

Profile

Name : Mr. S. Ramamoorthy

Department : Physics

Designation : Assistant Professor

Qualification : M.Sc., M.Phil., DCA., (Ph.D).,

Phone : 9042356235, 8608121581

Experience : 10 yrs 8 Mo

AreaofSpecialization(s) : Electrode Material Fabrication, Supercapacitor & Battery

Email(OfficialID) : sramamoorthy@viaasrtt.ac.in



S. No.	ID	Link
1	Vidwan	https://vidwan.inflibnet.ac.in/profile/211493
2	Orcid	https://orcid.org/my-orcid?orcid=0000-0003-1961-0717
3	Scopus	https://www.scopus.com/authid/detail.uri?authorId=57310692400
4	GoogleScholar	https://scholar.google.com/citations?user=DjilZ7oAAAAJ&hl=en
5	Microsoft AcademicSearch	https://researchforum.microsoft.com/102225639
6	ResearchID	https://researchid.co/josen87
7	WebofScience	https://www.webofscience.com/wos/author/record/AFQ-9007-2022

Academic Qualifications:

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Physics	VelTech (Deemed to be University), Chennai-62, Tamilnadu, India	~ 2025
M.Phil.	Physics	St.Joseph's College, Trichirappalli. Tamilnadu, India.	2012
PG	Physics	AVVM. Sri Pushpam College, Thanjavur. Tamilnadu,	2010
UG	Physics	Sir Theagaraya College, Chennai, Tamil Nadu, India	2008

Additional Qualifications:

Diploma / Vocational / Certification	Area of Specialization	Institution/ University/ Agency. Name	Year
Diploma	Computer Application (DCA)	NSDC & Jeyam Educational Trust, Perambalur	2020

Projects:

Project Title	Agency	Amount	Duration
Preparation and Characterisation of Caffeine Derivative co-crystals for Pharmaceutical Application	Tamilnadu State Council of Science and Technology - Student Project Scheme (TNSCST-SPS-PS -026)	7500/-	2019-2020
Green Synthesis and Electrochemical Investigation of Cobalt Tungstate nanoparticles for energy storage applications	Tamilnadu State Council of Science and Technology - Student Project Scheme (TNSCST-SPS-PS-571)	7500/-	2022-2023

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
M.Sc Physics (Students)	18	2

Research Publications (Indexed)

- Ramamoorthy, S.,** D.SenthilKumar, Efficient synthesis and electrochemical profiling of nickel tungstate for supercapacitor application, **Chemical Physics Impact**, Volume 9, December **2024**, 100680. (**IF:3.8**)
- Ramamoorthy, S.,** Surendhiran, S., Senthilkumar, D., Murugesan, G., Kalaiselvi, S., Kavisree, S., Muthulingam, S., Murugesan, S., Evaluation of photocatalytic and corrosion properties of green synthesized zinc oxide nanoparticles, in **Journal of Materials Science: Materials in Electronics**, 33, 9722–9731 (**2022**) (**IF2.4**)

3. SELVAM. A, **Ramamoorthy. S**, BRINDHA. S, ISWARYA. S, MURUGESAN. S and ANGEL. M, Synthesis, Growth And Characterisation Of Urea Hexa Fluorosilicic Acid Single Crystal, "**Journal of Engineering Sciences**", Vol 11, Issue 3, March **2020**.
4. A. SELVAM, **S. Ramamoorthy**, G. VIMALA S. MURUGESAN R. MANIMAALA, Preparation And Characterization Of Praseodymium And Holmium Oxide Doped Borate Glass, "**International Journal of Research and Analytical Reviews (IJRAR)**" Volume 6, Issue 2 June **2019**.
5. **S. Ramamoorthy**, M. Angel, M. Manimaran, N. Tamilgandhi, S. Sundaravadivel, R. Anjugam, S. Murugesan, Synthesis, Growth, Structural, Optical and Electrical Properties of Di-Glycine Sulfate Monohydrate Single Crystals, "**International Journal of Advanced Science and Engineering**" Vol.5 No.3 1040-1044, **2019**.
6. **S. Ramamoorthy**, S. Sundaravadivel, E. Tamilselvi, C. Kumar, K. Sureshkumar, A. Thangavel and M. Angel, Growth, High Resolution X-Ray Diffraction, Z-Scan, Laser Damage Threshold, Etching of Maleic Acid Single Crystals by Slow Evaporation Method, "**International Journal of Advanced Science and Engineering**" Vol.5 No.3 998-1002, **2019**.
7. **S. Ramamoorthy**, M. Angel, S. Sundaravadivel Indhira. N. Umamaheswari, E. Tamilselvi, Synthesis, Growth, Structural, Optical, Electrical, Photoconductivity and Z-Scan Measurement of Glycinium Oxalate Single Crystals, "**International Journal of Advanced Science and Engineering (IJRAR)**" Volume 6, Issue 1, February **2019**.
8. **S. Ramamoorthy**, S. Sundaravadivel and A. Ragesh, Synthesis, Growth, Structural, Optical, Electrical, Photoconductivity, Z-Scan Measurement Of DMAP Single Crystals, "**Journal of Emerging Technologies and Innovative Research (JETIR)**", Volume 6, Issue 2, February **2019**.

Books/ Reports/ Chapters/ General Articles etc.

S.No	Title	Author'sName	Publisher	Year of Publication
1	Practical Physics (ISBN: 9789391699642)	S. Ramamoorthy S.Murugesan	Today's Publication	2023

Reviewer/ Members in:

1. **Reviewer** in Journal of Material Science : Materials in Electronics - Springer IF2.8

2. **Reviewer** in Advances in Science, Technology and Engineering Systems Journal, (AJR09523)
3. **Reviewer** in The International Journal of Scientific Development and Research- IJSDR (112205)
4. **Reviewer** in World Wide Journal (PIJR_REV280)
5. **Reviewer** in Journal of Emerging Technologies and Innovative Research 2022 (117092)
6. **Professional Member**-The International Academy of Science and Engineering for Development (IASED) (51050410)
7. **Member Society of Japan**-International Journal of Development and Sustainability (IJDS)
8. **Professional Member**- All India Council Technical Skill Development (AICTSD/PROFESSOR/65572)
9. **Approved Member**-Einstein Research Academy (ERA) ERA M0021356
10. **Member**- Institute For Engineering Research and Publication (IFERP)

Awards/ Others:

1. **Best Oral Presentation**, Virtual International Conference on Multidisciplinary Aspects in chemistry (ICMAC) on 20 – 21 January **2022**, Sree Ramakrishna College of Arts and Science, Coimbatore.
2. **Best Oral Presentation**, National Conference on Functional Materials and Its Applications Aspects (NCFMAA-2022) on 11th - 12th August **2022**, Saveetha Institute of Medical & Technical Sciences, Chennai.
3. **Best Teacher Award**, (Higher Education), Institute of Scholars, Karnataka.

Presentations in Conference

1. **Green Synthesis, Electrochemical Characterisation of bismuth tungstate nanoparticles for supercapacitor application** International E Conference on Nanoscience and Nanotechnology for Energy, environment and Biomedical applications organized by Vinayaka Missions Kirupananda Variyar arts and science College 24th – 25th November **2022**.
2. **Green Synthesis, Electrochemical Characterisation of Cobalt tungstate nanoparticles for supercapacitor application** in National Conference on Functional Materials and Its Application Aspects organized by Department of Physics Institute of Science and Humanities, SIMATS on 11 – 12th August **2022**.
3. **Biogenic synthesis of carbon quantum dots using carlic peel extract for fluorescence applications** in the Virtual International Conference on multidisciplinary Aspects in chemistry (ICMAC) on organized by Sree Ramakrishna College of Arts and Science, Coimbatore 20–21 January **2022**,
4. **Green Synthesis, Characterisation and photocatalytic activity of zinc oxide nanoparticles from the leaf extract of A. Indica** in the International e-Conference on recent trends in Nanotechnology and Material science organized by St Joseph's college for women, Alappuzha, kerala held on 18-20 Jan **2021**.
5. **Synthesis, Growth of Characterisation Glycine Thiourea Single Crystals** in the

National Seminar on Recent Trends in Advanced Materials Organised by Vivekananda Arts and Science College, Sankari, held on 12th February **2020**.

6. **Synthesis, Growth Structural, Optical, Electrical, Photoconductivity, Z-Scan measurement of DMAP Single Crystals** By Slow in the National Conference on Recent Advances in physics organized by PGP college of Arts and Science, Namakkal held on 20th September **2019**.
7. **Growth and Third Harmonic Generation, Laser Damage Threshold, HRXRD Studies Of Glycinium Picrate Single Crystals** in the two days National Seminar on Innovations at Frontier Areas of Physical Sciences Organised by Vivekananda Arts and Science College for Women, Sankari, Salem, held on 13th & 14th February **2019**.
8. **Synthesis, Growth And Characterisation Of Glycine Oxalate Single Crystals** By Slow in the International Conference on Youth Leadership with Technological Improvements for Sustainable Development organized by Vivekananda Arts and Science College, Sankari, held on 9th and 10th January **2019**.
9. **Growth and characterisation of Glycine Succinic Acid Single Crystals** by slow evaporation method organized by NKR college, Namakkal held on 20th September **2017**.
10. **Synthesis, Growth and Characterisation of Glycinium Picrate Single Crystals** in International Conference conducted by VIT University, Vellore, held on 14th to 16th December **2016**.
11. **An Unidirectional Growth of Tri-Glycine Sulphate Single Crystals** by SR method” organized by KSR College of technology **2012**.
12. **Growth and characterization of Zinc-Thiourea Sulphate single crystals**” organized by KSR College of Technology **2012**.

Participations in Conference

1. National level seminar on Crystal Growth conducted by SSN College of Engineering, Chennai held on 24th to 26th March **2013**.
2. Rev Dr. Lazur –SJ Endowment One Day Awareness Program on **“e-Resources”** 7th March 2012 at St. Joseph’s College Trichy.
3. Research Day on **“Pursing Socially Relevant research – Possibilities and Concerns”** on 28th Jan 2012 at St. Joseph’s College Trichy.
4. UGC Sponsored National Seminar on **“Recent trends in Crystal Growth & Nano Materials”** 15-17 March 2012 National College, Trichy.
5. NITT-OSA & NITT-SPIE student chapters conducted on **“Advances in Opto-Electronics”** 26th Aug 2011 NIT, Trichy.
6. State level student’s seminar on **“Expanding Universe”** 1st October 2009 at thigarajar College, Madurai.
7. State level seminar on **“Recent advances in physics research”** 27th Aug 2009 AVVM Sri Pushpam College, Thanjavur.
8. National level seminar **Recent Advances in Chemical Sciences** at Sona College of Technology

9. International Conference on Nanoscience and Nanotechnology at SRM University, Kattankulathur on 27-29th March 2023.
- 10.

Participation in Workshop

1. BRNS Sponsored “**Workshop on Electron Microscopy**” on 4-5 Nov 2011 NIT Trichy.
2. Workshop on “**Preparation, Characterization of Crystalline Materials and their applications**” in 16-17th July 2012 by Anna University, Chennai.
3. National Workshop on “**Advanced Instruments for Characterization**” sponsored by DST-PURSE March 27th 2012 at Bharathiyar University, Coimbatore.
4. International Workshop on Energy Materials and Modelling for Future Technologies at KPR Institute of Engineering and Technology on 27th November 2023.
5. Workshop on Engineering of Nanomaterials organized by Periyar University, Salem on 03rd March 2023.
6. International (Indo-Poland) Workshop on Functional Materials for Sensor and Energy Applications organized by Alagappa University, Karaikudi on 10 – 11th November 2022.
7. National Workshop on Electrochemical Techniques and Their Applications organized by PSGR Krishnammal Collge for Women, Coimbatore on 18th – 19th November 2022.

Participation in Faculty Development Programme

1. **Faculty Development Program entitled on “Interactive Techniques for Developing Oral Fluency in english”** organised by Vivekanandha educational Institutions, Tiruchengode held on 15th December 2018.
2. **Faculty Training Program entitled on “Physics”** organised by Periyar University held on 15th & 16th November 2018.
3. **Faculty Development Program entitled on “Global Business Foundation skills”** organised by Infosys BPM Limited, Chennai held on 22nd May to 30th May, 2018.
4. **Faculty Development Program entitled on “Quality Teaching”** organised by Vivekanandha College for Women, Tiruchengode held on 13th November 2017.
5. **Faculty Development Program** at Francis Xavier College of Engineering, Tirunelveli organized by Ministry of Education on 24th January 2024.
6. **Faculty Development Program** Nanomaterials for Novel Applications organised by Department of Physics, Ramco Institute of Technology, Rajapalayam on 13th Jan 2023.
7. **International Faculty Development Program** on Recent Research Materials Physics organized by Department of Physics, Rajapalayam Raju’s college Madurai on 14th – 18th November 2022.
8. **International FDP** on Advanced Functional Materials – Energy Environment and Sustainable Development organized by SRM TRP Engineering College, Tiruchirapalli on 28th – 09th March 2023.

Conference/ Seminar/ Workshop/ Guest Lecture Organized

1. International Conference on Futuristic and Sustainable Materials in Energy and Environmental Technologies (FSMEET -2024) on 15.02.2024 at Vivekanandha Arts and Science college for women, Sankagiri, Salem, Tamilnadu – 637303, India keynote talk

was delivered by Dr.TheerthagiriJayaraman Research Professor, Gyeongsang National University, South Korea and Dr.SoorathepKheawhom Associate Professor, Chulalongkorn University, Bangkok.

2. National Conference on Futuristic and Sustainable Energy Materials (FASEM-2k23) on 23.03.2023 at Vivekanandha Arts and Science college for women, Sankagiri, Salem, Tamilnadu – 637303, India keynote talk delivered by Dr. M. SATHISH, Principal Scientist, Electrochemical Power Sources Division, Council of Scientific and Industrial Research- Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi and Dr. MANI KARTHICK, Project Scientist – E, Centre for Solar Energy Materials (CSEM), International Advanced Research Centre for Powder Metallurgy and new Materials (ARCI), Department of Science and Technology. (DST), Balapur, Hyderabad.
3. One Day National Seminar on Recent Trends in Advanced Materials (RETAM-2020) on 12.02.2020 at Vivekanandha Arts and Science college for women, Sankagiri, Salem, Tamilnadu – 637303, India.
4. National Level Seminar on Modern Trends in Material Science (MTMS-2018) on 15.02.2018 at Vivekanandha Arts and Science college for women, Sankagiri, Salem, Tamilnadu – 637303, India.
5. A Guest Lecture was organized on “Designing Electrodes for Sustainable Applications” on 08.08.2024 at VIAAS delivered by Dr. Priyadharshini Matheswaran M.Sc., Ph.D., SSI Faculty, Institute de Research Dupuy de Lome, Universite Bretagne Sud, Lorient (56100), France.
6. A Guest Lecture was organized on “Protecting the Scientific Findings” on 01.03.2024 at VIAAS delivered by Mr.R.Arunkumar. Assistant Professor SG-I, Department of Mechanical Engineering, RAMCO Institute of Technology, Madurai.
7. A Guest Lecture was organized on “Trends in Energy Storage Devices” held on 19.10.2023 at VIAAS delivered by Dr.P.Sakthivel. Professor, Department of Nano Science and Technology, Bharathiyar University, Coimbatore.
8. A Guest Lecture was organized On “Nuclear Energy for Sustainable Future” held on 27.02.2023 at VIAAS delivered by Dr. D. KHANNA, Assistant Professor, Department of Applied Physics Karunya Institute of Technology and Sciences, Coimbatore.
9. A Guest Lecture was organized on “Growth of High Quality Crystals by Optical Floating Technique” held on 25.08.2022 at VIAAS delivered by Dr. G. MURUGESAN, Assistant Professor, Department of Physics, VelTech Rangaraja Dr. Sagunthala R&D Institute of Science & Technology, Avadi, Chennai, Tamil Nadu, India.
10. A Guest Lecture was organized on “Growth of High Quality Crystals by Optical Floating Technique” held on 25.08.2022 at VIAAS delivered by Dr. D. SENTHILKUMAR, Head, Associate Professor, Department of Physics, VelTech Rangaraja Dr. Sagunthala R&D Institute of Science & Technology, Avadi, Chennai, Tamil Nadu, India.
11. A Guest Lecture was organized on “Growth of High Quality Crystals by Optical Floating Technique” held on 25.08.2022 at VIAAS delivered by Dr. D. SENTHILKUMAR,

Head,Associate Professor, Department of Physics, VelTech Rangaraja Dr. Sagunthala R&D Institute of Science & Technology, Avadi, Chennai, Tamil Nadu, India.

12. A Guest Lecture was organized on “Fundamentals and Applications of Nuclear Physics ” held on 12.09.2018 at VIAAS delivered by Dr. P.Parameswaran,Head,XRDSES, Physical Metallurgy Division, IGCAR, Kalpakkam, Chennai.
13. A Guest Lecture was organized on “Growth of High Quality Crystals by Optical Floating Technique” held on 25.02.2013 at Sri Lakshmi College, Kallakkurichi, Villupuram delivered by Dr. D. SENTHILKUMAR, Head,Associate Professor, Department of Physics, VelTech Rangaraja Dr. Sagunthala R&D Institute of Science & Technology, Avadi, Chennai, Tamil Nadu, India.