


<b>Name:</b> <b>Dr. S. SATHIYAMOORTHY</b>	<b>Photo</b> 			
<b>Designation:</b>	Associate Professor			
<b>Qualification:</b>	M.Sc., M.Phil., B .Ed., Ph.D.			
<b>Area of specialization:</b>	Crystal growth and Crystallography			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	Nil		27 years and one month	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	5		8	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
			1	11
<b>Books / Book Chapters</b>	Nil			
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	Nil		Nil	
<b>Professional Body Membership</b>	IEEE and ISTE			
<b>Staff Achievements</b>	1. <b>“Best Paper Presentation award”</b> for the research work entitled “Synthesis, molecular docking, quantum mechanical calculation and anticancer activities of some curcumin analogues : 2,6-(Difurfurylidene) cyclohexanone and 2,6-Bis(2,6-Dichloro Benzylidene).cyclohexanone” presented			

at 3<sup>rd</sup> Virtual conference on Recent Trends in Clean Technologies for sustainable Environment (CTSE 2022) organised by Center of Excellence in Water Research, Sri Sivasubramaniya Nadar College of Engineering, Chennai on September 15<sup>th</sup> & 16<sup>th</sup>, 2022.

2. **“Second Prize in oral Presentation”** for the research work entitled “Synthesis, growth, spectral, structural, optical, thermal, dielectric and nonlinear optical studies of new arylidene crystal: 2,6 – Bis (2,3-Dimethoxy benzylidene) cyclohexanone” International Conference on Recent Trends in Engineering Materials and Renewable Energy (ICEMRE-2018) held on January 04 & 05, 2018 at Anna University – Villupuram Campus, Villupuram.

## Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.,	Physics	1993	AAGAC Cheyyar	University of Madras	62.52%	I
	B.Ed	Physical science and English	1994	Institute of Advanced study in Education	University of Madras	49.6 % (Theory)	III
						62.6% (Practicals)	I
PG	M.Sc.,	Physics	1996	Pachaiyappa's College for men, Kanchipuram	University of Madras	62.25%	I
	M.Phil.,	Physics	1998	-	Anna University	64.4%	I
Ph.D	Ph.D	Physics	2019		Anna University		

## Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Muthukumaran Institute of Technology	Senior Lecturer	16.10.1997	05.05.2008	10	6	21
Sri SaiRam Engineering College	Senior Lecturer	02.06.2008	31.7.2012	4	1	29
	Assistant Professor	1.8.2012	31.7.2016	3	11	30
	Associate Professor	1.8.2016	Till Date	8	4	15
<b>Total</b>				<b>27</b>	<b>1</b>	<b>5</b>

## Workshops/Seminars attended:

1. Attended Workshop on "MicroFabrication and Nano Technology" from 23<sup>rd</sup> to 25<sup>th</sup> September 2010, organized by Shridi Sai Engineering College, Anekal, Bengaluru
2. Attended National level workshop on "Revealing the advances in Material science" at Sri Sairam Institute of Technology, Chennai held on 19<sup>th</sup> and 20<sup>th</sup> July 2016.

3. Attended International level workshop on "Smart Material Sensor and Energy Device, SMSSED-2020", from 25<sup>th</sup> to 30<sup>th</sup> May 2020, organized by the Department of Electronics and Communication Engineering of SSN College of Engineering, Kalavakkam, Chennai.
4. Attended National seminar on "Innovative Nano Materials and its Applications" held on 14.10.2022 at Department of Physics, SIMATS school of Engineering, Chennai 602105.
5. Attended National workshop on "Hands on training programme useful tools to efficiently create Research Summary" held on 22.7.2024 at Department of Physics, SRM Institute of Science and Technology, Ramapuram, Chennai.
6. Attended National workshop on "Synthesis of Nanomaterials using Electrochemical Methods, Characterization and Applications" held on 26.7.2024 at Department of Chemistry (S&H), Sri Sairam Engineering College, Chennai.

#### **FDP/STTP Attended:**

1. Attended Staff Development Programme on "Recent developments in computing" at Sri Sai Ram Engineering College, Chennai.
2. Attended the Faculty development and training programme on 'Student Induction Programme' at CEG, Anna University, Chennai on 13.05.2019 to 15.05.2019.
3. Attended the Faculty development and training programme on 'Student Induction Programme' at CEG, Anna University, Chennai on 10.06.2019 to 16.06.2019.
4. Attended the faculty development programme on "Design of Nanoelectronics and Nanophotonic Devices Using Advanced Software Tools" (DONEPAST-2020) held from 26.04.2021 to 08.05.2021 through Online mode, organised by the Dept. of Electronics & Communication Engineering, GITA Autonomous College, Bhubaneswar, Odisha, India
5. Attended AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Novel Materials and their Applications" from 19.07.2021 to 23.07.2021 at Maharaja Ranjit Singh Punjab Technical University, Bathinda.
6. Attended IP awareness program under "National Intellectual Property Awareness Mission" on 19.9.2022 conducted by Prince Sri Venkateswara Padmavathy college of Engineering, Chennai.
7. Attended the Virtual Faculty development programme on "Recent advances in Chemical Sciences" organised by K.S.R College of Arts and Science for women, Thiruchengode, during 27.11.23 to 1.12.23.
8. Attended the Virtual Faculty development programme on "Embracing sustainability as opportunity" organised by Department of Pedagogical Sciences, Tamil Nadu Teachers Education, University & Academic Staff College & Faculty of Education, Dr.M.G.R. Educational and Research Institute, Chennai, during 03.06.24 to 07.06.24.
9. Attended the Virtual Faculty development programme on "Frontiers in Materials Research, Innovations and Entrepreneurship" organised by Department of Humanities and Sciences (Physics), Sri Sairam Engineering College, during 25.7.24 to 8.8.24.

#### **Symposium Attended:**

#### **Conference Attended:**

- "Synthesis, molecular docking, quantum mechanical calculation and anticancer activities of some curcumin analogues : 2,6-(Difurfurylidene) cyclohexanone and 2,6-Bis(2,6-Dichloro Benzylidene) cyclohexanone" 3<sup>rd</sup> Virtual conference on Recent Trends in Clean Technologies for sustainable Environment (CTSE 2022) organised by Center of Excellence in Water Research, Sri Sivasubramaniya Nadar College of Engineering, Chennai on September 15<sup>th</sup> & 16<sup>th</sup>, 2022.

- “Interaction Behaviour of cyclohexanone derivatives: Density functional theory, Molecular docking and in-vitro cytotoxicity for anti-cancer activity” 2<sup>nd</sup> Virtual conference on Hierarchically Structured Materials (ICHSM 2022) organised by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai on March 24<sup>th</sup> & 25<sup>th</sup>, 2022
- “Synthesis, growth, spectral, structural, optical, thermal, dielectric and nonlinear optical studies of new arylidene crystal: 2,6 – Bis (2,3-Dimethoxy benzylidene) cyclohexanone” International Conference on Recent Trends in Engineering Materials and Renewable Energy (ICEMRE-2018) held on January 04 & 05, 2018 at Anna University – Villupuram Campus, Villupuram.

**Completed / Ongoing Projects:** Nil

**Patent:** Nil

#### **Journal Publications:**

1. C Selvakumar, VT Geetha, S Sathiyamoorthi, R Sharan “Third order NLO study of Manganese doped Copper Sulfide Nanoparticles for Optical Evolution” Journal of Nonlinear Optical Physics & Materials.
2. S. Sathiyamoorthi, Meganathan Chandrasekaran, K. Thiruppathi, P. Padmanathan c, S. Subashchandrabose, S. Gomathi “Synthesis, characterization, quantum mechanical calculations and biomedical docking studies on curcumin analogs: 2, 6-(Difurfurylidene) cyclohexanone and 2, 6 – Bis (2,6-DichloroBenzylidene) Cyclohexanone” Heliyon Vol 10, Issue 24, e38300.
3. Jesby George, A.K.Thomas, D.Sajan, S.Sathiyamoorthi, P.Srinivasan, Nithin Joy, RejiPhilip (2020)“Experimental and DFT/TD-DFT approach on photo-physical and NLO properties of 2, 6-bis (4-Chlorobenzylidene) cyclohexanone” Optical Materials Vol 100, 109620.
4. S. Sathiyamoorthi and P. Srinivasan (2018) “Synthesis, spectral, thermal, optical and dielectric studies of new arylidene NLO crystal: 2,6 – Bis (2,6-dichloro benzylidene) cyclohexanone” Materials Research Innovations, Vol. 23, No. 6, 354–358.
5. S. Sathiamurthi and P.Srinivasan “Synthesis, growth, spectral, optical, thermal, dielectric and nonlinear optical studies on new arylidene crystal: 2,6-difurfurylidene cyclohexanone” JCPS Volume 9, Issue 2, April - June 2016, 1017-1020.
6. S. Sathiya Moorthi, K. Chinnakali, S. Nanjundan, S. Radhakrishnan and Hoong-Kun Fun “3-(3-Bromophenyl)-1-(2-naphthyl)prop-2-en-1-one” Acta Cryst. (2007). E63, o692–o694.
7. S. Sathiya Moorthi, K. Chinnakali S. Nanjundan, R. Balaji and Hoong-Kun Fun “3-(4-Methylphenyl)-1-(2-naphthyl)prop-2-en-1-one” Acta Cryst. (2005). E61, o3885–o3887.
8. S. Sathiya Moorthi K.Chinnakali, S. Nanjundan R. Santhi and Hoong-Kun Fun “1-(4-Aminophenyl)-3-(3-bromophenyl)prop-2-en-1-one” Acta Cryst. (2005). E61, o3514–o3516.
9. S. Sathiya Moorthi, K. Chinnakali, S. Nanjundan, P. Selvam, Hoong-Kun Fun and Xiao-Lan Yu “3-(3-Hydroxyphenyl)-1-(4-methoxyphenyl)-prop-2-en-1-one” Acta Cryst. (2005). E61, o743–o745.
10. S. Sathiya Moorthi, K.Chinnakali, S. Nanjundan, C. Sreekuttan Unnithan, Hoong-Kun Fun and Xiao-Lan Yu “1-(4-Bromophenyl)-3-(3-hydroxyphenyl)-prop-2-en-1-one” Acta Cryst. (2005). E61, o483 -o485.
11. S. Sathiya Moorthi, K. Chinnakali, S. Nanjundan, R. Radhika, Hoong-Kun Fun and Xiao-Lan Yu “1-(4-Hydroxyphenyl)-3-(4-methoxyphenyl)-prop-2-en-1-one” Acta Cryst. (2005). E61, o480 - o482.

**Books / Book Chapters:** Nil

**Awards:** Nil

## **Startup: Nil**

### **Webinar:**

1. Attended the National Webinar on “Expert Lecture on Semiconductor Devices and their Applications” organised by Department of Physics, SRM Valliammai Engineering College, Chennai on 18.12.20.
2. Attended the National Webinar on “Nanomaterials and their applications” organised by Department of Chemistry, School of Basic sciences, BIHER on 30.11.22.

### **Resource Person:**

1. Presented a talk on “One Day National Level Internship Program to Explore New Research Insights” on 24.8.23 at Sri Sairam Engineering college, Chennai.

### **Online Courses:**

1. Obtained course certificate from UC Davis on “Materials Science: 10 Things Every Engineer Should Know” from Coursera on 27.6.2020.
2. Obtained course certificate from University of Virginia on “How Things Work: An Introduction to Physics” from Coursera on 20.6.2020.
3. Obtained course certificate from Pohang University of Science and Technology on “Ferrous Technology I” from Coursera on 28.6.2020.
4. Obtained course certificate from University of Manchester on “Introduction to Molecular Spectroscopy” from Coursera on 7.4.2020.
5. Obtained course certificate from Ecole Polytechnique on “Plastic electronics” from Coursera on 14.6.2020.
6. Obtained course certificate from University of Colorado on “Quantum Mechanics” from Coursera on 20.6.2020.
7. Obtained course certificate from Pohang University of Science and Technology on “Ferrous Technology II” from Coursera on 28.6.2020.
8. Obtained course certificate from KAIST on “Electrodynamics: An Introduction” from Coursera on 12.5.2020.
9. Obtained course certificate from Technical University of Denmark on “Organic Solar Cells - Theory and Practice” from Coursera on 10.5.2020.
10. Obtained course certificate from Udemy on "Python for Data science and Machine Learning Boot Camp" on 14.11.2019.
11. Obtained course certification from NITTR on " Module 1: Orientation towards Technical Education and Curriculum Aspects".
12. Obtained course certification from NITTR on " Module 2: Professional Ethics and Sustainability".
13. Obtained course certification from NITTR on " Module 3: Communication skills, Modes and Knowledge Dissemination".
14. Obtained course certification from NITTR on " Module 4: Instructional Planning and Delivery".
15. Obtained course certification from NITTR on " Module 5: Technology Enabled Learning and Life-Long Self Learning".
16. Obtained course certification from NITTR on " Module 6: Student Assessment and Evaluation".
17. Obtained course certification from NITTR on " Module 7: Creative Problem Solving, innovation and Meaningful R & D".

18. Obtained course certification from NITTR on " Module 8: Institutional Management and Administrative Procedures".
19. Obtained course certification from NPTEL on " Physics of Materials".
20. Obtained course certification from NPTEL on " Fundamentals of Electronic Materials and Devices".
21. Obtained course certification from NPTEL on " Fundamentals of Electronic Device Fabrication".