

S. Manasa M.Sc. (Ph.D)

Office Room no: 4308

Department of Humanities and Basic Science

Gokaraju Rangaraju Institute of Engineering and Technology

Bachupally, Hyderabad-500090

TELANGANA

Email : manasa1767@grietcollege.com

**ABOUT MYSELF**

S. Manasa is an Assistant professor at the Department of Chemistry, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India. She has more than 10 years of teaching and 5 years of research experience. Her research interest lies in the area of material science, nanotechnology, photocatalysis, etc. She has 8 research papers in SCI indexed journals. She has attended various conferences, seminars and presented papers at national and international levels.

ACADEMIC EDUCATION

- **B.Sc (Biotechnology, Bioinformatics, Chemistry)** from Osmania University (2007 - 2010)
- **M.Sc (Chemistry)** from Osmania University (2010 - 2012)
- **Ph.D (Chemistry)** with specialization in Material science from Osmania University (2017 - 2023)

PROFESSIONAL EXPERIENCE

- **June 2023 – till date:** Assistant Professor, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana
- **May 2015 – April 2023:** Assistant Professor, Vignana Bharathi Institute of Technology, Hyderabad, Telangana
- **June 2012 – April 2015:** Assistant Professor, Hyderabad Institute of Technology and Management. Hyderabad, Telangana

COURSES TAUGHT

- Engineering Chemistry
- Environmental Science
- Engineering Chemistry Laboratory

Project sanctions and Grants:

- **Title :** Carbon nanosphere supported visible light driven nanomaterials : synthesis, characterization and photocatalytic dye degradation studies.
- **Funder:** JNTUH TEQIP-III COLLABORATIVE RESEARCH SCHEME
- **Grant ID:** JNTUH TEQIP-III CRS/ CHEMISTRY 05
- **Duration:** 2019-21
- **Sanctioned Amount:** 2.5 Lakhs

PUBLICATIONS

S.No

First author Publications

- 1 Carbon nanospheres supported visible-light-driven ZnSb_2O_6 : synthesis, characterization and photocatalytic degradation studies (2019)
Manasa Sunku, R Gundeboina, V Perala, V Kammara, M Vithal
SN Applied Sciences 1, 1-12
- 2 Preparation, characterization and photocatalytic activity studies of C-and N-doped CoSb_2O_6 (2019)
Manasa Sunku, R Gundeboina, CHS Chakra, VK Reddy, M Vithal
Inorganic Chemistry Communications 134, 109064 [IF-3.4]
- 3 A novel approach for generation of oxygen vacancies in trirutile MnSb_2O_6 and their impact on photocatalytic degradation of MO dye (2022)
Manasa Sunku, P Venkataswamy, GH Bindu, P Srilekha, M Srinivas, M Vithal
European Journal of Inorganic Chemistry [IF-2.5]

Co-author Publications

- 4 Fabrication of Novel $\text{Ag/AgBr/Cs}_2\text{Nb}_4\text{O}_{11}$ Ternary Composite for Visible-Light Driven Photocatalysis (2019)
P Venkataswamy, **Manasa Sunku**, R Gundeboina, R Velchuri, M Vithal
Catalysis Letters 149, 2332-2346 [IF-3.18]
- 5 Potassium zirconium oxalate a new precursor for the preparation of perovskite, pyrochlore and Nasicon type materials (2019)
M Malathi, K Vaishnavi, G Ravi, **Manasa Sunku**, M Vithal
Journal of Solid State Chemistry 276, 133-138 [IF-3.49]
- 6 Preparation, characterization and visible light photocatalytic studies of $\text{Ag/AgBr/Li}_2\text{ZrO}_3$ composite (2022)
V Kammara, P Venkataswamy, G Ravi, K Ramaswamy, **Manasa Sunku**, M Vithal
Inorganic Chemistry Communications 141, 109504 [IF-3.4]
- 7 Effect of Ag^+ , Cu^{2+} and Sn^{2+} Doping on Structural, Optical and Photocatalytic Properties of $\text{KGe}_{0.5}\text{Te}_{1.5}\text{O}_6$ with Defect Pyrochlore Structure (2022)
GH Bindu, **Manasa Sunku**, K Ramaswamy, P Srilekha, P Veerasomaiah, ...
ChemistrySelect 7 (36), e202202780 [IF-2.3]
- 8 Preparation, Characterization and Photocatalytic Activity studies of Ag^+ , Cu^{2+} and Sn^{2+} -doped $\text{Li}_2\text{GeTeO}_6$ under Visible Light Irradiation (2022)
V Muga, V Kammara, V Perala, **Manasa Sunku**, R Kadari, HB Gaddameedi, ...
Advanced Materials Letters 13 (3)

TRAINING/WORKSHOPS/SEMINARS:

- **Best Poster Presentation** award in International conference on “Current Trends and Futuristic Challenges in Chemical Sciences” held during 29th –30th July 2022 at Department of Chemistry, University College of Science, OU.
- Participated in the “International Conference on Purification and Recycling of electronic materials” held during 8th – 10th March 2020 organized by CMET ,Hyderabad
- Presented an Oral presentation in “ International conference on Material science for societal advancement” held during 20th – 22nd January 2020 at Osmania University, Hyderabad
- **Best poster presentation** award in International Conference on “Emerging Trends in Spectroscopic Techniques and their applications” Department of Chemistry, Osmania University college for Women. 3rd-4th December,2018
- Undergone a **Faculty Professional Development programme** for 6 months which included training on **soft skills, language & communication skills, presentation skills, innovative teaching pedagogy** from **Sudhaksha Training Centre**, Ameerpet, hyd.
- Attended a One day National Seminar on “Application of Sciences to Engineering” at JBIET, Hyderabad