
CURRICULUM VITAE

PERSONAL INFORMATIONS:

Name: Dr. TISTA SENGUPTA

Permanent Address:

Opposite RNR Medicare
Beltala, Fartabad Road
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PROFESSIONAL AND ACADEMIC RECORDS:

- 2020- present Assistant Professor of Chemistry at Kulti College, Paschim Bardhaman, Kaji Nazrul University.
- 2019-2020 Contractual teacher (later SACT-I) at South Calcutta Girls' College.
- 2018- 2019 Guest lecturer at Scottish Church College and Milli Al Ameen college (for girls).
- 2015-2018 Dr. D.S. Kothari post-doctoral fellowship in University of Calcutta.
- 2014 Awarded doctorate degree in chemistry by the University of Calcutta in June, 2014.
- 2009-2013 Pursued Ph.D. (Sc.) in Synthetic Organic Chemistry, Department of Chemistry, University of Calcutta, West Bengal, India.
Ph.D. Supervisor: Dr. Dilip Kumar Maiti.
- 2005-2007 Master of Science (M.Sc.) (Organic Chemistry), Jadavpur University, West Bengal, India. (69.1%)
- 2002-2005 Bachelor of Science [B. Sc. Chemistry(H)], Jadavpur University, West Bengal, India. (70.7%)
- 2002 H.S., W.B.C.H.S.E, West Bengal, India. (88.1%)
- 2000 Madhyamik, W.B.B.S.E, West Bengal, India. (88.25%)

ACADEMIC ACHIEVEMENTS:

- Qualified **Joint CSIR-UGC NET** examination in Chemical sciences held on June, 2008 in CSIR Category.
- School topper at Secondary and Higher Secondary level.

RESEARCH INTEREST:

Studies on selective C-H bond activation, functionalization and activation:
Chemo, Regio- and stereoselective synthesis of highly functionalized N-heterocycles.

SKILLS:

Instruments Familiar with:

- Single crystal X-ray diffractometer (Bruker APEX-II SMART CCD)
- HPLC (Shimadzu)
- Dynamic Light Scattering (Malvern)
- FT-IR (Bruker and Perkin-Elmer)
- GC-MS (Perkin-Elmer)

Computer skills:

- **Operating Systems:** Windows.
- **Software Familiar with:** MS-Office, Chem Office, Origin.
- **Crystallography:** Softwares related to crystallography (APEX and WINGX) and softwares related to structural analyses (XP in DIAMOND and MERCURY)

Languages:

- **Bengali**
- **English**
- **Hindi**

SYMPOSIA AND CONFERENCES:

- *National Science day Celebration-2024 on Science for a sustainable future, 03rd March 2024, Kulti College, Paschim Bardhaman. (Joint Convener)*
- *National Webinar organized by Department of Chemistry and IQAC, Kulti College, on Celebration of Acharya Prafulla Chandra Ray's 160th Birthday, 02nd August 2021, Kulti College, Paschim Bardhaman. (Convener)*
- *International Seminar on Elements of Periodic Table in the Chemical Avenues of Biological World, 17th December 2019, South Calcutta Girls' College, Kolkata. (Joint Convener)*
- *International Symposium on Frontiers of Functional Materials, 6-7th January 2009, University of Calcutta, Kolkata.*
- *International Symposium on Organic Chemistry: Trends in 21st Century, 10-12th December, 2009, Indian Association for the Cultivation of Science.*
- *International Symposium on Facets of Weak Interactions in Chemistry, 13-15th January 2011, University of Calcutta, Kolkata.*
- *UGC-sponsored National Conference on Modern Trends of Chemistry In The 21st Century, 2012, St. Paul's College, Kolkata.*
- *International Symposium on Molecular Organization and Complexity: A Chemical Perspective, 6- 8 February, 2013, University of Calcutta, Kolkata.*
- *5th International Symposium on Drug Development for Orphan/Neglected Diseases, 26-28 February, 2013, CTDDR, Lucknow.*

Poster Presentation:

1. Design, Synthesis and Fabrication of Organic Nanostructured Materials and Studies of Their Gluing Noncovalent Weak Interactions
T. Sengupta, K. S. Gayen, P. Pandit and D. K. Maiti*, *International Symposium on Facets of Weak Interactions in Chemistry, 13-15th January 2011, p-36, University of Calcutta, Kolkata.*
2. N-H and C-H Activated Intermolecular Cyclization with FeCl₃.6H₂O: Complete Regio- and Diastereoselective Synthesis of 2-Pyridone Analogues
Tista Sengupta, and Dilip K. Maiti*, UGC-sponsored National Conference on Modern Trends of Chemistry In The 21st Century, St. Paul's College, Kolkata.
(Awarded 2nd prize)
3. Metal-free Intermolecular Cascade Cyclization Of a Three Component Assembly To Access Hexahydropyrrolizine With Excellent Regio-, Diastereo- And Enantioselectivity
Tista Sengupta, Saikat Khamarui, Srikanta Samanta and Dilip K. Maiti*, *5th International*

Symposium on Drug Development for Orphan/ Neglected Diseases, 26-28th February 2013, p-271, CTDDR-Lucknow.

LIST OF PUBLICATIONS:

1. Synthetically useful noncatalytic strategy: A stereocontrolled rapid cyclization of a three component assembly to hexahydropyrrrolizines.

Tista Sengupta, Saikat Khamarui, Srikanta Samanta and Dilip K. Maiti*
Chem. Commun. **2013**, 49, 9962-9964.

2. FeCl₃(H₂O)₆ catalyzed intermolecular cascade cyclization of acetoacetanilide: Aldehyde tuned synthesis to valuable 2-pyridone analogues

Tista Sengupta, Krishnanka S. Gayen, Palash Pandit and Dilip K. Maiti* *Chem. Eur. J.* **2012**, 18, 1905-1909.

3. Cu(0) nanoparticle catalyzed efficient reductive cleavage of isoxazoline, carbonyl azide and domino cyclization in water medium

Krishnanka Shekhar Gayen, **Tista Sengupta**, Yasmin Saima, Adita Das, Dilip K. Maiti*
and Atanu Mitra *Green Chem.* **2012**, 14, 1589-1592.

4. Sequential activation of σ -bonds: Intermolecular cascade annulation with migration and remote functionalization

Dipankar Dhara, **Tista Sengupta**, Saikat khamarui, Shukla Ghosh*, Dilip K. Maiti*
J. Indian Chem. Soc. **2013**, 90, 1663-1673.

5. Fabrication of High-Valent Manganese Nanoparticles: Easy Syntheses of Isoxazolines and Isoxazoles with Excellent Regio- and Stereoselectivity

Yasmin Saima, Tanmoy Ghosh, Rituparna Maiti, **Tista Sengupta**, Saikat Khamarui, Dilip K. Maiti*
NanoMatChemBioDev. **2018**, 1, 1-15

Book Chapter(s):

1. সমকালীন সাহিত্য ও বিজ্ঞানঃ কবিগুরুর “বিশ্বপরিচয়”, সাহিত্যঃ বহুমাত্রিক বীক্ষণ, ২০২৪, পৃ ২৭-৩২, সম্পাদকঃ বরুণ সীট, ডঃ সোমনাথ সিনহা।