

Dr. J. SATHIYA SAVITHRI, M.Sc., Ph.D.

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OBJECTIVE

To pursue a growth oriented career in an organization that offers responsibilities as well as job satisfaction so that I can make a substantial and positive impact towards the success of the institution.

EDUCATIONAL PROFILE

- ✓ **Doctor of Philosophy (Organic Chemistry)** in University of Madras, Chennai-25. (Sep 2013 - Dec 2019)
- ✓ **Master of Science (Organic Chemistry)** in University of Madras **with first rank Holder**, Chennai-25. **2011-2013, (75.33 %)**
- ✓ **Bachelor of Science (Chemistry)** in Quaid -E-millath College for women, Chennai-2, **2008-2011 (85.31%)**
- ✓ **HSC**, in Girl's Hr. Sec. School at Gingee, Villupuram District - **2008 (70.3%)**.
- ✓ **S.S.L.C** in High School at Illodu, Villupuram District- **2006 (82.2%)**.

EXPERIENCE IN TEACHING

- ✓ **Working as Assistant Professor in Department of Chemistry at Theivanai Ammal College for Women (Autonomous), Villupuram, Tamilnadu, India, June 2020- Till date.**

Experience in Research

- ✓ **Senior Research Fellow** during **2016 to 2018** in **University of Madras** funded by **DST-INSPIRE FELLOW**, New Delhi.
- ✓ **Junior Research Fellow** during **2013 to 2016** in **University of Madras** funded by **DST-INSPIRE FELLOW**, New Delhi.
- ✓ **At Doctorate level:** Synthesis, Characterization and Bioactivity of Rhodamine B and Chalcone Decorated Dendrimers with ether and Triazole Functionality as Branching Units.
- ✓ **At post graduate level:** Studies on the synthesis of sugar – based bis-triazole derivatives.

KEY SKILLS

- Explanation skills
- Can teach the students as per their level
- Good communication skills
- Literature survey
- In depth knowledge of the subjects

Leadership qualities

- Handled practical classes for B.Sc and M.Sc students
- Conducted monthly assessment tests to check the performance and improvement of the students
- Taught them using various audio-visual interface using powerpoint presentation
- Handling other responsibility in case if required

SOFTWARE PROFICIENCY

Microsoft Office, chemdraw, orgin, Scifinder

RESEARCH PAPERS PUBLISHED

1. “3’,6’,-Bis(diethylamino)-2-(prop-2-ynyl)spiro[isindoline-1,9-xanthen]-3-one.” Aamina Naaz, Y.; SubbiahPandi, A.; **Sathiya Savithri, J.**; Rajakumar, P.; *International Journal of Acta Crystallographica*, **2016**, 1, x160772. (I.F – 2.0761)
2. “Synthesis and Structural Analysis of the Crystal Methyl 3,5-Bis(Ethynyloxy)Benzoate.” Sivaranjani, T.; Sakthimurugesan, K.; Rajakumar, P.; **Sathiya Savithri, J.**; Aamina Naaz, Y.; *International Journal of Scientific & Engineering Research*, **2017**, 8, 1714-1722. (I.F – 4.216)
3. “Synthesis, Photophysical, and Antioxidant Properties of Rhodamine B Decorated Novel Dendrimers.” **Sathiya Savithri, J.**; Rajakumar, P.; *Australian Journal of Chemistry*, **2018**, 71, 399–406. (I.F – 1.226)
4. “Synthesis, Photophysical, Antibacterial and Molecular Docking Studies on Aromatic Ring Core-Containing Rhodamine B Decorated Triazole Bridged Dendrimers.” **Sathiya Savithri, J.**; Rajakumar, P.; *New Journal of Chemistry*, **2018**, 42, 19390-19399. (I.F – 3.288)
5. “Synthesis, Photophysical Property and Antibacterial Activity of Rhodamine B Decorated, Mesitylene Cored and Methylene *p*-Phenoxy Bridged Dendrimers” **Sathiya Savithri, J.**; Rajakumar, P.; *Chemistry Select*, **2019**, 4, 10143– 10148. (I.F – 1.811)
6. “Synthesis, Optical, Electrochemical Properties and Anticancer Activity of (S)-BINOL Cored Triazole Bridged dendrimers decorated with rhodamine B surface group” **Sathiya Savithri, J.**; Rajakumar, P.; *RSC Advances*, **2019**, 9, 36994-37002. (I.F – 3.070)

7. “Structural and physical characterizations of an organic Dispiro-Oxindolopyrrolidines single crystal for magnetic applications” G. Vimala, Perumal Rajakumar, P. Vinothkumar, Manoj Mohapatra, Perumal Prabhakara, **J. Sathiya Savithri**, Priya Murugasen ; *Journal of Molecular Structure*.2021.
8. Qualitative analysis and In vitro antibacterial activity of *Azadirachta indica*” S Monisha, M Manju, S Mahalakshmi, **Sathiya Savithri** ; *International Journal of Botany Studies*, **2022**, 7, **193-198**.
9. Phytochemical screening of *Euphorbia hirta* L and antioxidant properties” R Lavanya, M Monisha, M Narmatha, S R Fouzeeya begum, **J Sathiya Savithri** *International Journal of Botany Studies*, **2022**, 7, **228-234**.
10. Antibacterial activity and qualitative phytochemical study of *Hibiscus rosa sinensis*” P Magalakshmi, A Mandhurya, N Nandhini, C Abinaya, **J Sathiya Savithri*** *International Journal of Botany Studies*, **2022**, 7, **235-239**.
11. “Phytochemical analysis and antibacterial activities of *Curcuma longa*” M Nakshathira, N Mohanasundari, K Krishnapriya, N S Shri Gayathri, **J Sathiya Savithri**; *International Journal of Botany Studies*, **2022**, 7, **240-244**.
12. Synthesis Of Fuels And Feedstock From Waste Plastic., S.Shobana, P.Gayathri, J.Vinisha, M.Sheela, **J Sathiya Savithri**; *Dogo Rangsang Research Journal*, **2022**, 12, 70-74
13. “Phytochemical study of qualitative, quantitative and antioxidant, antibacterial studies of *Ipomoea aquatic*” S Gayathri, J Priyanka, A Hema, **J Sathiya Savithri**; *International Journal of Botany Studies*, **2022**, 7, 73-79.
14. “Phytochemical , antioxidant and antibacterial activity of *Solanum Trilobatum*” A Hema, **J Sathiya Savithri**; *International Journal of Botany Studies*, **2022**, 7, 61-66.
15. Phytochemical study of qualitative and antioxidant, antibacterial studies of *Solanum Nigrum* Linn., **J Priyanka, J Sathiya Savithri**; *International Journal of Botany Studies*., **2022**, 7, 67-72

CONFERENCES

1. Presented at Conference on chemistry for renewable energy (ICCRE-2016)” held at PG and Research Department of organic chemistry, Bishop Heber college (autonomous), thiruchirapalli-620017, during Feb 25-26, **2016**.
2. Poster presented at 21st CRSI National Symposium in Chemistry held at CSIR-Indian institute of Chemical Technology, Hyderabad, India, during July 14-16, **2017**.
3. Presented poster in 2nd International conference on advances in new materials (ICAN-2018) held at University of madras, Guindy campus, Chennai- 25 during June 08-09, **2018**.
4. Participated in one day national level seminar on recent advances in chemistry and materials science (RACMS-2023) held at Sacred heart arts and science college, perani at villupuram dt, on Feb 15th, **2023**

ATTENDED ONLINE WEBINARS

1. Participated Webinar on *Tourism Revange* on 23rd June 2021, Organized by Theivnai Ammal College for Women, Villupurm
2. Participated Webinar on *SPECTROSCOPY: INTRODUCTION AND RECENT ADVANCES* on 23rd June 2021, Organized by Department of Chemistry, Theivanai Ammal College for Women, Villupurm.
3. Participated Webinar on *Electrochemical Devices: Exploring the of electrolyte and electrode* on 21st Oct 2021, Organized by Department of Material Chemistry, Saveetha school of Engineering, Chennai.
4. Participated Webinar on *Emotional Intelligence and leadership* on 19 Aug 2021, Organized by Department of Commerce, St. Justin arts and science college for women, Sivagangai
5. Participated Webinar on *“International webinar on Chemical science and Technology-2021”* on 27 Aug 2021, Organized by Department of Chemistry, Srinivasa College of Arts and science college, perambalur.
6. Participated Webinar on *“Hydrogen Fuel of the future”* on 20 Oct 2021, Organized by Department of Chemistry, E.S Arts and science college, Villupuram.
7. Participated Webinar on *“Hydrogen Fuel of the future”* on 20 Oct 2021, Organized by Department of Chemistry, E.S Arts and science college, Villupuram.
8. Participated Webinar on *“professional development Programmes”* on 18th and 19th june 2021, Organized by Department of Chemistry, Theivanai Ammal College for Women, Villupurm.
9. Participated Webinar on *“Atomic Energy”* on 10th August 2021, Organized by Department of physics and research and development cell, Theivanai Ammal College for Women, Villupurm.
10. Participated workshop on *“outcome based education-mapping/attainment”* on 24th nov 2021, Organized by curriculam develop cell, Theivanai Ammal College for Women, Villupurm.
11. Participated national level online quiz on *“Awarness about Covid-19 and vaccination”* on 8th August 2021, Organized by Sacret heart college, tiruppatur.
12. Participated workshop on *“development of e content delivery management system”* on 16th march 2022, Organized by Internal quality assurance cell, Theivanai Ammal College for Women, Villupurm.
13. participation in the online webinar conducted on *“Stimulated Luminescence and Applications”* organised by the Dept. of Physics and Dept. of Chemistry, Presidency University, Bangalore on the 24th of December, 2022.
14. participated in the International Lecture titled "Multidisciplinary Research in Education " organized by DPG Degree College, DPG School of Technology and Management & Chodhary Partap Singh Memorial College of Education in association with Department of Research & Publications, A2Z EduLearningHub LLP on 09-02-2023

15. participated in 7 days online FDP programme conducted from SRM INSTITUTE OF SCIENCE AND TECHNOLOGY Ramapuram Campus, Chennai - 600 089 held on 04/07/2022 to 10/07/2022.
16. participated in 7 days online FDP programme the “MoE IIC Impact Series I & II” organized by SRM Institute of Science and Technology, Ramapuram Campus, Chennai on 22.07.2022 and 29.07.2022
17. participation in 5 days online Faculty Development Program on ‘Advances in Characterization Techniques’ organised by the Department of Physics and Department of Chemistry, Presidency University, from 10th to the 14th of October, 2022.

POST GRADUATE SUPERVISION

- Academic Year 2019-2021- (M.Sc, 7 Students) -TACW.
- Academic Year 2019-2022- (B.Sc, 12 Students) -TACW.
- Academic Year 2020-2022- (M.Sc, 04 Students) -TACW.
- Academic Year 2020-2023- (B.Sc, 12 Students) –TACW
- Academic Year 2020-2023- (M.Sc, 03 Students) –TACW

EVENTS ORGANIZED

- Board of Studies Meeting Attended as a Internal Member in Department of Chemistry, Theivanai Ammal College for Women, held on 22 Jan, 2021.
- Committee Member of National Conference on Analytical & Materials Chemistry for Everyday Life (AMC-21), Department of Chemistry, TACW, Feb 3- 2021.
- Given the Invited Lecture and Demo Class on the Rotary Evaporator at conducted in DST -FIST Research Lab, R&D Lab, TACW, 16 Feb, 2021.
- Committee Member in Controller of Examination at Theivanai Ammal College for Women, Villupuram.
- Video Conference Coordinator in Department of chemistry at Theivanai Ammal College for Women, Villupuram.
- Industrial Visit Coordinator in Department of Chemistry at Theivanai Ammal College for Women, Villupuram

AWARDS AND RECOGNITION

- Thiru R. H. Ramachandra Rao Gold Medal -Ph.D., received from University of Madras.
- Awarded the DST INSPIRE FELLOWSHIP in Nov 2013
- First Rank in M.Sc. Organic Chemistry in Department of Organic Chemistry at University of Madras
- Best student of the year 2009-2010 for excelling in education, date 26.8.2010 from MOTHER TERESA'S birthday celebration 2010 .

- PROF S. SWAMINATHAN ENDOWMENT LECTURESHIP & PRIZES II
- “PROF K. K. BALASUBRAMANIAN 60TH BIRTHDAY FELICITATION PRIZE
- Acted as Resource person in Phase-I and Phase-II of “INSERVICE TRAINING PROGRAMME FOR SCIENCE TEACHERS” Supported by Tamilnadu state council for science and technology held during 25th, 26th jully 2022 and 23rd and 24th August 2022.

PERSONAL DETAILS

Name	:	J. Sathiya Savithri
Date of Birth	:	04/04/1991
Father's name	:	J, Jothinathan
Gender	:	Female
Nationality	:	Indian
Marital status	:	Married
Languages known	:	Tamil, English

REFERENCES

1. **Dr. P. Rajakumar**, Ph.D., Professor (Retd), Department of Organic chemistry, University of Madras, Chennai – 600025. Mobile: +91-9444120758, E-Mail: perumalrajakumar@gmail.com
2. **Dr. R.Anandhan**, Assistant Professor, Department of Organic chemistry, University of Madras, Chennai – 600025. Mobile: 09962775342, E-mail: ananthanramasamy@gmail.com
3. **Dr.(Mrs). S. Vasanthi** Ph.D., HOD & Associate Professor, Departmet of chemistry, Quaid –E-Millath Government college for Women (Autonomous), Chennai- 600002. Mobile: 9789810198.

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Yours sincerely,
[J. SATHIYA SAVITHRI]