Profile

Name of the Faculty	Dr. Mallu chennareddy
Designation	Sr.Assistant professor
Department	Chemistry
Area of Interest	Organic chemistry
Subjects Taught	Engineering chemistry
JNTUH Registration Id	7502-240905-124711
College Staff Code	SC1994
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Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	Post DOC	Organic chemistry	IISER PUNE	2019
2	Post DOC	Organic chemistry	University of Cambridge UK	2018
3	PhD	Organic chemistry	IISER PUNE	2017

Publications Details :

S. No.	Publication details
1.	17) **Reddy, M. C.;* (Corresponding author)** Dey, A.; Jeganmohan, M.;* Padala, K.;* "The isolation-biological activities (2014-2022), bio, semi, total synthesis (1978-2022) and SAR studies of a potential naturally engineered scaffold aristolactam", *New J. Chem.*, **2023**, ***47***, 16266-16307. 16) Li, J.;* Choudhry, N.*; Lv, G.; Nimishetti, N.; **Reddy, M. C.;** Liu, H.; Allen, T. D.; Zhang, J; Yang, D.*; "In-vitro metabolism of LXY18, an orally available, potent blocker of AURKB relocation in mitosis", *J. Pharm. Biomed. Anal.* **2023**, *232*, 115415. 15) Lv, G.;* Shi, Q.; Zhang, T.; Li, J.; Long, Y.; Zhang, W.; Choudhry, N.; Yang, K.; Li, H.; Kalashova, J.; Yang, C.; Zhou, X.; **Reddy, M. C.;** Anantoju, K. K.; Zhang, S.; Zhang, J.; Allen, T. D.; Liu, H.; Nimishetti, N.;* Yang, D.*; "Integrating a phenotypic screening with a structural simplification strategy to identify 4-phenoxy-quinoline derivatives to potently disrupt the mitotic localization of Aurora kinase B", *Bioorg. Med. Chem.* **2023**, *80*, 117173. 14) Lv, G.;* Shi, Q.; Zhang, T.; Li, J.; Kalashova, J.; Long, Y.; Sun, Y.; Li, C.; Choudhry, N.; Li, H.; Yang, C.; Zhou, X.; **Reddy, M. C.;** Anantoju, K. K.; Jupelli, R.; Zhang, S.; Zhang, J.; Allen, T. D.; Liu, H.; Nimishetti, N.;* Yang, D.;* "2-Phenoxy-3, 4′-bipyridine Derivatives Inhibit AURKB-Dependent Mitotic Processes by Disrupting Its Localization, *Eur. J. Med. Chem.* **2023,** *245*, 114904. 13) Huang, J.; Shi, Q.; Choudhry, N.; Li, H.M.; Yang, C.L.; Kalashova, J.; Yan, Z.Q.; Li, J.H.; **Reddy, M. C.;** Gopala, S.G.; Zhang, S.; Zhang, J.; Nimishetti, N.;* Yang, D.;*.Discovery and Optimization of Seven-Membered Lactam-Based Com-pounds to Phenocopy the Inhibition of the Aurora Kinase B. *ACS Med. Chem. Lett.* **2022**, *13*, 1091–1098. 12) Kour, P.**; Reddy, M. C.* (Corresponding author);** Pal, S.; Sidhik, S.; Das, T.; Pandey, P; Mukherjee, S. P.*; Chakraborty, S.*; Mohite, A. D.*; Ogale, S. B.*; "An Organic–Inorganic Perovskitoid with Zwitterion Cysteamine Linker and its Crystal–Crystal Transformation to Ruddlesden-Popper Phase", *Angew. Chem. Int. Ed.* **2021**, *60*, 18750 – 18760. 11) Bibhisan, R**.*; Reddy, M. C.;** Josh, G. P.**;** Partha, H.*; Niemeyer, F. C; Voskuhl, J.*; Hazra, P.*; "All in One: Stimuli-Responsive, Efficient Mitotracking, and Single Source White Light Emission", *J. Phys. Chem. Lett*. **2021**, *12*, 1162–1168.

10) Parmar, S.**;** Pal. S.**;** Biswas, A.; Gosavi, S. W.; Chakraborty, S*; **Reddy, M. C.* (Corresponding author);** Ogale, S. B.*; "Designing a new family of oxonium-cation based structurally diverse organic-inorganic hybrid iodoantimonate crystals", *Chem. Commun*. **2019,** *55*, 7562–7565.

9) Bibhisan, R.**; Reddy, M. C.;** Panja, S. N.; Hazra. P.*; "Strategy to Mechanical Activation of Centrosymmetrically Packed Organic Luminogens**"** *J. Phys. Chem. C.* **2019,** *6***,** 3848-3854.

8) Kour, P.; **Reddy, M. C.;** Naphade, R.; Ogale, S. B.*; "Quaternary alkylammonium salt incorporated 2D/3D mixed halide perovskite with highly enhanced photoluminescence and arrested iodide/bromide phase segregation", *APL Materials* **2018**, *6*, doi.org/10.1063/1.5042449.

7) Bibhisan, R.**; Reddy, M. C.;** Hazra, P.*; "Developing the structure-property relationship to design solid state multi-stimuli responsive materials and their potential applications in different fields**"** *Chem. Sci*. **2018,** ***9***, 3592-3606.

6) **Reddy, M. C.;** Jeganmohan, M.; "Total Synthesis of Aristolactam Alkaloids via Synergistic C–H Bond Activation and Dehydro-Diels–Alder reactions". *Chem. Sci*. **2017,** *8*, 4130–4135.

5) **Reddy, M. C.;** Jeganmohan, M.; "Ruthenium-catalyzed *ortho*- alkenylation of aromatic nitriles with activated alkenes via C–H bond activation". *Chem. Commun*. **2015,** *51*, 10738–10741.

4) **Reddy, M. C.;** Jeganmohan, M.; "Ruthenium-Catalyzed Cyclization of Aromatic Nitriles with Alkenes: Stereo selective Synthesis of (*Z*)-3-Methyleneisoindolin-1-ones". *Org. Lett*. **2014,** *16*, 4866–4869. **This paper was highlighted by *Synfacts*** (Synfacts 10 (11), 1172-1172)

3) **Reddy, M. C.;** Manikandan, R.; Jeganmohan, M.; "Ruthenium-Catalyzed Aerobic Oxidative Cyclization of Aromatic and Hetero aromatic Nitriles with Alkynes: A New Route to Isoquinolones". *Chem. Commun*. **2013,** *49*, 6060–6062

2) **Reddy, M. C.;** Jeganmohan, M.; "Ruthenium-Catalyzed Highly Regio- and Stereoselective Hydroarylation of Aryl Carbamates with Alkynes via C–H Bond Activation". *Chem. Commun*. **2013,** *49*, 481–483.

	1) **Reddy, M. C.;** Jeganmohan, M.; "Ruthenium-Catalyzed Selective Aerobic Oxidative *ortho*-Alkenylation of Substituted Phenols with Alkenes through C–H Bond Activation" *Eur. J. Org. Chem.* **2013,** 1150-1157.

Experience:

Teaching	1 Year
Industry	3Years
Research	11 Years
Total Experience	15 years