

RESUME



Name: Dr. R.Mary Jenila
Designation: Assistant Professor
Department: Physics
Address : 21 –C, Puthupettai South Street,
Palayamkottai, Tirunelveli -627002

PERSONAL DETAILS

Date of Birth : 08/06/1976
Qualification : MSc.,M.Phil.,B.Ed.,Ph.D., SET.
Designation : Assistant Professor
Department : Physics
Community : BC
Religion : RC Christian
Nationality : Indian
Mobile : 8903672129
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ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
SET	-	-	Mother Theresa University	2016
Ph.D	Crystal Growth	-	Manonmaniam Sundaranar University	2015
M.Phil	-	Scott Christian College, Nagerkovil	Manonmaniam Sundaranar University	2003
M.Sc	-	VHNSN College, Virudunagar	Madurai Kamaraj University	2000
B.Sc	-	Annai Velankanni College, Tholayavattam	Manonmaniam Sundaranar University	1997

ACADEMIC IDENTITY

*VIDWAN ID	287339
*ORCID ID	https://orcid.org/0000-0002-3681-1580
*SCOPUS ID	Jenila, R. Mary
*RESEARCHER ID/ PUBLONS ID	ADW-3316-2022
GOOGLE SCHOLAR LINK	https://scholar.google.com/citations?user=rJtLA4AAAAAJ&hl=en

TEACHING EXPERIENCE

Date of Appointment	01/12/2007
Date of Retirement	
Teaching Experience	UG -15 years
	PG 14 years 8 months
	M.Phil. - Nil
Research	Guided M Phil: Guided Ph D: Guiding Ph Scholar: 4

COURSES/CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
B.Sc. Physics	Sri Paramakalyani college, Alwarkurichi	01/07/2007	31/11/2007	6 months
M.Sc & B.Sc Physics	St.Xavier's College(Autonomous), Palayamkottai	01/12/2007	Till Date	14 Years 8 months

AWARDS RECEIVED	
1.	Best Research Paper Award
2.	
3.	
4.	
5.	

ADMINISTRATIVE EXPERIENCE			
S. No	DESIGNATION	INSTITUTIONS	YEAR
1.	Coordinator (Shift II)	St.Xavier's College(Autonomous) Palayamkottai	2009 - 2015
2.	Vice Principal (Shift II)	St.Xavier's College(Autonomous) Palayamkottai	2015 - 2018
3.	Coordinator (Shift II)	St.Xavier's College(Autonomous), Palayamkottai	2019 -

MEMBERSHIP		
S. No	Designation	Particulars
1.		
2.		
3.		
4.		
5.		

**ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT
PROGRAMME UNDERGONE ()**

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation programme for teachers	IQAC	St.Xavier's College, Palayamkottai June 15, 2012
2	Orientation programme for teachers	IQAC	St.Xavier's College, Palayamkottai Aug. 8&19, 2012
3	Faculty workshop on Competence Building	IQAC	St.Xavier's College, Palayamkottai March 15&16, 2013.
4	Orientation programme for Teachers	IQAC	St.Xavier's College, Palayamkottai Jan. 21, 2014
5	Ongoing Faculty development training programme	St.Joseph college and Jesuit Higher Education Comission	ST. Joseph's College, Tiruchirapalli May 13 – 21, 2014.
6	Orientation programme on Innovative Teaching strategies for student-centered education	IQAC	St.Xavier's College, Palayamkottai July 5, 2014.
7	Orientation Programme for Teachers on Class Room Management and Teaching skills	IQAC	St.Xavier's College, Palayamkottai Aug.21 2014.
8	Workshop on e -content	IQAC	St.Xavier's College, Palayamkottai Nov 22-24, 2015
9	Orientation programme for teachers on Millenium Psychology	IQAC	St.Xavier's College, Palayamkottai June 14&15, 2016
10	State level workshop on campus ministry : retreat and spiritual activites,	IQAC	St.Xavier's College, Palayamkottai April 29&30, 2016
11	Orientation programme for teachers on Councelling and Mentoring	IQAC	St.Xavier's College, Palayamkottai June 19&20, 2017.
12	Work shop on NAAC Reforms: outcome based Education – An Overview	IQAC	V.O.Chidambaram College, Tuticorin Dec 14&15, 2018
13	Faculty Development Programme on “Advanced Materials and their Applications”	PG & Research Department of Chemistry	Auxilium College, Vellore June 2 -6,2020
14	Two week Faculty	Department of	Vimal Jyothi Engineering

	development programme on nano composites and nano materials	Mechanical Engineering	college, Kanoor, Kerala June 8 -20, 2020
15	Faculty Development programme on Statistical Mechanics	Ministry of Science and Technology	PSGR Krishnammal college for women May 25-29 ,2020
16	Faculty Development Programme on Project proposals for funding Agencies	Patrician College Research Committee	Patrician College of Arts and Science, Chennai May 16 -17, 2020
17	Orientation Programme for Teachers	IQAC	St.Xavier's College, Palayamkottai July 16-17,2022
18.	FDP on Materials: Recent Trends on Engineering Applications		Gokaraju Rangaraju Institute of Technology June 02-07,2020
19	FDP on Project Proposals for Funding Agencies- Preparation and Submission Protocols		Patrician college of Arts and Science, Chennai May 16 -17, 2020
20	FDP on Effective and Quality Research Writing	Dept. of Commerce	Patrician college of Arts and Science, Chennai June 07-13, 2020
21	Current trends in condensed matter physics 25 - 29/09/2020	TEQIP -III	Dr.B.R.Ambedkar National Institute of technology, Jalandhar, Punjab September 25 – 29, 2020
22.	4 Weeks Induction/ Orientation Programme for Faculties	Minister of Education, Teaching Learning Centre	University of Delhi, Ramanujam College, Delhi June 20 – July 19, 2022

DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
Ph.D	Physicochemical Characterisation of Alkali Metal Impurities added Ammonium Fluoro Antimonate Single Crystal re	Manonmaniam Sundaranar University, Tirunelveli
M.Phil	Electrical conductivity studies of Zinc Thiourea Sulphate Crystals	Scott Christian College, Nagerkovil

AREAS OF RESEARCH
Crystal Growth and Characterisation
Materials Science
Green Synthesis Method
Nano materials for Energy storage devices
Magnetic nano materials

RESEARCH PROJECTS CARRIED OUT			
S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration
1.	Synthesis and Characterisation of Mo decorated NiCoSe ₂ nano composites for energy storage devices	Tamil Nadu State Council for Science and Technology, Chennai	6 Months

PUBLICATIONS				
BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
1		6	6	5
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	
6	2	21	29	

PUBLICATIONS: BOOKS ()			
S. No	Title of the Book	Publication	Year
1.	Physicochemical Characterisation of Alkali Metal Impurities added Ammonium Fluoro Antimonate Single Crystal	Royal Book Publishing , Coimbatore	2017; ISBN: 978-1-64008-268-7

PATENT PUBLISHED			
S. No	Title of the Patent	Date of Publication	Application Number
1	Nano material Based Thermal Indicator	11/03/2022	202211010905

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ORGANISED			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
.1	one day webinar on New generation of Space Telescopes – Opportunities Unlimited	Department of Physics,	St.Xavier’s College (Autonomous), Palayamkottai, 28 July 2021.
2	one day international webinar on Frontiersinnanotechnology and applications	Department of Physics,	St.Xavier’s College (Autonomous), Palayamkottai, 15 July 2020
3	International Conference on Emerging Materials and its Applications (ICEMA-2022)	Department of Physics,	St.Xavier’s College (Autonomous), Palayamkottai, 01March 2022

PUBLICATIONS: SCOPUS INDEXED JOURNALS () WEB OF SCIENCE ()			
S. No	Title of the Paper	Name of the Journal	ISSN No.,

			Volume, Issue, Impact factor & Pg. No
1.	Effect of organic manures on soil properties and the yield of black gram(vigna mungo L.)	Strad Research	Vol. 07(2020) pp70-79
2.	SPECTROSCOPIC INVESTIGATION OF SOIL TREATED WITH AND WITHOUT ORGANIC MANURES	Journal of Advanced Scientific Research	Vol.1(2021) pp287 -291 ISSN- 2395-5252
3.	Synthesis of Nickel Ferrite Nano Particles Using Azadirachta Indica Leaves Extract and Its Antimicrobial Potential against Human Pathogens	International Journal of Innovative Science, Engineering & Technology,	Vol. 08(2021) pp2348 – 7968 ISSN- 2348-7968
4.	Optical, structural and morphological analysis of rGO decorated CoSe ₂ nano composites	- International Journal of Innovative Science, Engineering & Technology	Vol.08(2021) pp180-192 ISSN- 2348-7968
5.	Mineralogical and morphological characterization of organically amended soil	Rasayan Journal of chemistry	Vol.14 (2021) Pp 2255 – 2262 ISSN- 0974-1496
6.	Antibacterial effect of NiSe ₂ nano particles using citrus limon leaves in green method	Journal of Xi'an Shiyou university, Natural science Edition	Vol. 17(2021) Pp 52 – 72 ISSN-1673-064X

PUBLICATIONS: UGC LISTED JOURNALS ()			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	Growth and comparison of physic chemical properties of pure, ca ²⁺ and Sr ²⁺ doped NH ₄ Sb ₃ F ₁₀ single crystals for electro optic applications	Optik	Vol.124, 2013,pp. 3618 – 3622; ISSN – 0030 - 4026
2.	Growth and Characterisation studies of Potassium L-Alanine NLO single crystal	International journal of Emerging Trends in Science and Technology	Vol. 01, No.10,2014, pp 1586 – 1593; ISSN – 2348 -9480
3.	Comparative Analysis of Growth and physicochemical properties of pure and	Journal of Material Science; Materials in Electronics	Vol.26,No.26,2015, ISSN 0957-4522

	impurities added NH_4SbF_4 single crystals: a novel electro optical material.		
4.	A study on the electrical, magnetic and optical limiting behaviour of Pure and Cd-Fe co-doped CuO NPs	Journal of Alloys and Compounds	878 (2021) ISSN- 0925-8388
5.	Improving superior characteristics of Glass using Graphene coated	International Journal of Scientific Research in Science, Engineering and Technology	UGC Journal No.47147 ISSN: 2395 - 1090

PUBLICATIONS: OTHER INDEXED JOURNALS ()

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor &Pg.No
1.	Growth and Characterisation of pure and Strontium added $(\text{NH}_4)_3\text{Sb}_2\text{F}_9$ single crystals	Archives of Applied Science Research	Vol. 4. No. 4 , 2012, ISSN-. 0975 -508X
2.	Influence of Mg on the mechanical properties of Ammonium Tetra Fluoro Antimonates	Scientia Acta Xaveriana	Vol. 3, No.1, 2012, ISSN- 0976 - 1152
3.	Growth and characterization of MgF_2 added $(\text{NH}_4)_2\text{SbF}_5$ single crystals	Scientia Acta Xaveriana	Vol. 3, No. 2, 2012, ISSN- 0976 - 1152
4.	XPRD and electrical measurements of NH_4SbF_4 single crystals	Scientia Acta Xaveriana	Vol. 07, No.01, 2016 , ISSN- 0976 - 1152
5.	Growth and Characterisation of L- Leucine adduct added with Sodium Fluoro Antimonate single crystals	Scientia Acta Xaveriana	Vol. 06, No. 02,2018, ISSN- 0976 - 1152
6.	SYNTHESIS OF NiO NANOPARTICLES USING THESPESIA POPULNEA LEAVES BY GREEN SYNTHESIS METHOD	International Journal of Research and Development	Vol. 04(2019) pp68 -74 ISSN -2349 -3585

AS A RESOURCE PERSON (26)

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	Resource person for the international science day celebrations	Wavoo Wajeeha women's college of Arts and Science, Kayalpattinam - 628204	29/02/2016

2.	Invited talk on ‘ Growth and characterisation of Organometallic crystals	Sadakathullah Appa College(Autonomous),Tirunelveli	19/03/2016
WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP			
PAPER PRESENTED: National () International ()			
S. No	Place	Title of the paper presented	Date
1.	PSN College of Engineering and Technology, Melathediyoor, Tirunelveli	Conductivity studies on doped Ammonium fluoro antimonates crystals	National Conference on Advanced Materials, Aug 27 -29, 2009
2.	PSN College of Engineering and Technology, Melathediyoor, Tirunelveli	Growth, Optical and dielectric studies on doped NH_4SbF_4 crystals	II National Conference on Advanced Materials, Aug 25-27, 2010
3.	St. Xavier’s College , Palayamkottai, Tirunelveli,	Growth and optical studies of $\text{NH}_4\text{Sb}_3\text{F}_{10}$ crystals	National Seminar on Advances in Smart Materials for Opto Electronics Applications, Jan 20 – 21, 2011
4.	Aditanar College of Arts and Science, Tiruchendur,	Growth and characterization of Ca doped $(\text{NH}_4)_3\text{Sb}_2\text{F}_9$ single crystals.	XVI National Seminar on Crystal Growth, Jan 19 -21, 2012
5.	Manonmaniam Sundaranar University, Tirunelveli	Growth and characterization of pure and Mg doped $(\text{NH}_4)_3\text{Sb}_2\text{F}_9$ single crystals	National Seminar on advances in materials science, Jan 23-24, 2012
6.	VIT University, Velore,Tamil Nadu	Comparative study of pure and Sr doped $(\text{NH}_4)_3\text{Sb}_2\text{F}_9$ single crystals.	International Conference on Recent Trends in Advanced Materials, Feb 20 -22, 2012
7.	Kalasalingam University, Sriviliputhur,Tamil Nadu	Growth and characterization of pure and Mg doped NH_4SbF_4 single crystals.	National Conference on technologically important crystalline and amorphous solids, Mar 2 -3, 2012,
8.	Noorul Islam University,	Growth and characterization of	National Conference on physics of new

	Kumarakovil, Tamil Nadu	pure and Sr doped NH_4SbF_4 single crystals.	materials, Apr 20 -21, 2012,
9.	St. Thomas College, Pala, Kottayam, Kerala	Growth and characterization of pure and Ca^{2+} doped NH_4SbF_4 single crystals.	International Conference on Materials Science and Technology, June 10 - 14, 2012
10.	Scott Christian College, Nagerkovil, Tamil Nadu	Growth, optical and microhardness studies of MgF_2 added $(\text{NH}_4)_2\text{SbF}_5$ single crystals.	National Seminar on Recent Advancements in Materials Research, July 19-20, 2012
11.	PSN College of Engineering and Technology, Tirunelveli	Growth, optical and microhardness studies of SrF_2 added $(\text{NH}_4)_2\text{SbF}_5$ single crystals.	III National Conference on Advanced Materials, Jan 23 -25, 2013
12.	St. Mary's College, Tuticorin, Tamil Nadu	Influence of alkali metals added on the growth and characterization of Ammonium fluoro tri antimonates single crystals.	National Conference on Advanced Materials, Feb 15 -16, 2013
13.	St. Xavier's College, Palayamkottai, Tamil Nadu	Growth and characterization of pure and Ca^{2+} doped $\text{NH}_4\text{Sb}_3\text{F}_{10}$ single crystals. National Seminar on	National Seminar on Materials and nano materials, Mar 7-8, 2013
14.	Shivani College of Engineering, Tiruchirappali, Tamil Nadu	Growth, structural, optical and electrical properties of $\text{NH}_4\text{SbF}_4\text{-NaSbF}_4$	National Seminar on Novel Materials, Mar 9-10, 2013

		mixed crystals.	
15.	PSN coll. of Engineering and Technology, Melathediyoor, Tirunelveli		International conference on Functional materials, Sep 7 – 10, 2016
16.	Manonmaniam Sundaranar University, Tirunelveli	Growth and Characterization of a novel NLO active L-Phenylalanine Antimony Tri Fluoride Single Crystals,	National Seminar on Advances in Materials science, March 2-3, 2017
17.	St. Xavier's college, Palayamkottai	Stance of Journalist in their Profession	National seminar on women in science and technology
18.	Sadakathullah Appa College , Tirunelveli, Tamil Nadu		National Seminar on Recent Trends in Materials Science, Jan 9-10, 2018
19.	Sadakathullah Appa College , Tirunelveli, Tamil Nadu.		National Seminar on Emerging Trends in Physics, Jan 10-11, 2019
20.	SRM Institute of Science and Technology, Kattankulathur, Chennai.	Antimicrobial activity of Ag Nano particle using seed extract of Caesalpinia Bonducella Medicinal plant	5th International Conference on Nano Science and Technology, Jan 28-30, 2019.
21.	APC Mahalakshmi College For Women, Thoothukudi	Mineralogical And Morphological Characterisation of Samples with and Without Organic Manure	International Conference on Recent Trends in Multidisciplinary Research, Feb 27-28, 2020

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
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1.	Greening the Red Planet	Department of Physics	Aditanar College, Tiruchendur July 17, 2020
2.	Applications of spectroscopic methods for chemical analysis	Dept. of chemistry	Mookambigai college of engineering, pudhukottai June 24, 2020
3.	Material science in the topic of development of single crystals for frequency conversion applications.	Dept. of physics	Mookambigai college of engineering, pudhukottai June 24, 2020
4.	Tuning the morphology of nanomaterials for electro chemical applications	Dept. Of chemistry	Kongunadu college of engineering and technology,Trichi June 19, 2020
5.	Electrospun 1D nanomaterials and their applications in DSSC	Dept. of physics	Saveetha Engineeringcollege(Autonomous) June 23,2020
6.	International webinar on advances in functional materials	Dept. of physics	MarIvanos college(Automous), Tiruvananthapuram June 26-28,20220
7.	Nanomaterials- A multidisciplinary approach	Dept. of physics	Saveetha Engineering college(Autonomous) July 20, 2020
8.	Recent advances in materials science and technology	Dept. of physics	Aditanar college of Arts and Science, Tiruchendur June 26,2020
9.	Advances in crystal growth and nano materials	Dept. of physics	Kamaraj college, Tuticorin June 18, 2020
10.	Nano structured metal oxide thin films for sensor technology	Dept. of physics	Saveetha Engineering college July 16,2020
11.	Nano materials for environmental applications	Dept. of physics	Kings Engineering college, Chennai June20, 2020
12.	Stable organic- inorganic hybrid halide perovskite nano crystals for LED's	Dept. of physics	Thyagarajar college, Madurai July 3, 2020
13.	Characterisation techniques for nano materials	Dept. of physics	National Institute of technology, Mysore June 26, 2020

14.	Use of Lanthanide ions as photoluminescence	Dept. of physics	Saveetha Engineering college, Chennai July 06,2020
15.	Opportunities and challenges on hydrogen energy and fuel cells	Dept. of physics	Annai Velankanni college of Engineering, Kanyakumari May26, 2020
16	Webinar on Hybrid nano Composites for energy storage	Dept. of science and Humanities	RVS Technical Campus, Coimbatore June 04,2020
17	Magnetocaloric materials – Advanced materials for magnetic cooling	Dept. of science and Humanities	Hindustan college of Engineering and Technology, Coimbatore June19, 2020
18	Preparation methods and deposition techniques of nano structures	Research dept. of physics	National college, Trichi July 25, 2020
19	Online education- obstacle and solutions	IQAC	St. Xavier's college, Tirunelveli July16, 2020
20	Cyclic and linear voltametry – Fundamentals and applications	Dept. of Chemistry	Bhaktavatsalam memorial college for women, chennai May31, 2020
21	Quality metrics in higher education	IQAC	Sadakabdullah Appa college, Tirunelveli May 21, 2020
22	A Star's dance at the centre of our milky way galaxy	Dept. of Applied Physics	Karunya Deemed university, Coimbatore June 19, 2020
23	Advancement in material science	Science club	Jeppiyar institute of technology, Sriperumputhur June 5 -6, 2020
24	Recent Advances in Material science and Nano technology	Dept. of physics	Bannariamman institute of technology, Satyamangalam, Erode June 4-6, 2020
25	Powder diffraction pattern analysis using openwares	Dept. of Physics	VOCCollege, Tuticorin June 22, 2020
26	Virtual conference on the development of Advanced materials for future technology	Jeonbuk university and VIT	VIT, Chennai July 9-10, 2020

27	The Universe – reaching through radio waves	Dept. of Applied Physics	Karunya Deemed University, Coimbatore May 29, 2020
28	Virtual workshop on nano bio technology –nano medicine, drug delivery and biomaterials	National centre for nano science and nano technology,	University of Madras, Chennai August 31-September 5, 2020
29	MATERIALS TECHNOLOGY ADVANCEMENT IN CURRENT SCENARIO - MTACS2020	Dept. of Physics	Sathyabama institute of science and technology, Chennai July 04 – 10, 2020

COUNTRIES VISITED

EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES

ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)

STAND activities in charge in St.Xavier's College (Autonomous), Palayamkottai in the years 2009,2014 and 2018.

Member of fine arts committee from 2014- 2018.

Date: 28/07/2022

Name: R.Mary Jenila