HPLC, GC)

## Publications

- Devesh Maurya, Joy Karmakar, Padmini Sahoo, **Ravindra K. Raut** and Moumita Majumdar\* Versatile Bridging Modes of N<sub>2</sub>X<sub>2</sub> (X = O, S and P) Ligands towards [GeCl]<sup>+</sup> and AuCl Units. *Inorg. Chim. Act.* DOI: 10.1016/j.ica.2019.119383
- Ravindra K. Raut**, Padmini Sahoo, Dipti Chinnapure and Moumita Majumdar\* Versatile Coordinating Abilities of Acyclic N<sub>4</sub> and N<sub>2</sub>P<sub>2</sub> ligand Frameworks in Conjunction with Sn[N(SiMe<sub>3</sub>)<sub>2</sub>]<sub>2</sub>. *Dalton Trans.* **2019**, 48, 10953-10961.
- Padmini Sahoo, **Ravindra K. Raut**, Devesh Maurya, Vikas Kumar, Pooja Rani, Rajesh G. Gonnade and Moumita Majumdar\* Stabilization of Bis(chlorogermylumylidene)s Within Bifunctional PNNP ligand Frameworks and their Reactivity Studies. *Dalton Trans.* **2019**, 48, 7344-7351.
- Ravindra K. Raut** and Moumita Majumdar\* A pyramidal Tin(II) Dications and its Reactivity Studies. *J. Organomet. Chem.* **2019**, 887, 18-23.
- Moumita Majumdar\* **Ravindra K. Raut**, Padmini Sahoo and Vikas Kumar Bis(chlorogermylumylidene) and its Significant Role in Elusive Reductive Cyclization. *Chem. Commun.* **2018**, 54, 10839.
- Ravindra K. Raut**, Sheikh Farhan Amin, Padmini Sahoo, Vikas Kumar and Moumita Majumdar\*. One-Pot Synthesis of Heavier Group 14 N-Heterocyclic Carbene Using Organosilicon Reductant. *Inorganics* **2018**, 6, 69.
- Ravindra K. Raut** and Moumita Majumdar\* Direct Coordination of Germanium(II) Dicationic Center to Transition Metals. *Chem. Comm.* **2017**, 53, 1467-1469.

‘Cover Page Communication’ and Highlighted in ‘Chemistry Views’ News. Link - [http://www.chemistryviews.org/details/news/10353731/Germanium\\_Dications\\_as\\_Ligands.html](http://www.chemistryviews.org/details/news/10353731/Germanium_Dications_as_Ligands.html)

8. **Ravindra Raut**, Vikram Bankar and Srinivas Darbha\* Catalytic Decarboxylation of Non-edible Oils over Three Dimensional, Mesoporous Silica-supported Pd. *J. Mol. Catal. A: Chem.* **2016**, *417*, 127-134.
9. **Ravindra K. Raut**, Mehejabeen Shaikh and Srinivas Darbha\* Synthesis of Fatty Monoester Lubricant Base oil Catalyzed by Fe-Zn Double-metal Cyanide Complex. *J. Chem. Sci.* **2014**, *126*, 997-1003.

## Teaching Experience

Teaching Assistance for Basic Inorganic Chemistry	Class - Second Year (Under Graduate Students)	Fall 2016 Fall 2017
Teaching Assistance for Advance Inorganic Chemistry Lab	Class - Third Year (Under Graduate Students)	Spring 2017

## Fellowships

1	Maharashtra State Merit Scholarship	2007-2009
2	IISER Doctoral Fellowship	2015-2018
3	Senior Research Fellowship CSIR India	2018-2020

## Poster and Oral Presentations

1. Talk in ICSIC-2019 conference “**Reductive coupling of Bis( $\alpha$ -Iminopyridine) assisted by Bis(chlorogermylumylidene)**”.
2. Talk in ChemSymphoria – 2019 symposium “**Group 14 E(II) (E=Ge,Sn) polycations syntheses and their application in Organic Transformation**”.
3. Poster Presentation in MTIC-2017 conference “**Isolation of Germanium (II) dication with stereochemically active lone pair: coordination to transition metal**”.

## Extracurricular activities

1. Volunteer for the ‘**Salter’s Chemistry Camp**’ organized by **RSC and Salters Institute, UK**
2. Organized In-house Symposium ‘**ChemSymphoria-2018**’ in IISER Pune.

## References

<b>Dr. Moumita Majumdar</b> Associate Professor, Indian Institute of Science Education and Research, Pune India - 411008. Phone: +91-20-2590-8260 Fax: +91-20-2590-8186 Email: <a href="mailto:moumitam@iiserpune.ac.in">moumitam@iiserpune.ac.in</a> Web: <a href="https://mmajumdar.weebly.com/">https://mmajumdar.weebly.com/</a>	<b>Dr. Darbha Srinivas (Emeritus Scientist)</b> Chief Scientist, CSIR-National Chemical Laboratory, Pune India - 411008. Phone: +91-20-2590-2018 Email: <a href="mailto:d.srinivas@ncl.res.in">d.srinivas@ncl.res.in</a> Web: <a href="http://academic.ncl.res.in/profile/d.srinivas">http://academic.ncl.res.in/profile/d.srinivas</a> <a href="https://www.researchgate.net/profile/Srinivas_Darbha">https://www.researchgate.net/profile/Srinivas_Darbha</a>
<b>Prof. Avinash Kumbhar</b> Department of Chemistry, Savitribai Phule Pune University (Formerly University of Pune) Pune India - 411008. Phone: +91-20-2560-1395 Fax: +91-20-2569-1728 Email: <a href="mailto:askum@chem.unipune.ac.in">askum@chem.unipune.ac.in</a> Web: <a href="http://chem.unipune.ac.in/~askum/home.html">http://chem.unipune.ac.in/~askum/home.html</a>	<b>Dr. Sujit Ghosh</b> Associate Professor, Indian Institute of Science Education and Research, Pune India - 411008. Phone: +91-20-2590-8076 Fax: +91-20-2590-8186 Email: <a href="mailto:sghosh@iiserpune.ac.in">sghosh@iiserpune.ac.in</a> Web: <a href="http://skg-lab.acads.iiserpune.ac.in/">http://skg-lab.acads.iiserpune.ac.in/</a>