

Name : Dr. G. Sathya Priyadarshini

Designation : Associate Professor

Department : Chemistry

Qualification : MSc., MPhil., PhD

Experience : Teaching -17 Years

Research : 9 Years

Area of Specialization(s) : Inorganic Chemistry

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AcademicQualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Chemistry	PSGR Krishnammal Collegge for Women	2019
M.Phil.	Chemistry	Bharathiar University	2008
M. Sc.	Chemistry	Bharathiar University	2006
B.Sc.	Chemistry	PSGR Krishnammal Collegge for Women	2004

Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/ University/ Agency Name	Year
Certification	Innovation Ambassador (IA)	Ministry of Education's Innovation Cell and AICTE through the Institution's Innovation Council (IIC).	2025
Certification	International Online Certificate Course	Sacred Heart College, Tirupattur	2024
Certification	International Online Certificate Course"Microbiology Laboratory Techniques"	Sacred Heart College, Tirupattur	2023
Certification	Coursera	Introduction to molecular spectroscopy	2022
Certification	Coursera	Solar Cells	2022
Certification	CSIR – Summer Research Training Program (CSIR SRTTP 2022)	Professor Prof. Supravat Karak, Department of Energy Science and Engineering IIT Delhi	2022
Certification	Skill Development Training Programme "Basics of High Resolution Imaging Techniques	CSIR – CECRI, KARAIKUDI	2022

	and their applications to Science & Technology”		
Certification	Annual Refresher Programme in Teaching (ARPIT) – 2020	Career Advancement Scheme(CAS) promotion, Online Refresher Course In Chemistry For Higher Education	2021
Certification	National Programme on Technology Enhanced Learning (NPTEL) course	Coordination Chemistry – ELITE Certification	2019
Certification	CSIR – Summer Research Training Program (CSIR SRTP 2020)	CSIR- NEIST, JORHAT	2020
Certification	QIP Sponsored 2-week Online Short Term Course on Bioplastics	IIT, Delhi	2022
Certification	ONLINE COURSE on “Basics of Remote Sensing Geographical Information System and Global Navigation Satellite system”	64th IIRS Outreach Programme through Nallamuthu Gounder Mahalingam College, Tamil Nadu	2020
Certification	Course on “HPLC – Mass Technology”	Karunya University, CBE	

Research Guidance

Programme	No.of Scholars	
	Completed	Pursuing
M.Phil.	1	-
Ph.D	-	1

Research Publications (Indexed)

1. A systematic investigation of Luminescent Schiff Bases: Photophysical and DFT studies. **Chemical Physics Impact**, vol 7, 2023 **Scopus**.
2. Tripodal Schiff base Tris [4-(4-nitrophenyl)-3-aza-3-butenyl] amine nanorod for selective detection of uric acid , **Inorganic Chemistry Communications**, vol.156, 2023 **Scopus**.
3. Synthesis of novel luminescent cyclometallated Platinum (IV) complexes with a quinoline schiff bases ligand and their photophysical properties, **Inorganic and Nano- Metal Chemistry 2022**, <https://doi.org/10.1080/24701556.2022.2068593> **Scopus**
4. Pharmacological Studies on Novel Triazino Quinolines, Namitha R. G. Sathya Priyadarshini, Selvi G. **Advances in Pharmacology and Pharmacy 9(4): 81-86, 2021**.Web of Science

5. Evaluation of the synthesized novel Iridium (III) complexes against HeLa cell lines through in-silico , in-vitro and DNA nicking, G Sathya Priyadarshini,Aathi Muthusankar,Ramesh subramani Selvi Gopal,Manuscript ID: APJCP-2010-6137 (R1) **Asian Pacific Journal of Cancer Prevention 2021, 22(2), pp. 447–455 Scopus.**
6. Non Linear Optical Properties of Potent Quinoline Based Schiff Bases G. Sathya Priyadarshini, Vidya Edathil, Selvi Gopal, **Materials Today: Proceedings, 2021** <https://doi.org/10.1016/j.matpr.2020.11.91> **Scopus**
7. Luminescence Cobalt (II) Complexes: Synthesis, Characterization, Photophysical and DFT Study, G. Sathya Priyadarshini, Selvi Gopal, **Materials Today: Proceedings, 2020** , 2020, 40, pp. S19–S27 **Scopus**
8. Synthesis, Characterisation , Pharmacological studies and Quantum Chemical Calculations of Osmium (III) complex, G. Sathya Priyadarshini, R. Namitha D. Mageswari and G. Selvi* **International Journal of Chemical Sciences,2017;15(3):158**
9. Synthesis Characterization and Antioxidant Activity of Ni (II) and Co (II) Quinoline Schiff Base G.Sathya Priyadarshini, R. Namitha, D. Mageswari, G.Selvi* **International Journal of Innovative Research in Science,Engineering and Technology**, Vol. 5, Special Issue 1, March **2016**, 101-106
10. Study on the Coordination Behavior of Amide Derivatives of Copper (II) Complexes G. Sathya Priyadarshini, G. Selvi* and D. Mageswari, **Chemical Science Review and Letters 2015**, 4(14), 770-776.
11. Synthesis Characterization and Pharmacological Studies on Novel Pyridazino Quinolines G. Selvi*, G. Sathya Priyadarshini and R. Namitha , **Chemical Science Review and Letters 2014**, 3(10), 117-122 Aufau Periodicals
12. Antimicrobial activities of the synthesized Fe(II), Co(II), Ni(II) and Cu(II) Quinoline Schiff Bases Complexes, G. Sathya Priyadarshini, G. Selvi*, **Advances in Applied Research**, Vol 5, No.2 (**2013**) pp 161-165 National Environmentalists Association.

Book Chapter Published

N. Muthulakshmi Andal, N.Shyamala Devi, **G. Sathya Priyadarshini**, P.Amutha, **Life Sciences Protocol - Qualitative Analysis of Sugars**, DBT, www.dbtindia.nic.in; www.svc.ac.in **2018**

Acted as a Resource Person

- Guest lecture @ Vellalar College for Women, Erode
- Induction Programme @ sankara Polytechnic College, Coimbatore
- Guest lecture @ Vivekananda College of Arts & Science for Women, Sankari

Reviewer in journal

- Scientific Reports
- Chinese Journal of Analytical Chemistry
- Journal of Photochemistry & Photobiology, A: Chemistry

Paper Presentations in Conference / Seminars

- **International Conferences / Seminars / Virtual Conferences – 18**
- **National Conferences / Seminars – 12**
- Awarded the **Best Paper Presentation** for the paper entitled “Activity of Novel 1,2,3-triazolo quinolines against SARS-CoV-2- A Molecular docking approach” during the International Conference on "Frontiers of Sustainable Research in Health Care, Food, Agriculture, and Environmental Management" (ICSURE - 2024), held from the 22nd to the 23rd of February, 2024 organised by Guru Nanak College, Chennai

Participation in Conference / Seminar / Workshop/ Faculty Development Programme - 112

Conference /Seminar /Workshop Organized

- Coordinated and organized **seminars, workshops, conferences, guest lectures, and industrial visits** for student exposure and academic enrichment.
- Served as **Chemical Society Secretary** (2013–14 & 2020–21), successfully organizing:
 - 2 International Conference
 - 4 Community-Oriented Programs
 - 4 Industrial Visits
 - 16 Guest Lectures
 - 4 Video Conferences
 - 5 Interdepartmental Competition
- Coordinated and organized NET/SET coaching classes & Alumni lectures.

Grants

- Principal - Investigator for GRG TRUST Project
Entitled “Design and Development of Structure Enhanced Aggregation Induced Delayed Fluorescence (AIDF) RGB Emitters” – (2021 - 2023)
- Co-Investigator for UGC MAJOR Research Project entitled “Microwave assisted synthesis of N-heterocyclic compounds and their application in the inhibition of mild steel corrosion - A combined experimental and theoretical approach” - (2013-2016)
- TNSCST SPS project – entitled “Developing Bio wrappers from Waste Dairy Products” (April 2023-May 2023)
- Co-Investigator for GRG TRUST Project
 - Entitled Synthesis, Structural, Photophysical and Electrochemical study of Ir(III) Complexes with quinolone Schiff Base ligands - (2018-2020)
 - Entitled Quinoline based cyclometallated iridium (III) and rhodium(III) complexes as potent anticancer agents (2017-2018)
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Awards/Honors

Awards/Honors	Agency/Institute	Year of Award
Outstanding Contributor Award	CIIED, PSGRKCW	2024
Best Paper Award	(ICSURE - 2024) Guru Nanak College, Chennai	2024

Indexing and Citations

Citations 43

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Contribution

- Actively engaged with **alumni networks**, facilitating mentoring, career guidance, and departmental collaborations.
- Served as an **active member of the Institution's Innovation Council (IIC)**, promoting innovation, entrepreneurship, and start-up culture among students.
- Developed and implemented **curriculum based on Outcome-Based Education (OBE)**, including preparation of question papers and evaluation of answer scripts.
- Published **research papers in reputed journals** and actively participated in **national and international conferences** to enhance professional knowledge.
- Contributed to **NAAC, NIRF and ISO documentation** at the departmental level.
- Initiated and conducted **NET/SET coaching programs**, motivating students for higher studies and research careers.
- Served multiple times as **Admission In-Charge** and **Class In-Charge** ensuring smooth academic and administrative operations.
- Guided students in **research projects, academic competitions and career-oriented programs**, fostering research aptitude.
- Ensured **timely completion of syllabus** with emphasis on conceptual clarity and application-based learning.
- Possess **in-depth subject expertise in Chemistry**, with proven ability to simplify complex concepts for learners of varying levels.
- Department - BOS member .