

Faculty Profile

Name : Dr. Mallikarjunaswamy C
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About me: I am Dr. Mallikarjunaswamy C, currently serving as a faculty member at the National Institute of Engineering (NIE), Mysuru. My academic journey began at the University of Mysore, where I earned my B.Sc., M.Sc., and Ph.D. in Chemistry. Before joining NIE, I dedicated 13 years to the Postgraduate Department of Chemistry at JSS College of Arts, Commerce and Science, Mysuru, where I developed a robust research and teaching foundation. My research expertise lies in nanomaterials, green synthesis, photocatalysis, and electrochemical sensing for environmental and biomedical applications. To date, I have published over 60 research articles in reputed international journals and have successfully completed projects funded by the UGC and VGST.

As a recognized Ph.D. guide at the University of Mysore, I am deeply committed to mentorship. I have successfully guided two research scholars to the award of their Ph.D. degrees, and I am currently supervising two additional scholars in their doctoral research. My work continues to focus on synthesizing cost-effective nanomaterials for advanced sensing and pollutant removal.

Qualification:

Programme	Specialization	Institution/University
Ph.D.,	Chemistry	University of Mysore
M.Sc.,	General Chemistry	University of Mysore
B.Sc.,	Chemistry, Zoology, Biotechnology [CZBt]	University of Mysore
Diploma and Certificate Course	Industrial Microbiology	University of Mysore
On Job Training Program	Molecular Biology & Immunotechnology	Neo-biotics India (Pvt) Ltd

Courses Taught:

- 1. Applied Chemistry for ECE**
- 2. Applied Chemistry for EEE**
- 3. Biology for Engineers**

Publications:

Journal Publication:

- [1] Jeevitha, S, Jayanth, CR, Sanjana, MS, **Mallikarjunaswamy, C**, Sangamesh, MA, Mahesh, S, Anusha Gowda, AR, Kavyashree, MB, Nagendra Prasad, HS, "Development of Gd₂Sr₂ZnO₅ nanocatalyst for efficient photodegradation of Methylene Blue and Malachite Green in Water: computational insights," International Journal of Environmental Analytical Chemistry, vol. 106, pp. 223--246, 2026.
- [2] KC, Sunil Kumar, Chandra, V, Lakshmi Ranganatha, KB, Vilas Gowda, Ramu, Ramith, HS, Nagendra Prasad, G, Nagaraju, C, **Mallikarjunaswamy**, "Dual-Functional CeVO₄ Nanoparticles: Green-Synthesized Photocatalyst for Wastewater Treatment and Potent Antifungal Agent Against Candida albicans," ChemistrySelect, vol. 11, pp. e05185, 2026.
- [3] Krishna Kaushik, P, Naveen Kumar, JR, Rohit, M, Basavannavar, DR, Praveen, BM, **Mallikarjunaswamy, C**, Harini, R, Nagaraju, G, Devendra, BK, "Electrochemical Detection of L-Ascorbic Acid and Photocatalytic Application of Cu₅V₂O₁₀ Nanomaterials," Indian Journal of Science and Technology, vol. 19, pp. 95--106, 2026.
- [4] Pooja, KR, Nagaraju, G, Prajwal Ujjani, CP, Koti, Vachanashree J, Naveen, KB, Harini, R, Manjanna, J, **Mallikarjunaswamy, C**, "Efficient Atrazine Degradation Via Green Synthesized Zirconia NPs: A Sustainable Approach to Water Purification," Journal of Cluster Science, vol. 36, pp. 133, 2025.
- [5] Kumar, KC Sunil, Ranganatha, V Lakshmi, Soundarya, TL, Shivaganga, GS, Nagaraju, G, Chandra, S, **Mallikarjunaswamy, C**, "Eco-friendly synthesis of BiVO₄ nanoparticles from Ipomoea campanulata leaf extracts: advances in photocatalysis and electrochemical sensing towards the detection of paracetamol," Ionics, vol. 31, pp. 8405--8418, 2025.
- [6] Kumar, E Vinay, Swamy, C Mallikarjuna, Rao, HN Anil, Shashank, M, Deepa, K, Suma, GR, Rani, M Navya, Nagaraju, G, "Facile green synthesis of CuWO₄ nanoparticles and its application for the photocatalytic degradation of rose Bengal dye under visible light irradiation," Inorganic Chemistry Communications, vol. 172, pp. 113706, 2025.
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- [10] Surendra, Boppanahalli Siddegowda, Deepa, Harapanahalli Achutha, Chethana, Maddur Vishakantaiah, **Mallikarjunaswamy**, Chandrashekaraiiah, Vikas, Goppenahalli Nataraj, Manuja, Mata Lingaraju, Policepatil, Neelakantgouda, Mithun Gowda, Neralekere Rangaswamaiah, "Fabrication of Cost-Effective La-MoO₃ Nanoparticle for Probing of Photovoltaic and Photocatalytic Applications," Applied Research, vol. 4, pp. e70053, 2025.

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SPONSORED PROJECTS AS PRINCIPAL INVESTIGATOR

Sl.No.	Title of the project	Grant Number	Funding agency
1	Design and Synthesis of Substituted Pyrimidine Analogues: A Novel Approach to Enhance the Bio-efficacy	1492-MRP/14-15/KAMY013/UGC-SWRO (4,50,000.00)	University Grants Commission (UGC)
2	Synthesis and characterization of Manganese based nanomaterials: Application for Photocatalytic degradation of dye-based industrial effluents and assessment of its electrochemical behavior	VGST/RGS-F/GRD No.1001/56/2020-21 (3,00,000.00)	Vision Group of Science and Technology (VGST)
3	45 th Student Project Program	KSCST-45S_MSc_133	Karnataka State Council for Science and Technology (KSCST)

Details of research scholars registered for Ph.D. programme under University of Mysore, Mysuru.

Sl. No.	Name of the Scholars	Registration No.	Status
1.	Dr. Pramila S.	DOR.9.2/Ph.D/PS/WOF/PR673/2020-21, 03-04-2021	Graduated
2.	Dr. Thejaswini M.	DOR.9.2/Ph.D/TM/WOF/PR671/2020-21, 03-04-2021	Graduated
3.	Mr. Manohar S. S.	DOR.9.3/Ph.D/PR102/MSS/2024-25, 06-12-2024	Enrolled
4.	Ms. Meghana H S	DOR.9.3/Ph.D/PR86/MHS/2025-26, 08-04-2025	Enrolled
5.	Ms. Bindhushree		Enrolled