

Aditanar College of Arts and Science
Virapandianpatnam – 628216
Tiruchendur
Bio- Data



Name of the Department	:PHYSICS
Name of the faculty member	:Dr.R. SREE DEVI
Qualification	:M.Sc.,M.Phil.,Ph.D.,
Present Designation	:Associate Professor
Vidwan id	:419625
Residential Address	:157/25,Dhanalakshmi Nagar, Kumarapuram,Tiruchendur
Contact No.	:9443657732
Email	:vsreedevi70@gmail.com
Gender	:Female
Community	:BC
Date of Birth and Age	:02.05.1970 ,54 yrs
Date of joining	:16.06.2008
Date of Retirement	:31.05.2030

I. Particulars of Educational Qualification

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	1990	Sarah Tucker College, Tirunelveli	Madurai Kamaraj University	81 %	I
PG	M.Sc	Physics	1992	Sarah Tucker College, Tirunelveli	Manonmaniam Sundaranar University	72.3 %	I
B.Ed	B.Ed	Physical Sciences	1993		Madurai Kamaraj University	61%	I
M. Phil	M.Phil	Crystal Growth	2005	----	Manonmaniam Sundaranar University	53.2 %	II
Ph.D.	Ph.D	Crystal Growth	2018	----	Manonmaniam Sundaranar University	---	----

II. Additional Qualification : -----
NET/SLET

III. Title of Ph.D. Thesis : Growth, Characterization and Quantum Chemical Investigations of some Guanidinium based nonlinear optical crystals

IV. Faculty/Discipline/Subject in which Ph.D. was awarded : **Physics**

List of Publications : Attached

No. of Candidates Completed Ph.D. under your Guidance : ---

No. of candidates doing Ph.D. under your Guidance : ---

V. Academic Experience:

Name of the College	Whether Govt/Aided/S.F.	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Sri Sarada College for Women, Tirunelveli	S.F	Lecturer	05.07.1993	17.06.2002	8	11	12
Rose Mary College of Arts & Science, Tirunelveli	S.F	Lecturer	16.06.2003	13.03.2007	3	8	27
Aditanar College of Arts & Science	Aided	Assistant Professor	16.6.2008	Till Date	16	10	6
Total					29	6	15

VI Administrative/other Experience : Attached

VII Other Relevant Information : Book published - 2
Paper published - 13
Paper presented - 14

Research Papers Published in the Journals:

Sl. NO	Title of Paper	Name of the Journal	Volume,Page.no& Year	ISSN Number
1.	Growth and Characterization of N,N'-Dimethylurea Admixture Sulphamic acid Single Crystals', Asian Journal of Chemistry	Asian Journal of Chemistry	vol.27, Issue.no.7, pp. 2642-2646, 2015	ISSN: 0970-7077
2	Investigations on growth and characterization of glycine admixture sodium molybdate crystals for nonlinear optical applications	Optik	vol.127, pp. 1708-1713, 2016	ISSN: 0030-4026
3	Growth and characterization of D-alanine alaninium bromide crystals	Optik	vol.127, pp. 3597-3601, 2016	ISSN: 0030-4026
4	Growth and Characterization of BIS L-alanine Strontium Nitrate Single Crystals	IOSR-Journal of Applied Physics	Vol.8, pp.61-68, 2016	ISSN: 2278-8719
5	Growth, Structural, Optical, Mechanical and Quantum Chemical analysis of unidirectional grown bis (guanidinium) 5-sulfosalicylate (BGSSA) single crystal	Physica B: Condensed Matter	Vol. 531, pp.21-29, 2018	ISSN:0921-4526
6	Growth, Optical, Mechanical and Electrical Properties of Zinc Sulphate Admixture N-N' – dimethylurea Single Crystals (DMUZS)	Research and Reviews: Journal of Physics,	Vol.7, Issue 1, pp. 24-33, 2018	ISSN: 2347-9973
7	Imidazole Added Sulphamic Acid single crystals with optimal properties for optoelectronic devices	Materials Today: Proceedings	Vol. 49, pp. 2276-2282, 2022	ISSN:2214-7853

8	Investigation of Nucleation Parameters and third order nonlinear optical properties of triglycine sodium molybdate single crystals	Semiconductor Physics, Quantum Electronics & Optoelectronics	Vol.26, pp. 450-456, 2023	ISSN: 1560-8034
9	Growth, Characterization and Chemical Computation of Guanidinium Trichloroacetate (GTCA) Single Crystal – DFT Approach	Bulletin of Chemical Society of Ethiopia	Vol. 37(4), pp. 1033-1046 , 2023	ISSN: 1011-3924
10	Structural, Growth and Optical Characterization of Guanidinium Sulphanilate (GSA) Single Crystal	Physics and Chemistry of Solid State	Vol. 25, pp. 278-283, 2024	ISSN: 1729-4428
11	Mild Shock Waves and enhanced optical characteristics of sulphamic acid single crystals doped with pyridine-2-carboxylic acid	Journal of Material Sciences: Materials in Electronics , (Springer).	Pp. 1-10, 2024	ISSN: 0957-4522
12	Growth, Structural, Optical, Thermal and Mechanical Studies of a Novel Nickel Sulphate Admixed Sulphamic Acid Single Crystals for Optical Applications	Springer Proceedings in Physics – 265 (Book Chapter 14)	pp. 135-154, 2021	Book Chapter 14
13	Photocatalytic and Antimicrobial Applications of Cerium(IV) doped Copper Manganese Oxide Nanoparticles (Accepted)	Water, Soil and Air Pollution.	23rd April ,2025	ISSN: 0049-6979

Research Papers Presented in International/National Conferences:

1. 'Bio- Inspired MnO₂ Nanoparticles: An Approach for Energy Storage, Biological and Environmental Sustainability', **R. Sree Devi, International Conference** on Recent Developments on Emerging Materials (REMPH'25), (1st of April 2025) held at Rani Anna Government Arts College for Women, Tirunelveli.
2. 'The effects of Acoustic Shock pulses on the Structural, Optical and Morphological properties of Sulphamic acid based single crystal', **R.Sree Devi, International Conference** on Advancements in Theoretical, Experimental and Observational Physics (ATEOP'25), (11th March 2025) held at the Madura College, Madurai.
3. 'Artificial Intelligence Application in Physics: An Explorative Study', **R.Sree Devi, International Seminar** on "Reimaging Higher Education in the Artificial Intelligence Era", (1st of March 2025) held at St. Ignatius College of Education (Autonomous) Palayamkottai.
4. 'Growth, Structural and Optical studies of DMULS single Crystal', **R.Sree Devi, International Conference** on Technologically important materials for device fabrication, (1st of September 2023), held at Aditanar College of Arts and Science, Tiruchendur.
5. 'Structural and Thermal analysis of Guanidinium Sulphanilate (GSA) single crystal with DFT approach', **R.Sree Devi, International Conference** on Technologically Advanced Materials(ISTAM),(29th September 2018),held at Muslim Arts College,Thiruvithancode.
6. 'Growth, Optical and Quantum Chemical analysis of unidirectional grown Bis (guanidinium) 5 – sulfosalicylate (BGSSA) single crystal', **R.Sree Devi, International Conference** on Recent Advancements in Information Technology, Science & Engineering, (14 and 15th of December 2017) held at A.P.C. Mahalakshmi College for Women, Tuticorin.
7. 'Experimental and Theoretical Investigations on Optical Properties of Guanidium based Organic Crystals', **R.Sree Devi, International Conference** on Materials, Emerging- Devices and Energy-Efficient Technologies, (5th and 6th of October 2017) held at St. Xavier's Catholic College of Engineering Nagercoil.
8. 'Investigation on nucleation parameters and third order nonlinear optical properties of Tri-glycine Sodium molybdate Single Crystals', **R.Sree Devi, International Workshop** on Advanced Functional Materials and Devices (8th to 12th January 2017) held at Manonmaniam Sundaranar University, Tirunelveli.
9. 'Investigation on Growth and Characterization of N-N' – Dimethyl Urea admixture Lithium Sulphate Single Crystal', **R.Sree Devi, International Conference** on Functional Materials, (7th to 10th of September 2016) held at PSN College of Engineering and Technology, Tirunelveli.
10. 'Investigations on the Electrochemical performance and Antibacterial Activity of Biogenic Fe₂O₃ nanoparticles', **R.Sree Devi, A National Conference** on "Innovative Trends in Metal Based Therapeutics and Biosensors (ITMTP-2025) (17th February 2025) held at Aditanar College of Arts and Science, Tiruchendur.

11. 'Structural, Optical and DFT computations of centro symmetric nonlinear Optical Quinidinium Sulphanilate (GSA) Single Crystal', **R.Sree Devi, National Conference** on Recent Trends in Physics of Materials (NCRTPM), (9th and 10th of February 2018) held at Pachiyappa's College, Chennai.
12. 'Growth and Characterization of N,N'- Dimethylurea Admixed Sulphamic Acid Single Crystals', **R.Sree Devi, National Conference** on Advanced Materials, (27th February 2016) held at Nanjil Catholic College of Arts and Science, Kaliyakavilai.
13. 'Growth Characterization of Tri Glycine Barium Chloride (TGBC) Single Crystals'', **R.Sree Devi, National Seminar** on Advances in Materials Science, (23rd and 24th January 2012) held at Manonmaniam Sundaranar University, Tirunelveli.
14. 'Growth and Characterization of Pure and L-Phenylalanine Doped Tri Glycine Sulphate (TGS) Single Crystals', **R.Sree Devi, National Seminar** on Advances in Physics, (10th and 11th March 2011) held at Manonmaniam Sundaranar University, Tirunelveli.

ADMINISTRATIVE / OTHER EXPERIENCE:

Sl No.	Responsibility/Position	Organization/Committee
1	Co-ordinator	NAAC
2	Assistant Co-ordinator	IQAC
3	IIC member and Innovation Activity Co-ordinator	Institutions Innovation Council (IIC)
4	Co-ordinator	Value Education Forum
5	Co-ordinator	Women's Study Centre
6	Co-ordinator	Science Exhibition
7	Co-ordinator	Advisor's committee
8	Convener in Editorial Board	College Magazine Committee

9	Convener	Science Exhibition
10	Convener	College Day Entertainment Committee
11	Convener	College Convocation Day Meeting Committee
12	Convener	Youth Festival
13	In-charge of CRITERIA-1	IQAC
14	In-charge	Physics Department-Internal Examination
15	In-Charge	Scholarship
16	Member in Editorial Board	College Magazine Committee
17	Member in Editorial Board	News Letter
18	Member	Sivanthi Community Radio
19	Member	Women's Grievences Cell
20	Member	College Day Meeting Committee
21	Member	College Day Decoration Committee
22	Member	College Convocation Day Reception Committee
23	Member	.College Convocation Day Registration Committee

24	Member	College Convocation Day Meeting Committee
25	Member	College Day Reception Committee
26	Member	General Knowledge Cell
27	Member	Entrepreneurial Development Cell
28	Special Invitee in the Advisory Committee in the DST project - " Science for Women's Health and Nutrition"	Sivanthi Community Radio
29	Script vetting Expert in the DST project" Science for Women's Health and Nutrition"	Sivanthi Community Radio