

Name: Dr. G. Subashini

Designation: Assistant Professor

Department: Chemistry

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

Experience: Teaching -16 Years

Research: 12 Years

Area of Specialization(s): Organic Chemistry

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Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Chemistry	Department of Chemistry, Bharathiar University	2016
M.Phil.	Chemistry	Bharathidasan University	2007
M. Sc.	Chemistry	PSGR Krishnammal College for Women, (Bharathiar University)	2002
B.Sc.	Chemistry	PSGR Krishnammal College for Women, (Bharathiar University)	2000

AdditionalQualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/Agency Name	Year
Certification	Coursera	John Hopkins University, USA	2022
Certification	Coursera	Nanyang Technological University, Singapore	2022
Certification	NPTEL	AICTE, New Delhi	2021

Research Publications (Indexed) 10 Publications

1. Biologically active perspective synthesis of heteroannulated 8-nitroquinolines with green chemistry approach. T Arasakumar, S Mathusalini, **S Gopalan**, S Shyamsivappan, A Ata, Bioorganic & medicinal chemistry letters 27 (7), 1538-1546.
2. Quinoline appended pyrazoline based Ni sensor and its application towards live cell imaging and environmental monitoring. **G Subashini**, R Shankar, T Arasakumar, PS Mohan, Sensors and Actuators B: Chemical 243, 549-556.
3. Synthesis of first ever 4-quinolone-3-carboxylic acid-appended spirooxindole-pyrrolidine derivatives and their biological applications. T Arasakumar, S Mathusalini, A Ata, R Shankar, **S Gopalan**, K Lakshmi, ...Molecular diversity 21 (1), 37-52.
4. Quinoline-Based Imidazole Derivative as Heme Oxygenase-1 Inhibitor: A Strategy for Cancer Treatment. **G Subashini**, K Vidhya, T Arasakumar, J Angayarkanni, E Muruges, Chemistryselect 3 (13), 3680-3686.
5. A selective Fluorescence Chemosensor: Pyrene motif Schiff base derivative for detection of Cu²⁺ ions in living cells. S Arjunan, **S Gopalan**, S Selvaraj, S Thangaraj, K Krishna, B Nanjan, Journal of Photochemistry and Photobiology A: Chemistry 364, 424-432.
6. An efficient new dual fluorescent pyrene based chemosensor for the detection of bismuth (III) and aluminium (III) ions and its applications in bio-imaging. A Saravanan, S Shyamsivappan, T Suresh, **G Subashini**, K Kadirvelu, ...Talanta 198, 249-256.
7. One-Pot Approach to Pyrido-4-phenanthridinones by Palladium-Catalyzed Annulation of 4-Quinolones with 2-Bromobenzyl Bromides. T Arasakumar, S Shyamsivappan, **S Gopalan**, A Ata, PS Mohan, Synlett 30 (01), 63-68.
8. A versatile “on-off-on” quinoline pyrazoline hybrid for sequential detection of Cu²⁺ and S[–] ions towards bio imaging and tannery effluent monitoring. **G Subashini**, A Saravanan, S Shyamsivappan, T Arasakumar, ...Inorganica Chimica Acta 483, 173-179.
9. Synthesis and X-ray study of dispiro 8-nitroquinolone analogues and their cytotoxic properties against human cervical cancer HeLa cells. S Shyamsivappan, R Vivek, A Saravanan, T Arasakumar, **G Subashini**, ... MedChemComm 10 (3), 439-449.
10. Evaluation of novell-histidine based Schiff base derivatives as microbial-HO inhibitors and their antimicrobial and molecular docking studies. Kalieswaran Vidhya; Kumar Praveen Kumar; Shanmughavel Piramanayagam; Mani Arulkumar; Janani Balraj; Karunyadevi Jairaman; **Gopalan Subashini**; Angayarkanni Jayaraman, J. Molecular Structure, 1270, 133884-133890.

Book Chapters Published

1. Flexible and Wearable Sensors-Transition metal chalcogenides based flexible and wearable sensor, **G. Subashini** and C. Nithya, CRC-PRESS- ISBN-9781003299488(2023)

Short Term Course

- Participated in an One day training programme on Field Emission Scanning Electron Microscope organized by Avinashilingam Institute for Home science and Higher education for women, Coimbatore, on **24th Nov, 2018**.
- Short term Course on “Nanomaterials for Clean and Sustainable Environment” organized by PSGR Krishnammal College for Women, Coimbatore, 17-22 July 2023.

Acted as Resource Person

- Hands on Training on finding food adulteration” organized by the Department of Chemistry under star DBT Star College scheme, Kongunadu Arts and Science College (Autonomous), Coimbatore on 08th January 2024.

- Faculty Development Programme - “Smart Materials for Biomedical Applications” from 05.02.2024 to 09.02.2024, Government College of Technology, Coimbatore.

- Association Inaguration and guest lecture on “Chemosensors For Bio Imaging And Environmental Monitoring”, NGM College, Pollachi, on 7th October 2024

Paper Presentations in Conference

International – 6

- Isatin Modified Graphene Oxide Nanocomposite, A Fluorescent Probe for Selective Detection Of Sodium In Aqueous Media Dr. N.G.P Arts and Science College, International Conference on Innovations in Chemical Sciences (ICS – 2025) on 08.01.2025 and 09.01.2025
- A multi signalling on-off quinoline imidazole conjugate: A fluorescent chemosensor for Fe²⁺, Hg²⁺ and F⁻ ions and bioimaging studies" 6th International Conference on Recent Advances in Material Chemistry (ICRAMC - 2022)
- Synthesis of new Oxazole based quinoline system for its application towards metal ion binding and bioimaging. Paper presented in an national seminar on Chemistry- Frontiers & ChallengesInnovtions in Chemical Sciences and Green Technology held at P.S.G.R. Krishnammal college for women, during 6th-7th September, 2018.
- Synthesis of new imidazole based quinoline system for its application towards fluorescent and molecular docking studies. Paper presented in an international conference on Chemistry- Frontiers & Challenges held at P.S.G.R. Krishnammal college for women, during 5th-7th February, 2014,Subashini Gopalan and Palathurai Subramaniam Mohan
- Participated in International Seminar on Novel Approaches in Chemistry & its Environmental Impacts,NACE'15, held at KPR Institute of Engineering & Technology, Coimbatore, on 26th September 2016.
- Synthesis of New Imidazole based Quinoline system for Heme oxygenase-1(HO-1) Inhibition,Paper presented in 14th Tetrahedron symposia held at Singapore, during October 28th to 31st, 2014, Subashini Gopalan, Vidhya Kaleeswaran, Palathurai Subramaniam Mohan and Angayarkanni Jayaraman

National – 1

- Synthesis and Characterization of Carbon Dots from the Fruits of Murayakoenji, TANSCHÉ Sponsored Two Day National Seminar on “Role of Phytochemicals and Advanced Materials in Cancer Prevention and Research”February 26 th 2020, NGM College, Pollachi.

Participation in Workshop

- One day Workshop on Pharmaceutical Industry Trends, Challenges and Insights, organized by PSGR Krishnammal College for Women, Coimbatore.
- Participated in National Conference on Chemosensors, NCC-2013, held at NIT, Trichy during September19th-20th, 2013.
- Participated in National Level workshop on X-ray Crystallography and its applications (WXRCA-2014), held at School of Chemical Sciences, Bharathiar University, Coimbatore, during 5th-6th March 2014.
- Participated in National Level workshop on Spectroscopy held at School of Chemical Sciences

Bharathiar University, Coimbatore, India.

- Participated in National level workshop on Natural products chemistry held at Bharathiar University, Coimbatore, India.

Participation in Faculty Development Programme - 13

Conference/Seminar/Workshop Organized

- Guest Lecture on **Food Safety Standards & Quality Management Standards, ISO 22000 on 10th January 2021.**
- Guest Lecture on **Orientation on Eat Right India Campus, 13th March 2021.**
- Guest Lecture on **Safe and Healthy Food- Eat right Individual, March 21st 2021.**
- DST-NCSTC sponsored National Webinar on “**One Health-Ore Nalam**” on 9th July 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
INSA- Visiting Scientist Fellowship	Indian Academy of Science, New Delhi	2022
Best Faculty Award	GRG Trust	2025

Indexing and Citations

Scopus – 10
Citations – 334
h-index - 10
i10-index -10

Contribution

- Department Co-ordinator for Safe Food Safe Life- NCSTC-sponsored project
- Incharge GRG Food Quality Testing Laboratory (2019- 2022)
- Department Co-ordinator – Research
- Department Co-ordinator – NASCOM