

FACULTY PROFILE

Name : **Dr. D. GEETHALAKSHMI**
Qualification : M.Sc., Ph.D.
Designation : Assistant Professor
Department of Chemistry
Years of Experience : **UG** : 1 Year 04 Months **PG** : 06 Months
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Areas of Specialization : Physical Chemistry and Polymer Chemistry

Publications

1. **D.Geethalakshmi**, E.Murugan, "Phase Transfer Catalysis: Effect of Cationic Surfactants on the Free Radical Polymerization of Methylmethacrylate". Indian Journal of Chemical Technology., Vol,25, pp 150-157, **ISSN. No. 0974-7443**, 2018.
2. **D.Geethalakshmi**, E. Murugan, J.Nimita Jebaranjitham, K.Janaki Raman, Abhishek Mandal, M.Dharmendra Kumar, A.Saravanakumar "Insoluble Dendrimer Grafted Poly (vinylimidazole) Microbeads Stabilized with Mono/bimetallic nanoparticle catalysts for Effective Degradation of Malachite Green". New Journal of Chem., Vol.41, pp 10860-10871, **ISSN. No. 1144-0546**, 2017
3. **D.Geethalakshmi**, E.Murugan, "Phase Transfer Catalysis: Effect of Cationic Surfactants on the Free Radical Polymerization of Methylmethacrylate". Indian Journal of Chemical Technology., Vol,25, pp 150-157, **ISSN. No. 0974-7443**, 2018

Presentations

1. Presented a Paper on "Synthesis of Environmentally safer single-site and tri-site polymer-supported phase transfer catalyst and its application to addition reaction- A kinetic study", National Conference on Pollution Abatement through Technology Development, Department of Chemistry, Anna University, Chennai, March 18-19, 2005

2. Presented a Paper on “Synthesis of New Soluble di-site phase transfer catalyst for free radical polymerization of Acrylonitrile” International Conference on Recent Advancements in Chemistry, Auxilium College, Vellore, January 5 to 6, 2006.
3. Presented a Paper on “Free Radical Polymerization of Vinyl Acetate using benzyltriphenylphosphonium Chloride as a Soluble Phase Transfer Catalyst” CRSI 8th National Symposium in Chemistry, IIT- Bombay, Mumbai, February 3 to 5, 2006.
4. Presented a Paper on “Synthesis of N-Isopropylacrylamide coated gold nanoparticle hybrid nanomaterial via surface confined Atom transfer radical polymerization” Recent Advances in polymeric materials, IIT- Madras, Chennai, January 17 to 19, 2018.
5. Presented a Paper on “Atom Transfer Radical Polymerization of NIPA initiated by Bromo-Functionalized Silver Nanoparticles coupled with (Cu(I)Br/PMDETA)”, 23rd National Symposium on Catalysis (CATSYMP-23), Applied Catalysis in Emerging Technologies for Chemicals", Catalysis Society of India- Bengaluru, January 17 to 19, 2018.
6. Presented a Paper on “The Effects of Ligands, Bipyridine (Bpy), Pentamethyldiethylenetriamine (PMDETA) and Hexamethyltriethylenetetramine (HMTETA) on the kinetics of bulk homopolymerization of Methyl Methacrylate by Atom Transfer Radical Polymerization (ATRP) route using ethyl-2- bromoisobutyrate EBIB/Cu(I)Br”, International conference on advances in chemistry with specific reference to catalysis, sensors, drug delivery and energy materials (ICACSEM 2020), University of Madras, January 9 to 10, 2020.
7. Presented a Paper on “The Effects of Ligands, Bipyridine (Bpy), Presented a Paper on “The Effects of Ligands, Bipyridine (Bpy), Pentamethyldiethylenetriamine (PMDETA) and Hexamethyltriethylenetetramine (HMTETA) on the kinetics of bulk homopolymerization of Glycidyl Methacrylate by Atom Transfer Radical Polymerization (ATRP) route using ethyl-2- bromoisobutyrate EBIB/Cu(I)Br”, International conference on advances in chemistry with specific reference to catalysis, sensors, drug delivery and energy materials (ICACSEM 2022), University of Madras, March 28 to 29, 2022 (**Best Poster Presentation-II Prize**)
8. Presented a Paper on “Aminopropyltriethoxysilane Functionalized ZrO₂ nanoparticles modified glassy carbon electrode and its bio sensing application of cytosine”, 3rd International conference on recent trends in analytical chemistry (ICORTAC- 2023), University of Madras, June 26 to 28, 2023.

Conferences/Workshops/Seminar/Webinars Participated

1. Participated in the “**One day seminar on Recent trends in catalysis**” held at Department of Chemistry, Anna University, Chennai, on 28th March, 2017.
2. Participated in the “**Recent trends in nanobiosensors**” held at Department of Inorganic Chemistry, University of Madras, Chennai, on 22nd and 23rd February, 2018.
3. Participated in the “**Recent trends in micro fluidics, labs-on-a chip and Nano Biosensors**” held at Department of Inorganic Chemistry, University of Madras, Chennai, on 14th March, 2018.
4. Participated in the “**Sustainable Development and Clean Technologies**” held at Centre for Technology development and Transfer, Anna University, Chennai, on 3rd July, 2018.
5. Participated in the Webinar “**Organic and Polymeric materials**” organized by Division of Chemistry, Vellore Institute of technology, Chennai, on 23rd to 24th, July, 2020.
6. Participated in the Webinar Series on “**Modern Trends in Organic Synthesis**” organized by Department of Chemistry, Bharathidasan University, Tiruchirapalli, on 27th to 31st, July, 2020.
7. Participated in the International Webinar on “**Enzymes- A long journey from the discovery to the Market**” organized by the Post graduate and Research Department of Chemistry, Guru Nanak College with the support of Star college scheme, Government of India, Chennai, on 29th, July, 2020.
8. Participated in the Research Development Programme on “**Online Platforms for Peer Interaction in Research**” organized by Guru Nank centre for Research, Guru Nank College, Chennai, on 10th, August, 2020.
9. Participated in the webinar on “**Biomaterials from Natural resources for regenerative medicine**” organized by the Guru Nanak centre for research, Guru Nanak College, Chennai, on 11th, August, 2020.
10. Participated in the webinar on “**Molecular Mechanisms and Methods available in Covid 19 detection- An update**” organized by the Guru Nanak Centre for research, Guru Nanak College, Chennai, on 12th, August, 2020.
11. Participated in the International Webinar on “**Text Mining to explore pubmed database**” organized by Department of Science and Humanities, Nehru Institute of engineering and technologies, Coimbatore, on 26th September, 2020.

12. Participated in the Webinar on **“Preparation of Nanomaterials for energy and environmental Applications”** organized by Department of Science and Humanities, Nehru Institute of engineering and technologies, coimbatore, on 6th October, 2020.
13. Participated in the Webinar on **“Nanomaterials in antimicrobial photodynamic therapy and biomedical Applications”** organized by Department of Chemistry, Dr.MGR Educational and Research Institute, Chennai, on 24th, March, 2021.
14. Participated in the webinar on **“The role of bio-polymers for Advanced engineering Applications”** organized by the Post graduate and Research Department of Chemistry and IQAC of Guru Nanak College, Chennai, on 28th, July, 2021
15. Participated in the webinar on **“Introduction to Thermodynamics”** organized by the Post graduate and Research Department of Chemistry, Guru Nanak College, Chennai, on 5th and 6th, August, 2021
16. Participated in the webinar on **“Fundamentals on Analytical Instrumentation”** organized by the Department of Chemistry, Bhaktavatchalam Memorial College For Women, Chennai, on 13th April, 2022.