

Name : Dr. N A Anusuya

Designation : Assistant Professor

Department : Chemistry

Qualification : Ph.D., M.Phil., M.Sc., B.Sc.

Experience : Teaching -16 Years

Research: 9 Years

Area of Specialization(s) : Physico-organic Chemistry (Electrochemistry)

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AcademicQualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Chemistry	PSGR Krishnammal College for Women, (Bharathiar University)	2018
M.Phil.	Chemistry	PSGR Krishnammal College for Women, (Bharathiar University)	2006
M. Sc.	Chemistry	PSGR Krishnammal College for Women, (Bharathiar University)	2004
B.Sc.	Chemistry	Avinashilingam Deemed University	2002

AdditionalQualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/AgencyName	Year
Certification	Coursera	University of Minnesota	2022
Certification	Coursera	Technical University of Denmark	2022
Certification	NPTEL	IISER – Indian Institute of Science Education and Research, Pune	2021

Research Publications (Indexed) 10 Publications

1. N. **Anusuya**, J Saranya, V S Angulakshmi, A Zarrouk, Experimental and Computational studies on the prevention of mild steel in sulphuric acid medium using bis-pyrimidine derivatives as corrosion inhibitors, **Journal of Molecular Structure**, 1346 (2025)
2. J. Saranya, K. Vagdevi, B. Jyothirmai, N. **Anusuya**, F. Benhiba, I. Warad A. Zarrouk, Application of quercetin as a green inhibitor to prevent mild steel corrosion in the petroleum industry: Experimental and modelling techniques, **Chemical Data Collections**, 50 (2024)

3. J. Saranya, **N. Anusuya**, F. Benhiba, I. Warad, and A. Zarrouk, A Cyanopyran Derivative for Preventing Corrosion of Pipeline Material Used in The Oil and Gas Industry, Analytical and Bio-analytical Electrochemistry, 14 (2022).
4. **N. Anusuya**, J. Saranya, F. Benhiba, I. Warad, A. Zarrouk and S. Chitra, Isoxazoline Derivatives as Inhibitors for Mild Steel Corrosion in 1M H₂SO₄: Computational and Experimental Investigations, Journal of Materials Engineering and Performance, (2022)
5. J. Saranya, F. Benhiba, **N. Anusuya**, A. Zarrouk, S. Chitra, Thiazolo thiadiazole derivatives as anti-corrosion additives for acid corrosion, Chemical Data Collections, 26 (2020)
6. J. Saranya, F. Benhiba, **N. Anusuya**, Ram Subbiah, A. Zarrouk, S. Chitra, Experimental and computational approaches on the pyran derivatives for acid corrosion, Colloids and Surfaces A, 603 (2020).
7. **N. Anusuya**, J. Saranya, P. Sounthari, A. Zarrouk, S. Chitra, Corrosion inhibition and adsorption behaviour of some bis-pyrimidine derivatives on mild steel in acidic medium, Journal of Molecular Liquids, 225 (2017)
8. **N. Anusuya**, P. Sounthari, J. Saranya, K. Parameswari, S. Chitra, Corrosion inhibition effect of hydroxypyrazoline derivatives on mild steel in sulphuric acid solution together with Quantum chemical studies, 6(6), (2015).
9. **N. Anusuya**, P. Sounthari, J. Saranya, K. Parameswari, S. Chitra, Quantum chemical study on the corrosion inhibition property of some heterocyclic azole derivatives, Oriental Journal of Chemistry, 31(3), (2015).
10. **N. Anusuya**, P. Sounthari, J. Saranya, A. Kiruthika, K. Parameswari & S. Chitra, Isoxazoline derivatives as corrosion inhibitors for mild steel in acid media, International Academy of Science, Engineering and Technology, 3(4), (2014)

Other Publications: National

1. **N. Anusuya** and V S Angulakshmi, Synthesis and characterization of citric acid assisted manganese oxide nanoparticles, Advances in Applied Research, 15, (2023).
2. **N. Anusuya**, J. Saranya, K. Parameswari, S. Chitra, Adsorption and quantum chemical studies on the inhibition potentials of some newly synthesized azole derivatives for corrosion of mild steel in sulphuric acid medium, Corrosion: Fundamental and Practical Aspects for Mitigation Strategies Proceedings of CORSYM, IIT, Madras, Chennai (2015)

Short Term Course - 1

Short term Course on “Nanomaterials for Clean and Sustainable Environment” organized by PSGR Krishnammal College for Women, Coimbatore, 17-22 July 2023.

Paper Presentations in Conference

International - 10

- **Sustainable Approach to Manganese Oxide Nanoparticles: Synthesis, Characterization and Applications with Corn Husk**, 8th International Antalya Scientific Research and Innovative Studies Congress, 25-27 January 2025, Antalya, Turkey
- **Synthesis of copper nanoparticles utilizing biodegradable waste from sugarcane bagasse**, 5th International Congress on Khazar Scientific Research and Innovation, 26-28 December 2024, Turkestan, Kazakhstan.

- **Green Synthesis and Characterization of Mn Oxide Nanoparticles from Corn Husk for Effective Environmental Remediation**, 6th International Black Sea Modern Scientific Research Congress, 23-25 August 2024, Trabzon, Turkiye
- **Eco-friendly Synthesis and Characterization of Manganese oxide Nanoparticles from Corn Husk and its Applications**. 2nd International Virtual Conference on Materials Science and Applications (ICMSA'24), 1-2 February 2024, Seethalakshmi Ramaswami College (Autonomous) Tiruchirappalli
- **Experimental and Computational Approaches on bis-pyrimidine Derivatives of Mild Steel Corrosion in Acid Medium**, 6th International Conference on Recent Advances in Material Chemistry (ICRAMC -2022), 17-19 February 2022, SRM Institute of Science and Technology, Kattankulathur

National – 2

1. Quantum chemical studies and corrosion inhibitive action of pyrimidine derivatives on the corrosion of mild steel in sulphuric acid, Two days National Level Conference on “Role of Phytochemicals and Advanced Materials in Cancer Prevention and Research”, 26-27 February 2020, Nallamuthu gounder Mahalingam College
2. Investigation of hydroxy Pyrazoline derivatives on the corrosion inhibition of Mild steel in acid medium: Experimental and theoretical studies, National Conference on “Recent Advances in Nanotechnology, Chemistry and Environmental Research”, 11-12 December 2014, Kongu Engineering College, Perundurai, Erode,

Participation in Workshop - 2

One day Workshop on Pharmaceutical Industry Trends, Challenges and Insights, organized by PSGR Krishnammal College for Women, Coimbatore.

Participation in Faculty Development Programme - 13

- One-Week Online National Level Faculty Development Program (FDP) on "**Smart Energy Systems for Environmental Sustainability**", organized by **Sri G.V.G. Visalakshi College for Women (Autonomous), Udumalpet**, from **4.01.25 – 11.01.25**.

Participation in Webinar -2

Conference/Seminar/Workshop Organized

National Webinar on “Spectroscopic Methods in Chemistry Research” on 11-12 June 2020
International Webinar on “Frontiers in Chemical Sciences for the New Decade” on 20-21 July 2020
Science Academies Sponsored Refresher Course on “Theoretical and Computational Chemistry” on 27 January – 11 February 2021
International Interdisciplinary Virtual Conference on " Breakthroughs and Approaches in Contemporary Scientific Research" on 17-19 February 2021

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
The Indian Science Congress Association	Life membership	-

Awards/Honors

Awards/Honors	Agency/Institute	Year of Award
Awarded	Certified Entrepreneurship Educator by Wadhwani Foundation	2025

Indexing and Citations

Scopus – 10
Citations – 485
h-index - 9
i10-index - 9

Contribution

- Department Co-ordinator for DST FIST
- Department Association In-charge (2020 - 2021)