



SRI SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
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Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairam.edu.in



DEPARTMENT OF CHEMISTRY

Name : Dr. S.DAISYLIN ANBU SUJITHA

Designation : Associate professor

Email : daisylin.chem@sairamit.edu.in

Qualification : M.Sc, Ph.D.

Specialization : CHEMISTRY

Research Interest : Tea Chemistry, Organic Synthesis, Material Science

Experience in years : Teaching UG PG Industry

No. of Workshop/Conferences/
FDP attended : Workshop Conferences FDP

No. of Workshop/Conferences/
FDP Organized : Workshop Conferences FDP



Professional Membership	<ol style="list-style-type: none"> 1. ACS community Associative membership 2. ISTE Lifetime Membership 3. Member in IA ENG 4. IEEE Member from 2022 onwards 5. Member of the IEEE Photonics Society 6. Member of the IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society 7. Member of the Electron Device Society 8. Member of the Nanotechnology Council 9. Member of the IEEE sight 10. Member of the IEEE Smart Cities community 11. Member of the IEEE Public Safety Technology Community
Publications	19

Research Funded Projects	Nil
Patents	<ol style="list-style-type: none"> 1. Title of the invention: An Optimized bellow to increase the efficiency and stability of the pipe. Published Date: 05/03/2021. 2. Title of the invention: Water Purifying and Flavour Infusion Devices. Granted Date:12/08/2021. 3. Title of the invention: Synthesis, Characterization, Antimicrobial and Anticancer Activities of Pyrimidine, Pyridine-Based Benzamide Derivatives. Publication Date: 30/12/2022. 4. Title of the invention: ZnO Nanoparticle Coated Cassia Auriculata Flower, Cumin, Fenugreek, Aspartame Grinded Powder Mixed Chewable Tablet for Diabetic Control. Publication Date: 30/12/2022. 5. Title of the invention: Aquatic Weed Detecting and Water Testing Device. Publication Date: 30/03/2024. 6. Title of the invention: Eggshell-Derived Catalyst Pyrolysis Process for Converting Waste Plastics into Fuel Oil
Book Published	4
Achievements	Nil
Any Other Information	

List of Publications:-

1. Venkatesan S and **S Daisylin Anbu Sujitha (2007)**, "Influence of Genotype and Manufacturing Process on the Activity of β - D -glucosidase and β - galactosidase in Tea", '*American Journal of Plant Physiology*', 2(2): 175 - 182.
2. **Daisylin Anbu Sujitha S**, Ramasamy Shanmugasundaram Senthil Kumar, Govindasamy Kottur and Subramanian Murugesan (2011)," Extraction of polyphenols from green tea and their external addition during fermentation on black tea quality", *Journal of Bio-science and Research*, Vol. 2(2): 93-100
3. **S. Daisylin Anbu Sujitha (2015)**," Studies on usage of tea waste in waste treatment", *International Journal of Applied Engineering Research*, V.10(33):24413-24428.
4. **S. Daisylin Anbu Sujitha (2015)**," Production of flavoured tea by adopting different flavour", *International Journal of Applied Engineering Research*, V.10, No (33):28145-28163.
5. **S. Daisylin Anbu Sujitha**, R. Kiruthika, A. Raja Bhuvaneswari (2021), "A study of weight reduction corrosion in acid-influenced metals", *Materials Today: Proceedings*, vol. 46: 3614-3617.
6. **Dr. S. Daisylin Anbu Sujitha**, Chellam Jaynthy (2021), Inhibition of Osteoporosis by Endophytes – A Computational Approach, *International Journal of Pharmaceutical Research* vol.13:876-880.

7. Govindasamy Kottur, **Sugumar Daisylin Anbu Sujitha** (2022), Phenolic profiles and antioxidant power of different types of tea products, *Gradiva Review Journal*, vol:8(9)393-400.
8. A. Rajabhuvaneswari C.S. Vijai and **S. Daisylin Anbu Sujitha**, (2022), Synthesis, Characterization, and Photocrosslinking Studies of New Photosensitive Polyacrylates as A Negative Photoresist Material, *International Journal of Research and Analytical Reviews* vol:9(2),847-856.
9. Chokalingam Saravanan, **Sugumar Daisylin Anbu Sujitha**, Marimuthu Senthilkumaran, · Poovan Shanmugavelan, Kandhasamy Durai Murugan · Paulpandian Muthu Mareeswaran (2023), Photophysical Properties of Linear, Net-structured and Branched Polybenzimidazoles, *Journal of Fluorescence* 33:125–134.
10. **S. Daisylin Anbu Sujitha**, J. Jeswin Arputhabalana, B. Karthikeyana, K. Sivakumarb, R. Sasikala (2022), Experimental investigation on sun-dried bricks with addition of lignin, *Materials Today: Proceedings*.
11. **S Daisylin Anbu Sujitha** and S Jeyaram, (2023), Microwave-assisted extraction of betanin from beta vulgaris and their characterization and applications to nonlinear optics, *Indian Journal of Physics*, vol: 98, 1843-1848.
12. M. Nandhini, G. Arunsankar, **S. Daisylin Anbu Sujitha**, R. Venkatasubramanian (2023), Monitoring of Photovoltaic Fed Induction Motor Control using IoT, (*ICECAA 2023*), 1323-1328.
13. Kottur Govindasamy, **Daisylin Anbu Sujitha Sugumar**, N. Mani Kandan, N. Nagaprasad & Krishnaraj Ramaswamy, (2023), Seasonal variations in the phenolic profile, antioxidant activity, and mineral content of south Indian black tea (*Camellia sinensis* (L.) O. Kuntze), *Scientific Reports*.13 (1):18700.
14. N. Vijaya1, **S. Daisylin Anbu Sujitha**, Amalraj Shankar, Suhas Khot C, Barath Kanna Mohamad S. AlSalhi, T. Selvankumar, Seong- Cheol Kim Madhappan Santhamoorthy ,Pugalenthi Ramesh(2024). ZIF- 67 derivatives of NiCo2S4 Decorated in Salen-Complex Amine Functionalization GO Layers for High- Performance Applications in Supercapacitor Devices, *Luminescence*,1-13.
15. Dr. G. Sumathi, P. Sudha Juliet, M. Shafiya Banu, **Dr. S. Daisylin Anbu Sujitha** (2024), Molecular Design for Drug Discovery with the Use of Generative Adversarial Networks, (*ICESC 2024*),885-890.
16. **S. Daisylin Anbu Sujitha**, S. Lavanya, Natarajan Arumugam, Abdulrahman Almansour · S. Jeyaram.(2025), Polar and non-polar solvents induced nonlinear optical characteristics of natural dye extracted from lawsonia inermis, *Journal of Optics*.
17. **S. Daisylin Anbu Sujitha**, K. Gilbert Ross Rex, C. Priya, A. Mageswari, M. Santhamoorthy, Pugalenthi Ramesh (2025), Hybrid Material of Salen Moieties Functionalized 2D- Iodinated GO: A Fluorescent Chemosensor for Cr³⁺ Ion Detection, *Luminescence*. <https://doi.org/10.1002/bio.70228>.
18. **S Daisylin Anbu Sujitha**, K Jayasheela, A G B Dileepan, N Arumugam, A I Almansour, M Santhamoorthy and S Jeyaram (2025), Experimental and computational study of nonlinear optical behavior of rasazurin sodium salt with different dye concentrations, *Indian Journal of Physics*, <https://doi.org/10.1007/s12648-025-03784-w>.

19. S. Daisylin Anbu Sujitha, A. G. Bharathi Dileepan, G Murali, Natarajan Arumugam, Abdulrahman I. Almansour, Kasireddy Sudarshan & S. Jeyaram (2025). Green synthesis, characterization, linear and nonlinear optical properties of copper oxide nanoparticles using Senna auriculata leaf extract, *Spectroscopy Letters* <https://doi.org/10.1080/00387010.2025.252399>.

Book published

1. S. Daisylin Anbu Sujitha, R. Arun Kumar, S. Shanthi, S. Chitra, Engineering Chemistry -II, Sri Maruthi Publishers: ISBN: 978-93-80757-41-4.
2. A. Kulandaisamy, M. Vigneswari, S. Daisylin Anbu Sujitha, Environmental Science and Engineering, Sri Maruthi Publishers: ISBN: 978-93-80757-04-9.
3. S. Daisylin Anbu Sujitha and S. Shanthi, Engineering Chemistry Laboratory Manual I & II, Sri Maruthi Publishers: ISBN: 978-93-80757-07-7.
4. Rajabhuvaneswari Ariyamuthu and S. Daisylin Anbu Sujitha, Air pollution and control Engineering, Kripa Drishti Publications, Pune: ISBN: 978-81-948755-7-4.

Workshop / Conferences / FDP Attended: -

1. Attended an International conference on “Materials for Energy and Nano Convergence” at Hindustan University on 4th -6th July, 2013
2. Attended a one day national level workshop on “Green Composites” by the Department of Mechanical Engineering at Sri Sairam Institute of Technology, on 27th August, 2014.
3. Attended a one day national level workshop on “How to write Research papers for Refereed Journals” at Sri Sairam Institute of Technology, on 24th January, 2015.
4. Attended a one day Seminar on “Nano materials for green Processes” by Department of Chemistry at SSN College of Engineering, on 26th March, 2015.
5. Attended a National conference on “Advanced materials and its applications” by Department of Physics in association with Materials Research Society of India, Chennai chapter & Indian Association for crystal growth at Hindustan University, on 29th & 30th January, 2015.
6. Attended a INDO-SWEDEN clean energy symposium on “Materials Energy Harvesting and storage” at Hindustan University, on 21st & 22nd July, 2015.
7. Attended an International conference on “Advances in micro/nano technologies for biological applications” by PSG Institute of Advanced Studies, on 7th-8th August, 2015.
8. Attended a National level Faculty Development programme on “Teaching Excellence in Engineering & Management curriculum by Department of Management Studies at Sri Sairam Engineering College on 20th & 21st June 2016.
9. Attended a one-day national level workshop on “Advancements in chemical sciences” by Department of chemistry at Sri Sairam Institute of Technology, on 18th July, 2016.

10. Attended an International conference on "Green chemistry and sustainable environment" by Department of Chemistry at B.S. Abdur Rahman University, on 2nd -3rd August, 2016.
11. Attended a Two-day seminar on "Emerging trends in materials and Technology" at Jeppiaar Engineering College, on 27th -28th July, 2017.
12. Attended a Faculty Development programme on "Characterization of materials" by Department of Physics at Sri Sairam Institute of Technology, on 20th -21st July, 2017.
13. Attended a faculty development programme on "Skill Development in research, projects and patent filing" by Department of Science & Humanities at Saveetha Engineering College, on 17th February 2018.
14. Attended a National workshop on computational tools in biomolecular research by the Department of Bioinformatics at Satyabhama University, on 1st to 3rd February 2018.
15. Attended FDP on Engineering Teaching Pedagogy and Teaching Learning Process. at SSIT from 3.12.2018 to 7.12.2018.
16. Attended National Workshop on Computational Tools in Biomolecular Research at Sathya Bama University from 6.2.2019 to 8.12.2019.
17. Attended FDP on 2D Nanomaterials: Potential & Applications through ICT at Sathya Bama University from 17.10.2022 to 21.10.2022.
18. Attended FDP on Essential Industrial Chemistry for Engineers at Sathya Bama Institute of Science and Technology, deemed to be University from 05/09/2022 to 09/09/2022.
19. Attended FDP on current scenario in Advanced Materials Research and Nanotechnology at Rajapalayam Rajus College from 21/11/2022 to 25/11/2022.
20. Attended FDP on Spectroscopic and Chromatographic Techniques at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore from 24/04/2023 to 28/04/2023.
21. Attended FDP on Recent Research Developments in chemistry at Easwari Engineering College, from 24.07.2023 to 29.07.2023.
22. Attended FDP on Concepts of Computational Chemistry (WCCC-2023) Sathya Bama Institute of Science and Technology from 11th- 17th July, 2023.
23. Attended FDP on Advance Tools and Techniques for Research Methodology organized by Research Foundation of India & RFI-CARE from 3 – 12 June 2024.
24. Attended FDP on Research Trends and Applications of Nanoscale Device and circuits organized by National Institute of Technology, Warangal from 20th – 31st July 2024.
25. Attended FDP on "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 5th August to 9th August 2024.
26. Attended FDP on "Advances in Material Chemistry for Global Challenges - 2025" Organized By The Department of Smart And Sustainable Materials: SRM Institute of Science and Technology, Ramapuram, Chennai in association with Society for Advancement in Chemical Sciences and Education (SACSE), IGCAR, Kalpakkam from 21st July, 2025 to 26th July, 2025.

Workshop / Conferences / FDP Organized: -

1. Organized a One Day National Level Workshop on **“Role of polymers in modern engineering materials”** organized by the Department of Science & Humanities at **Sri Sairam Institute of Technology** on 12th March, 2013.

S. Daisylin Anbu Sujitha