



Dr. Kosiha A

Assistant Professor - Research
Chemistry

Contact

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About Me

Knowledge of interests My expertise lies in Coordination Chemistry, Materials Chemistry, and Computational Chemistry, with a focus on Metal-Organic Frameworks. With a strong academic background, including a PhD from Gandhigram University and Senior Research Fellowship from UGC-BSR, I've built a foundation for innovative research. My publication record, teaching experience, and awards (Best Presentation and Best Faculty) reflect my commitment to excellence. I'm passionate about organizing conferences and workshops, and I'm excited to continue making a significant impact in my field through research and mentorship.

Research Interests

- **Material Chemistry,**
- **Synthetic Chemistry,**
- **MOFs (from waste)**
- **Theoretical Calculations (Gaussian),**
- **Wastewater Treatment, and**
- **Sensing (Anion, Cation, Electrochemical)**

Education

- **Research Associate of DBT-TANUVAS Project**
Anna University, Chennai.
- **Doctor of Philosophy in Chemistry**
Gandhigram UNIVERSITY (DU), Tamilnadu
- **Master of degree in Chemistry**
Gandhigram UNIVERSITY (DU), Tamilnadu

Research Experience

- **Research Faculty - Assistant Professor**
Vels Institute of Science, Technology and Advanced Studies (DU), Chennai.
- **Assistant Professor**
Department of Chemistry, Vels Institute of Science, Technology and Advanced Studies (DU), Chennai.
- **Research Associate of DBT-TANUVAS Project**
Department of Applied Science and Technology, Anna University, Chennai.
- **Junior and Senior Research Fellow (SRF) of UGC-BSR**
Department of Chemistry, Gandhigram Rural Institute (DU)

Notable Research Publications

- *Materials Science & Engineering: C* — Impact Factor 8.5, Q1 in Biomaterials (Elsevier) (2019).
- *Journal of Photochemistry and Photobiology B: Biology*— Impact Factor ~5.5, Q1 in Photobiology (Elsevier) (2018).
- *Scientific Reports* — Impact Factor 3.8, multidisciplinary Nature journal (Nature Portfolio) (2023).
- *Journal of Molecular Structure* — Impact Factor ≈4.0, Q2 chemistry (Elsevier) (2025).
- *Inorganica Chimica Acta* — Impact Factor 2.7, respected inorganic-chemistry outlet (Elsevier) (2025)..

Funded Projects

- **Funding Agency - TN- EDII - Innovation Voucher programme - 2023**
Title - Synthesis of Metal-Organic Framework (MOF) from waste PET bottles with g-C₃N₄ and investigation of its biomedical application
Amount Sanctioned- 2,00,000
- **Seed Money for Research Project (Completed) - 2019**
Zn metal based anticancer drug
Amount Sanctioned- 1,00,000
- **TNSCST-SPS, Tamilnadu (Completed) - 2022**
Synthesis of Cu based Metal organic framework (MOF) /g-C₃N₄ composite and investigation of its Biological activity



Patent

Fabrication of Amperometric sensor with Metal Organic Framework (MOF) derived from Waste PET Bottles - IPR - Design Patent - 2024