

Curriculum Vitae

Personal Details

Dr. Togati Naveen

Assistant Professor

Department of Chemistry

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Date of Birth: 11th July 1987

Nationality: Indian

Marital Status: Married



Academic Profile

2017-2019 SERB-NPDF, CSIR-IICT Hyderabad, Hyderabad [**Advisor: Dr. Rajender Reddy**]

2016 Aug-Dec Research Associate, IIT Bombay, Mumbai

2011-2016 **Ph. D in Catalysis and Synthetic Methodology, IIT Bombay, Mumbai, India**

Thesis title: Transition Metal Mediated C-H Functionalization towards Heterocycles Synthesis [**Supervisor: Prof. Debabrata Maiti**]

2009-2011 Lecturer, Narayana IIT Academy, Hyderabad (2 years)

2007-2009 Master of Science in Organic Chemistry (First Class with 66.87%), Kakatiya University, Warangal

2004-2007 Bachelor of Science with Honors in Chemistry, Mathematics, and Physics (First Class with Distinction 83.05%), Kakatiya University, Warangal

Expertise and Skills

- ❖ Expertise with the synthesis, purification, and characterization of various organic compounds on the gram and milligram scale
- ❖ Performing Deuterium and other labeling studies
- ❖ Reaction monitoring and evaluating the kinetic data with the help of NMR and GC
- ❖ Well-versed in modern synthetic organic techniques, transformations, and stereochemistry
- ❖ Robust knowledge in spectroscopy: NMR (1D and 2D: COSY, HSQC, HMBC, NOESY, etc.), GC, GC-MS, LC-MS, HPLC, UV-VIS & FT-IR instruments
- ❖ Dexterous in separation techniques: Column Chromatography, Flash Chromatography & Thin Layer Chromatography

- ❖ Experience in synthesis and handling of highly air and moisture-sensitive compounds using glovebox and Schlenk line

Research Interests

- ❖ Green Chemistry [Microwave reactions, On-water reactions, Fe, Cu, Zn, Mn, Co catalysis]
- ❖ Heterocycles Synthesis *via* C–H Functionalization
- ❖ Organic Synthesis
- ❖ Photoredox Catalysis
- ❖ Hypervalent Iodine Chemistry
- ❖ Metal-free C–H Functionalization

Research Highlights

- ❖ H-index = **20**
- ❖ Publications = **48**
- ❖ Patents = **1 (granted)**
- ❖ Citations = **1848**
- ❖ Orcid Id: <https://orcid.org/0000-0003-3424-4348>
- ❖ Google Scholar Id: <https://scholar.google.com/citations?user=cQzxV5kAAAAJ>

Teaching Areas

- ❖ Synthetic Organic Chemistry (Reaction Mechanism; Reaction Intermediates; Named Organic Reactions)
- ❖ Stereochemistry; Reagents in Organic Synthesis
- ❖ Pericyclic Reactions; Organic Photochemistry
- ❖ Heterocyclic Chemistry
- ❖ Spectroscopic Techniques (NMR, IR, UV-VIS, Mass Spectrometry, GC and GC-MS & HPLC)
- ❖ Organometallic Chemistry; Engineering Chemistry

Awards and Honors

- ❖ **Thieme Chemistry Journals Award 2026**, Link: <https://www.thieme.de/en/thieme-chemistry/thieme-chemistry-journals-award-107359.htm>
- ❖ 2011 Qualified National Eligibility Test (**NET-2011**) conducted by CSIR, New Delhi, India.
- ❖ Awarded with **Junior Research Fellowship** by the Council of Scientific and Industrial Research (CSIR-JRF), Govt. of India 2011-2013.
- ❖ Awarded with **Senior Research Fellowship** by the Council of Scientific and Industrial Research (CSIR-SRF), Govt. of India 2013-2016.
- ❖ Awarded with **National Post-Doctoral Fellowship** by Science and Engineering Research Board, Govt. of India by 2017-2019.

Publications

1. Desai Bhavyesh, Arti Ramani, Yash Dhaduk, Anilkumar Kommoju, Piyushkumar Satani, Kishor Padala*, **Togati Naveen*** One-pot synthesis of α -(OCH₂CF₃)-substituted pyridines using TFE as both a solvent and a reagent *Organic & Biomolecular Chemistry*, **2026**, 24, 1268-1273. (Impact Factor: 3.98)
2. Monak Patel; Rishukumar Panday; Bharatkumar Z. Dholakiya; **Togati Naveen*** Copper-catalyzed N–H bond chalcogenation of anilines. *Org. Chem. Front.*, **2025**, 12, 754-759. (Impact Factor: 4.7)
3. Anilkumar Kommoju, Saraswathy Ramalingam, Saikumar Boddepalli, Sabbasani Rajasekhara Reddy, Saratchandra Babu Mukkamala, Chenna Reddy Mallu, Mahender Khatravath, **Togati Naveen*** Kishor Padala* Iron photocatalysis in dual catalysis: forming C–C and C–X bonds *Chem. Commun.*, **2025**, 61, 15930-15952. (Impact Factor: 4.2)
4. Bhoomikaben Panchal, Bhaveshkumar Panchal, Mrinal Talukdar, Anindita Bhar, **Togati Naveen*** and Eeshwaraiah Begari* Bismuth (III)chloride catalyzed one-pot synthesis of thioenol ethers from 1,3-dicarbonyls/2-oxindoles under ultrasonic irradiation. *Organic & Biomolecular Chemistry*, **2025**, 23, 4934-4939 (Impact Factor: 3.98)
5. Sanjeev Kumar, Pradeep Girase, Sayali Pradeep Jadhav, Bhargav Desai, **Togati Naveen***, Vinaykumar Kanchupalli*, Rh(III)-Catalyzed Regioselective [3+2]-Annulation of Indoles with 1,3-Enynes to Access 3H pyrrolo[1,2-a]indol-3-ones, *Asian J. Org. Chem.*, **2025**, DOI: <https://doi.org/10.1002/ajoc.202400810> (Impact Factor: 3.3)
6. Desai Bhavyesh, Arti Ramani, Monak Patel, Akshay Bharodiya, Sudha Soliya, Kishor Padala, **Togati Naveen***, Microwave-Assisted Metal-Free Synthesis of Vinyl Sulfoxides Using DMSO as Solvent and Reagent, *Asian J. Org. Chem.*, **2025**, DOI: <https://doi.org/10.1002/ajoc.202500210> (Impact Factor: 3.3)
7. Piyushkumar Satani, Sudha Soliya, Bharatkumar Prajapati, Kuldeep Joshi, Subrata Dutta, **Togati Naveen*** Copper-Mediated C(sp²)-S Coupling: A Strategy for the Preparation of S-Aryl Di thiocarbamates, *Asian J. Org. Chem.*, **2025**, DOI: [10.1002/ajoc.202500419](https://doi.org/10.1002/ajoc.202500419) (Impact Factor: 3.3)
8. Bhargav Desai, Akshay Bharodiya, Shruti Seshathre, Raj N Patel, Bharatkumar Dholakiya, Piyushkumar Satani, Vinaykumar Kanchupalli, **Togati Naveen***, Microwave-Assisted Copper-Catalyzed Electrophilic Amination of Arylboronic Acids: A Rapid Approach to Arylhydrazides, *Synlett* **2025**; 36(09): 1252-1256.
9. Arti Ramani, Eeshwaraiah Begari* and **Togati Naveen*** Copper-Catalyzed N-Formamidomethylation of Sulfonamides via sp³ C-H Activation. *ChemistrySelect* **2025**, DOI: [10.1002/slct.202501889](https://doi.org/10.1002/slct.202501889) (Impact Factor: 2.3)
10. Akshay Bharodiya, Bhargav Desai, Areti Sivaiah, Eeshwaraiah Begari, **Togati Naveen*** Microwave-Assisted Catalyst-Free Synthesis of Acridine 1,8-Diones Using PEG/Water as Solvents *ChemistrySelect* **2025**, DOI: <https://doi.org/10.1002/slct.202503273> (Impact Factor: 2.3)
11. Sudha Soliya, Piyushkumar Satani, Ketan Kuperkar, **Togati Naveen*** Sivaiah Areti On water: Catalyst-free ring-opening aminolysis of dihydrocoumarin for amide bond formation *Journal of the Indian Chemical Society* **2025**, DOI: <https://doi.org/10.1016/j.jics.2025.101697>
12. Desai Bhavyesh; Sudha Soliya; Ramaiah Konakanchi; Eeshwaraiah Begari; Kashamalla Chinna Ashalu; **Togati Naveen*** The Recent Advances in Iron-Catalyzed C(sp³)-H Functionalization. *Chemistry – An Asian Journal*, **2024** DOI: [10.1002/asia.202301056](https://doi.org/10.1002/asia.202301056) (Impact Factor: 4.5)
13. Monak Patel; Nitish Kumar; Hussain Bhukya; Bharatkumar Z. Dholakiya; **Togati Naveen*** Copper-catalyzed ortho-thiocyanation of aromatic amines. *Organic & Biomolecular Chemistry*, **2024** DOI: [10.1039/D4OB00137K](https://doi.org/10.1039/D4OB00137K) (Impact Factor: 3.98)
14. Arti Ramani; Desai Bhavyesh; Mani Kanta Koppolu; Kashamalla Chinna Ashalu; Eeshwaraiah Begari; **Togati Naveen*** An Efficient Synthesis of α -Sulfonamide Phosphonates through Metal-Free Three-Component Reaction. *Asian J. Org. Chem.*, **2024**, DOI: [10.1002/ajoc.202400100](https://doi.org/10.1002/ajoc.202400100) (Impact Factor: 3.3)

15. Monak Patel; Desai Bhavyesh; Nitish Kumar; Hussain Bhukya; Bharatkumar Z. Dholakiya; **Togati Naveen*** Microwave-Assisted Cross-Coupling of Nitroarenes with Aryl Boronic Acids. *Asian J. Org. Chem.*, **2024**, DOI: [10.1002/ajoc.202400064](https://doi.org/10.1002/ajoc.202400064) (Impact Factor: 3.3)
16. Sudha Soliya; Ketan Kuperkar; Kashamalla Chinna Ashalu; **Togati Naveen*** Catalyst-Free Three-Component Synthesis of α -Amino Phosphonates. *Asian J. Org. Chem.*, **2024**, DOI: [10.1002/ajoc.202300572](https://doi.org/10.1002/ajoc.202300572) (Impact Factor: 3.3)
17. Bhargav Desai; Akshay Bharodiya; Mani Kanta Koppolu; Hussain Bhukya; Bharatkumar Dholakiya; **Togati Naveen*** Microwave-Assisted Copper-Catalyzed Synthesis of 1-Aryl Benzotriazole 3-Oxides *ChemistrySelect* **2024**, DOI: [10.1002/slct.202402038](https://doi.org/10.1002/slct.202402038) (Impact Factor: 2.3)
18. Akshay Bharodiya; Bhargav Desai; Bhavyesh Desai; Areti Sivaih; Eeshwaraiiah Begari; **Togati Naveen*** Microwave-Assisted Catalyst-Free Conjugate Addition of Amines to Maleimide *ChemistrySelect* **2024**, DOI: [10.1002/slct.202401108](https://doi.org/10.1002/slct.202401108) (Impact Factor: 2.3)
19. A. Ramani, R. S. Patil, H. Bhukya and **Togati Naveen*** Copper-Catalyzed N, N-Alkyl Formylation of Sulfonamides *Asian J. Org. Chem.*, **2023**, DOI: <https://doi.org/10.1002/ajoc.202300336> (Impact Factor: 3.3)
20. Bhargav Desai, Piyushkumar Satani, Rachit S. Patil, Hussain Bhukya, **Togati Naveen*** Microwave-Assisted Metal-Free C(sp²)-H Thiocyanation of Aromatic Amines. *ChemistrySelect* **2023**, DOI: [10.1002/slct.202302849](https://doi.org/10.1002/slct.202302849) (Impact Factor: 2.3)
21. Bhargav Desai, Rachit S. Patil, Hussain Bhukya, Bharatkumar Z. Dholakiya, **Togati Naveen*** Copper-Catalyzed Synthesis of Diaryl Sulfones via Cross-Coupling of Boronic Acids and p-Toluenesulfonyl Hydrazide. *ChemistrySelect* **2023**, DOI: [10.1002/slct.202301681](https://doi.org/10.1002/slct.202301681) (Impact Factor: 2.3)
22. Monak Patel, Siddhant Sharma, Hussain Bhukya, B. Z. Dholakiya, and **Togati Naveen*** Iron-catalyzed N, N-formyl ethylation of amines. *Asian J. Org. Chem.*, **2023**, DOI: <https://doi.org/10.1002/ajoc.202300237> (Impact Factor: 3.3)
23. Akshay Bharodiya, Bhargav Desai, Rachit S. Patil, Hussain Bhukya, Areti Sivaiah, **Togati Naveen*** Microwave-Assisted Silver-Catalyzed Synthesis of Biaryl Compounds. *ChemistrySelect* **2023**, DOI: [10.1002/slct.202301848](https://doi.org/10.1002/slct.202301848) (Impact Factor: 2.3)
24. Bhargav Desai, Uppuluru Ajay, Ashutosh Dey, Neha Deshpande, Bharatkumar Z. Dholakiya, Akella Sivaramakrishna, **Togati Naveen*** and Kishor Padala* The recent advances in cobalt-catalyzed C(sp³)-H functionalization reactions. *Organic & Biomolecular Chemistry*, **2023** DOI: <https://doi.org/10.1039/D2OB01936A> (Impact Factor: 3.98)
25. Nidhi G. Savani, **Togati Naveen**, Bharatkumar Z. Dholakiya, A review on the synthesis of maleic anhydride-based polyurethanes from renewable feedstock for different industrial applications *Journal of Polymer Research* (2023) 30:175 DOI: <https://doi.org/10.1007/s10965-023-03543-7> (Impact Factor: 3.1)
26. Neha Deshpande, Piyushkumar Satani, Akshay Bharodiya and **Togati Naveen*** Recent advances in copper catalyzed functionalization of unactivated C(sp³)-H bonds. *Asian J. Org. Chem.*, **2022**, DOI: <https://doi.org/10.1002/ajoc.202200532> (Impact Factor: 3.3)
27. Arti Ramani, Bhargav Desai, B. Z. Dholakiya and **Togati Naveen*** Recent advances in visible-light mediated functionalization of olefins and alkynes using copper catalysts. *Chem. Commun.*, **2022**, 58, 7850-7873. (Impact Factor: 6.22)
28. Monak Patel, Uppuluru Ajay, Kishor Padala* and **Togati Naveen*** The recent advances in cobalt-catalyzed functionalization of unactivated olefins. *Asian J. Org. Chem.*, **2022**, DOI: <https://doi.org/10.1002/ajoc.202200201> (Impact Factor: 3.3)
29. Arti Ramani, Bhargav Desai, Monak Patel, and **Togati Naveen*** Recent advances in the functionalization of terminal and internal alkynes. *Asian J. Org. Chem.*, **2022**, DOI: <https://doi.org/10.1002/ajoc.202200047> (Impact Factor: 3.3)

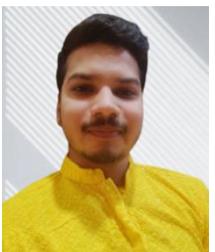
30. Aniruddha Paik, Sabarni Paul, Sabyasachi Bhowmik, Rahul Das, **Togati Naveen*** and Sujoy Rana* Recent Advances in First-Row Transition-Metal-Mediated C–H Halogenation of (Hetero)arenes and Alkanes. *Asian J. Org. Chem.*, **2022**, DOI: <https://doi.org/10.1002/ajoc.202200060> (**Impact Factor: 3.3**)
31. Monak Patel, Bhargav Desai, Aakash Sheth, Bharatkumar Z. Dholakiya and **Togati Naveen*** Recent Advances in Mono and Difunctionalization of Unactivated Olefins. *Asian J. Org. Chem.*, **2021**, DOI: <https://doi.org/10.1002/ajoc.202100666> (**Impact Factor: 3.3**)
32. Bhargav Desai, Monak Patel, Bharatkumar Z. Dholakiya, Sujoy Rana* and **Togati Naveen*** Recent Advances in Directed sp² C–H Functionalization Towards Synthesis of N–Heterocycles and O–Heterocycles. *Chem. Commun.*, **2021**, 57, 8699–8725 (**Impact Factor: 6.22**)
33. Monak Patel, Bhargav Desai, Arti Ramani, Bharatkumar Z. Dholakiya and **Togati Naveen*** Recent Developments in the PalladiumCatalyzed/Norbornene-Mediated Synthesis of Carbo- and Heterocycles. *ChemistrySelect* **2021**, 6, 8085–8106. (**Impact Factor: 2.1**)
34. **Togati Naveen*** Transition Metal-Catalyzed Synthesis of N, O–Heterocycles via C–H Functionalization *Tetrahedron* **2021**, 84, 132025 (**Impact Factor: 2.6**)
35. Ramaiah Konakanchi, Geetha Swarupa Pamidimalla, Jyothi Prashanth, **Togati Naveen**, Laxma Reddy Kotha* Structural elucidation, Theoretical investigation, Biological screening and Molecular docking studies of metal(II) complexes of NN donor ligand derived from 4-(2-aminopyridin-3-methylene)aminobenzoic acid *Biometals* **2021** (<https://doi.org/10.1007/s10534-021-00293-1>)
36. **Togati Naveen**, Arghya Deb and Debabrata Maiti* Copper/P(*t*-Bu)₃-Mediated Regiospecific Synthesis of Fused Furans and Naphthofurans. *Angew. Chem. Int. Ed.*, **2017**, 56, 1111. (**ImpactFactor: 15.3**)
37. Upendra Sharma, **Togati Naveen**, Arun Maji, Srimanta Manna and D. Maiti* Palladium- Catalyzed Synthesis of Benzofurans and Coumarins from Phenols and Olefins. *Angew. Chem. Int.Ed.*, **2013**, 52, 12669. (**Impact Factor: 15.3**)
38. **Togati Naveen**, Rajesh Kancherla and Debabrata Maiti* Radical Based Strategy towards the Synthesis of 2,3-Dihydrofurans from Aryl ketones and Aromatic olefins. *Org. Lett.*, **2014**, 16, 5446. (**Impact Factor: 6.49**)
39. **Togati Naveen**, Soham Maity, Upendra Sharma and Debabrata Maiti* A Predictably Selective Nitration of Olefin with Fe(NO₃)₃ and TEMPO. *J. Org. Chem.*, **2013**, 78, 5949. (**Impact Factor:4.8**)
40. Upendra Sharma, Rajesh Kancherla, **Togati Naveen**, Soumitra Agasti and Debabrata Maiti* Palladium-Catalyzed Annulation of Diarylamines with Olefins through C–H Activation: Direct Access to N-Arylindoles. *Angew. Chem. Int. Ed.* **2014**, 53, 11895. (**Impact Factor: 15.3**)
41. Atanu Modak, **Togati Naveen** and Debabrata Maiti* An Efficient Dehydroxymethylation Reaction by a Palladium Catalyst. *Chem. Commun.*, **2013**, 49, 252. (**Impact Factor: 6.22**)
42. Soham Maity, Srimanta Manna, Sujoy Rana, **Togati Naveen**, Arjit Mallick and DebabrataMaiti* Efficient and Stereoselective Nitration of Mono- and Disubstituted Olefins with AgNO₂ and TEMPO. *J. Am. Chem. Soc.*, **2013**, 135, 3355. (**Impact Factor: 15.4**)
43. Soham Maity, **Togati Naveen**, Upendra Sharma and Debabrata Maiti* Stereoselective Nitration of Olefins with *t*-BuONO and TEMPO: Direct Access to Nitroolefins under Metal-free Conditions. *Org. Lett.*, **2013**, 15, 3384. (**Impact Factor: 6.49**)
44. Rajesh Kancherla, **Togati Naveen** and Debabrata Maiti* Palladium-Catalyzed (3+3) Annulation Between Diarylamines and α , β -Unsaturated acids Through C–H Activation: Direct Access to 4-Substituted-2-quinolinones. *Chem. Eur. J.* **2015**, 21, 8360. (**Impact Factor: 5.2**)
45. Rajesh Kancherla, **Togati Naveen** and Debabrata Maiti* Divergent Reactivity in Palladium- Catalyzed Annulation with Diarylamines and α , β -Unsaturated acids: Direct Access to Substituted 2-Quinolinones and Indoles. *Chem. Eur. J.* **2015**, 21, 8723. (**Impact Factor: 5.2**)

46. Soham Maity, **Togati Naveen**, Upendra Sharma and Debabrata Maiti* Efficient and Stereoselective Nitration of Mono- and Disubstituted Olefins with AgNO₂ and TEMPO. *Synlett.*, 2014, 25, 603. **(Impact Factor: 2.369)**
47. Soumitra Agasti, Upendra Sharma, **Togati Naveen** and Debabrata Maiti* Orthogonal Selectivity with Cinnamic acids in 3-Substituted Benzofuran Synthesis through C–H Olefination of Phenols. *Chem. Commun.*, 2015, 51, 5375. **(Impact Factor: 6.22)**
48. Tuhin Patra, Rahul Watile, Soumitra Agasti, **Togati Naveen** and Debabrata Maiti* Sequential *meta*-C–H Olefination of Synthetically Versatile Benzyl Silanes: Effective Synthesis of *meta*-Olefinated Toluene, Benzaldehyde and Benzyl Alcohols. *Chem. Commun.*, 2015, 52, 2027. **(Impact Factor: 6.22).**

Patents Granted

1. **Title:** Palladium-Catalyzed Synthesis of Benzofurans and Coumarins Using Phenol or Substituted Phenols
Inventors: Upendra Sharma, **Togati Naveen**, Debabrata Maiti
Patent No. 299110 [20 years]
Award Date: 24/07/2018
Country: India

Ph. D. Ongoing and Completed Students

				
Maulik Pethani [ERS]	Yash Dhaduk [FIR]	Shreeya Dave [ERS]	Akshay Bharodiya [FIR] Synopsis Submitted	Dr. Bhargav Desai R & D Scientist, Zydus Life Sciences
				
Shivam Vispute [FIR]	Arpan Patel [FIR]	Bhavyesh Desai [ERS]	Arti Ramani [FIR] Thesis Submitted	Dr. Monak Patel Assistant Professor, UPL University