

# RESUME



**Name: Dr. S. G. Rejith**  
**Designation: Assistant Professor**  
**Department: Department of Physics**  
**Address: St. Xaviers College Palayamkottai - 627002**

## PERSONAL DETAILS

Date of Birth : 11-06-1985  
Qualification : M.SC., B.Ed., M.Phil., Ph.D  
Designation : Assistant Professor  
Department : Department Of Physics  
Community : BC  
Religion : Christian  
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## ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
Ph. D	Nano Science	S.T. Hindu College, Nagercoil	Manonmaniam Sundaranar University	2014

M. Phil	Physics	S.T. Hindu College, Nagercoil,	Manonmaniam Sundaranar University	2009
B. Ed.	Physics	N.V.K.S.D. College, Attoor	Manonmaniam Sundaranar University,	2008
M. Sc.	Physics	N.M.C. College, Marthandam	Manonmaniam Sundaranar University,	2007
B. Sc.	Physics	N.M.C. College, Marthandam	Manonmaniam Sundaranar University, Tirunelveli	2005

### ACADEMIC IDENTITY

*VIDWAN ID	287696
*ORCID ID	0000-0002-4315-0477
*SCOPUS ID	55748486400
*RESEARCHER ID/ PUBLONS ID	<a href="#">GOK-0626-2022</a>
GOOGLE SCHOLAR LINK	<a href="https://scholar.google.com/citations?hl=en&amp;authuser=1&amp;user=CHRwnLcAAAAJ">https://scholar.google.com/citations?hl=en&amp;authuser=1&amp;user=CHRwnLcAAAAJ</a>

### TEACHING EXPERIENCE

Date of Appointment	16.06.2010
Date of Retirement	30.11.20245
Teaching Experience	UG: 12 Years
	PG: 12 Years
	M.Phil. - Nil
Research	Guided M Phil: Nil Guided Ph D: Completed - 1 Guiding Ph Scholar: Ongoing 3

COURSES / CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
Engineering Physics	TKSCTTHENI	16.11.2009	01.06.2010	7 Months
B.Sc Physics M.Sc Physics	St. Xaviers College Palayamkottai	16/06/2010	18/06/2023	13 Years

B.Sc Physics	St. Xaviers College Palayamkottai	19/06/2023	Working	2 Years
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AWARDS RECEIVED	
1.	Best Paper Awarded in 2019 by <i>International Journal of Research and Analytical Reviews</i> For The Paper "Synthesis, Characterization And Photocatalytic Degradation of CdO Nanoparticles"
2.	Best Paper Awarded In 2018 By <i>Science Education And Technology Platform</i> , For the paper 'Synthesis and characterization of cobalt Ferrite nano particles'

ADMINISTRATIVE EXPERIENCE			
S. No	DESIGNATION	INSTITUTIONS	YEAR
1	Standin Charge	St. Xavier's College, Palayamkottai	2016-2018
2.	Campus Ministry In charge	St. Xavier's College, Palayamkottai	2018-2020
3	AICUF In charge	St. Xavier's College, Palayamkottai	2020-2022
4	NCC Officer	St. Xavier's College, Palayamkottai	2024 Onwards
5.	Department Association Secretary	St. Xavier's College, Palayamkottai	2024-2025 2025-2026

MEMBERSHIP		
S. No	Designation	Particulars
1.	Research Supervisor	Research Supervisor for Ph.D. Program Recognised by Manonmaniam Sundaranar University, Tirunelveli, India.
2.	Examiner And Evaluator	Manonmaniam Sundaranar University, Tirunelveli

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (UGC / HRDC / TLC-PMMNMT ONLY)			
S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Four Week Induction Programme For "Faculty in Universities/Colleges/Institute of Higher Education"	RCMOOCS, Teaching, Learning Centre, Ramanujan College, University of Delhi,	Online <b>20-06-2022 to 19-07-2022</b>

		New Delhi	
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<b>ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (SXC &amp; Others)</b>			
<b>S. No</b>	<b>Name of the Training</b>	<b>Name of the Sponsoring Agency</b>	<b>Place and Date</b>
1	Orientation Programme for Teachers	IQAC	St. Xavier's College, Palayamkottai <b>14,15-June-2010</b>
2	Orientation Programme for Teachers		St. Xavier's College, Palayamkottai <b>15-June-2011</b>
3	Orientation Programme for Teachers	IQAC	St. Xavier's College, Palayamkottai <b>18,19-June-2012</b>
4	Orientation Programme for Teachers	IQAC	St. Xavier's College, Palayamkottai <b>21-January-2014</b>
5	Orientation Programme For Teachers on Innovative Teaching Strategies for Student-Centred education	IQAC	St. Xavier's College, Palayamkottai <b>05-July-2014</b>
6.	Orientation Programme for Teachers on Classroom Management and Teaching Skills	IQAC	St. Xavier's College, Palayamkottai <b>21-August-2014</b>
7.	Orientation Programme for Teachers on Millennium Psychology of Students	IQAC	St. Xavier's College, Palayamkottai <b>14,15-June-2016</b>
8.	Orientation Programme for Teachers on Counselling and Mentoring	IQAC	St. Xavier's College, Palayamkottai <b>19,20-June-2017</b>
9.	Orientation Programme for Teachers	IQAC	St. Xavier's College, Palayamkottai <b>15, 16-07-2022</b>
10.	Refresher Course on Physics	UGC	Manonmanium Sundaranar University," Held On 29 & 30 January 2018.
11.	Faculty Induction Programme	Jesuit Madurai Province Higher Education Commission	Held at Sacred Heart College, Chembaganur Kodaikanal on 5- 7 <sup>th</sup> June 2023

12.	Faculty Development Programme	AIACHE	Held At Bishop Heber College Tiruchirapalli on 18-20 <sup>th</sup> May 2023
13.	Workshop on aspects of Higher Education	IQAC	Held at St. Xavier's College, Palayamkottai On 15 <sup>th</sup> June 2023
14.	Orientation Program Teachers	IQAC	Held at St. Xavier's College, Palayamkottai On 16-17 <sup>th</sup> June 2023

### DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
M.Sc.	E.S.R. Study of Mn-Doped ZnS Nanoparticles	Manonmaniam Sundaranar University, Tirunelveli
M.Phil	Preparation and Characterization of NiO:S <sup>2-</sup> Nanocrystals	Manonmaniam Sundaranar University, Tirunelveli
Ph.D	Synthesis and Characterization of Divalent Metal Doped Copper Oxide Nanoparticles	Manonmaniam Sundaranar University, Tirunelveli

### AREAS OF RESEARCH

Nano Science

Crystallography

Energy Storage

### RESEARCH PROJECTS CARRIED OUT

S. No	Title of the Project (Minor)	Name of the Funding Agency& Amount	Duration
1	In Vitro Cell Viability Against Vero Cells and Antimycotic Study of Green-Synthesized Silver Nanoparticles Using Betel Leaf	TNSCST	6 Months

<b>PUBLICATIONS</b>				
<b>BOOKS</b>	<b>BOOK CHAPTERS</b>	<b>SCOPUS</b>	<b>WEB OF SCIENCE</b>	<b>UGC LISTED</b>
1		05		7
<b>OTHER INDEXED</b>	<b>AS A RESOURCE PERSON</b>	<b>PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS</b>	<b>WEBINARS, SEMINARS, WORKSHOPS ATTENDED</b>	
8	1	8	41	

<b>PUBLICATIONS: BOOKS ()</b>				
<b>S. No</b>	<b>Title of the Book</b>	<b>Publication</b>	<b>Year</b>	
1	An Introduction to Nano Science	Lambert Academic	2016, ISBN- 9786137338650	

<b>BOOK CHAPTERS ()</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Book</b>	<b>ISSN No., Pg.No</b>

<b>PUBLICATIONS: SCOPUS INDEXED JOURNALS ()WEB OF SCIENCE ()</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN No., Volume, Issue, Impact factor &amp; Pg. No</b>
1	Optical, Thermal and Magnetic Studies On Zinc Doped Copper Oxidenanoparticles'	Materials Letters	ISSN;0167-577X, journal no;3978,106(2013)87–89. IF;3.574
2	Investigation on the growth, characterisation and computational analysis of 2-amino, 2-thiazoline single crystals.	Chemical Physics Impact	100187, 6, March 2023
3	Study of structural and optical behavior of silver- copper bimetallic nanoparticles	Physics And Chemistry of Solid State	1729-4428 , VOL 25 NO 1 2024

4	Co-precipitation vs. Green Synthesis: A Comparative Analysis of Structure, Morphology, Optical Properties, and Antibacterial Activity of Ag/ZnO Nanocomposite	Uttarpradesh Journal Of Zoology	0256-971X, VOL 45 2024
5	Evaluation of cyto toxicity effectin Ag/Zno Nanocomposites on human myelogenous leukaemia	Uttarpradesh journal of zoology	0256-971X, VOL 45, 21 may 2024

<b>PUBLICATIONS: UGC LISTED JOURNALS (0)</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN No., Volume, Issue, Impact factor &amp; Pg. No</b>
1	Synthesis of Cadmium-Doped Copper Oxide Nanoparticles: Optical and Structural Characterizations	Advances in Applied Science Research	<b>Volume and Issue:</b> 4(2), 2013, Pages: 103–109 <b>ISSN:</b> 0976-8610
2	Investigation on Structural and Optical Properties of Cadmium-Doped Lead Oxide Nanoparticles	International Advanced Research Journal in Science, Engineering and Technology	<b>Volume and Issue:</b> Vol. 4, Issue 12, 2017 <b>ISSN:</b> 2393-8021
3	Synthesis and Characterization of Cobalt Ferrite Magnetic Nanoparticles Coated with Polyethylene Glycol	Advances in Nanobiomed & D	<b>Volume and Issue:</b> 2017; 1(1) Pages 71–77 <b>ISSN:</b> 2559-1118
4	Dielectric Properties of Pure and Zinc-Doped Nanoparticles	International Journal of Engineering Science Invention	<b>ISSN:</b> 2319-6734 UGC-2573
5	Optical and Thermal Measurements of Mixed CuO–ZnO Nanoparticles	IJCRT	ISSN: 2320-2552, UGC-49023
6	Synthesis of Cadmium-Doped Copper Oxide Nanoparticles: Optical and Structural Characterizations	Advances in Applied Science Research	<b>Volume and Issue:</b> 4(2), 2013, <b>Pages:</b> 103–109 <b>ISSN:</b> 0976-8610
7	Investigation on Structural and Optical Properties of Cadmium-Doped Lead Oxide Nanoparticles	International Advanced Research Journal in Science, Engineering and Technology	<b>Volume and Issue:</b> Vol. 4, Issue 12, 2017 <b>ISSN:</b> 2393-8021

<b>PUBLICATIONS: OTHER INDEXED JOURNALS ()</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN No., Volume, Issue, Impact factor &amp; Pg.No</b>
1	Synthesis, Characterization, and Photocatalytic Degradation of CdO Nanoparticles	IJRAR	ISSN: 2348-1269
2	CuO Nanoparticles: Synthesis and Biomedical Application	IJRRTI	ISSN: 2456-3315
3	Magnetic, Optical, and CHN Analysis of Mixed ZnO–NiO Nanoparticles	International Journal For Research In Applied science & Engineering. Technology	Issn:2321-9653, volume6,
4	Microwave Synthesis of Copper Oxide Nanoparticles: Optical and Structural Characterization	Scientia Acta Xaveriana	3(2) (2012)65-72. ISSN:0976-1152
5	Optical Characterization of Zn-Doped CuO Nanoparticles	Scientia Acta Xaveriana	4(1) (2013)91-98. ISSN:0976-1152
6	Electrical and Magnetic Properties of Solvothermally Synthesized Mn-Doped CuO Nanoparticles	Scientia Acta Xaveriana	8(2018)77-90. ISSN:0976-1152
7	Synthesis and Structural Characterization of Copper Oxide Nanoparticles	Asian Academic Research Journal of Multi-Disciplinary	1(6) (2013). ISSN:2319-2801
8	Ferromagnetic Mn-Doped Copper Oxide Nanoparticles: Synthesis and Surface Features	Journal Of Nanotechnology and Nano- Engineering	VOL1, NO2 (2015).

<b>WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP PAPER PRESENTED: National () International ()</b>			
<b>S. N o</b>	<b>Name of the Event</b>	<b>Name of the Sponsoring Agency</b>	<b>Place and Date</b>
1.	National Conference on Advanced Materials (NCAM-2009)	S.T. Hindu College, Nagercoil	PSN College of Engineering, Tirunelveli, held on August 27–29, 2009, where a paper on “Preparation and Characterization of NiO S <sub>2</sub> Nanocrystals” was presented.

2.	Conference on “Physics of New Materials”	St. Xavier’s College, Palayamkottai	Noorul Islam University, Nagercoil, held on April 20–21, 2012, where a paper on “Growth and Characterization of Cadmium-Doped CuO Nanoparticles” was presented.
3.	Conference on Physics of New Materials	St. Xavier’s College, Palayamkottai	Noorul Islam University, Nagercoil, held on April 20–21, 2012 – Presented a paper on Microwave Synthesis of Zn-Doped CuO Nanoparticles
4.	National Conference on Advanced Materials (NCAM-2009)	S.T. Hindu College, Nagercoil	PSN College of Engineering, Tirunelveli – held on August 27–29, 2009, and presented a paper on Preparation and Characterization of NiO:S <sup>2-</sup> Nanocrystals
5.	National Seminar on Emerging Trends in Physics	St. Xavier’s College, Palayamkottai	Sadakathulla Appa College, held on January 10–11, 2019, and presented a paper on Solvothermal Synthesis and Dielectric Analysis of CuO Nanoparticles
6.	National Conference on Innovative Trends in Materials Science	St. Xavier’s College, Palayamkottai	Arignar Anna College, Aralvoimozhi, held on August 23–24, 2013 – presented a paper on ‘Ferromagnetic Mn-Doped CuO Nanoparticles
7.	International Conference on Recent Advances in Materials Science	St. Xavier’s College, Palayamkottai	National College, Kovilpatti, held on June 4–6, 2019, and presented a paper on Synthesis and Biomedical Application – Antibacterial Treatment
8.	International E-Conference on Recent Trends in Applied Physics	St. Xavier’s College, Palayamkottai	Sri Sarada College, on October 28, 2021 – presented the paper entitled ‘In Vitro Cell Cytotoxicity and Viability of Synthesized Silver Nanoparticles Using Vero Cells

#### AS A RESOURCE PERSON (1)

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	Young Scientist Programme (YSSP), May 2013	Tamil Nadu State Council for Science and Technology (TNSCST)	St. Xavier’s College, Palayamkottai

2	Young Scientist Programme (2024)	Tamil Nadu State Council for Science and Technology (TNSCST)	St. Xavier's College, Palayamkottai
3	Leadership Training	Xavier hostel	Xavier hostel

<b>WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:</b>			
<b>S. No</b>	<b>Name of the Event</b>	<b>Name of the Sponsoring Agency</b>	<b>Place and Date</b>
1	SOP 06 (N.M.C. College, Marthandam)	UGC	SOP 06 (N.M.C. College, Marthandam) – participated in the seminar on ‘Photoacoustics and Nanotechnology’ on October 6, 2006
2	The National Workshop on Trends in Material Research	UGC	Scott Christian College, Nagercoil – participated in the National Workshop on ‘Trends in Material Research’ held on February 15–16, 2007
3	The Seminar on Nuclear Radiation	UGC	Holy Cross College, Nagercoil – participated in the seminar on ‘Nuclear Radiation’ held on January 5, 2007
4	National Conference on Advances in Material Science	UGC	Holy Cross College, Nagercoil – participated in the National Conference on Advances in Material Science held on January 30, 2009
5	National Conference on Advance Materials (NCAM-2009)	UGC	PSN College of Engineering, Tirunelveli – participated in the National Conference on Advance Materials (NCAM-2009) held on August 27–29, 2009
6	National Seminar on ICT – Smart Classroom Teaching	IQAC	St. Xavier's College, Palayamkottai – participated in the National Seminar on ICT – Smart Classroom Teaching held on September 27, 2011
7	Innovations in Curriculum Designing under Choice Based Credit System	IQAC	St. Xavier's College, Palayamkottai – participated in ‘Innovations in Curriculum Designing under Choice Based Credit System– held on December 7, 2011
8	Advances in Smart Materials for Optoelectronic Applications	IQAC	St. Xavier's College, Palayamkottai – participated in the National Seminar on ‘Advances in Smart Materials for Optoelectronic Applications’ held on January 20–21, 2011
9	Seminar on Nanostructured Materials	UGC	S.T. Hindu College, Nagercoil – participated in the State Level Seminar on ‘Nanostructured Materials’ held on February 11–12, 2011

10	National Workshop on Advanced Analytical Techniques for Materials Characterization	AICTE	S.R.M. University, Chennai – participated in the National Workshop on ‘Advanced Analytical Techniques for Materials Characterization’ held on July 19–20, 2011
11	National Conference on Physics of New Materials	DST	Noorul Islam University, Nagercoil – participated in the National Conference on Physics of New Materials held on April 20–21, 2012
12	National Conference on Recent Trends in Physics	DST	Noorul Islam University, Nagercoil – participated in the National Conference on Recent Trends in Physics held in March 2017
13	National Seminar on Recent Advancements in Materials Research	UGC	Scott Christian College, Nagercoil – participated in the National Seminar on Recent Advancements in Materials Research held on July 19–20, 2012
14	National Seminar on Emerging Trends in Physics	IQAC	Sadakathulla Appa College – participated in the National Seminar on Emerging Trends in Physics – held on January 10–11, 2019
15	Faculty Workshop on Competence Building	IQAC	St. Xavier’s College, Palayamkottai – participated in the Faculty Workshop on Competence Building held on March 15–16, 2013
16	Innovations in Student-Centered Teaching–Learning Process	IQAC	St. Xavier’s College, Palayamkottai – participated in the National Seminar on Innovations in Student-Centered Teaching–Learning Process in the 21st Century held on January 29–30, 2015
17	National Seminar on Psychology of Students	IQAC	St. Xavier’s College, Palayamkottai – participated in the National Seminar on Psychology of Students held on September 30, 2016
18	National Seminar on Advances in Materials Science	IQAC	St. Xavier’s College, Palayamkottai – participated in the National Seminar on Advances in Materials Science held on March 5, 2018
19	National Seminar on Assessment and Accompaniment of Students	IQAC	St. Xavier’s College, Palayamkottai – participated in the National Seminar on Assessment and Accompaniment of Students held on March 30, 2019
20	National Conference on Innovative Trends in Materials Science	DST	Arignar Anna College, Aralvoimozhi – participated in the National Conference on Innovative Trends in Materials Science held on August 23–24, 2013

21	International Conference on Recent Advances in Materials	DST	National College, Kovilpatti – participated in the International Conference on Recent Advances in Materials Science held on June 4–6, 2019
22	Online FDP on	Kristi Jayanthi College	Kristi Jayanthi College – participated in the Online FDP on Remarkable Structural, Magnetic, and Microwave Adsorption Properties of Rare Mn-Cu Ferrites on May 4, 2020.
23	Webinar On	SCAD Engineering College	SCAD Engineering College – participated in the webinar on ‘Walking on a Dark Road’ on May 8, 2020
24	Webinar On	St. Mary’s College, Thoothukudi	St. Mary’s College, Thoothukudi – participated in the webinar on ‘Selection of Appropriate Statistical Tools: A Critical Way of Successful Research’ on May 12, 2020
25	National Webinar	IQAC.	St. Xavier’s College – participated in the webinar on ‘Accelerating Education 4.0 Using ICT Tools – Post COVID Paradigm’ on June 17, 2020.
26	National Webinar	IQAC	St. Xavier’s College – participated in the National Webinar on COVID-19 & Care for Environment on June 26, 2020
27	National Webinar	Noorul Islam University	Noorul Islam University – participated in the webinar on ‘Teachers and Technology’ on May 26, 2020
28	National Webinar	IQAC	St. Xavier’s College – participated in the National Webinar on ‘COVID: A Hidden War in Open Field’ on June 29, 2020
29	National Workshop	Immaculate College	Immaculate College – participated in the workshop on Spectroscopic Techniques on April 30, 2020
30	Lecture Series On	St. Jhon’s College	St. John’s College – participated in the Lecture Series on Optical Materials on June 6, 2020 Karunya University – participated in the webinar on ‘The Exciting Story of Exoplanets’ on July 8, 2020
31	National Webinar	Popes College	Pope’s College – participated in the webinar on ‘Marvels and Mysteries of the Universe’ on June 9, 2020

32	National Webinar	IQAC	St. Xavier's College – participated in the webinar on 'Recent Trends in Crystal Growth' on July 10, 2020
33	National Webinar	Crescent Institute	Crescent Institute of Science and Technology – participated in the webinar on 'A Journey Towards Wave Mechanics' on June 12, 2020
34	National Webinar	G.N.T.Arts College	G.N.T. Arts College – participated in the webinar on 'Micro and Nanotechnology and Its Applications' on May 14, 2020
35	International Webinar	IQAC	St. Xavier's College – participated in the International Webinar on Frontiers in Nanotechnology and Applications on July 15, 2020
36	National Webinar	Francis Xavier Engineering College	Francis Xavier Engineering College – participated in the webinar on 'Introduction to Machine Language' on July 24, 2020
37	International Webinar	IQAC	St. Xavier's College – participated in the International Webinar on Optical Nano Bio Sensors and Microfluidics in X-Ray Spectroscopy on July 24, 2020
38	National Webinar	National College	National College, Trichy – participated in the webinar on 'Preparation Methods and Deposition Techniques of Nanostructures' on July 25, 2020
39	National Webinar	Francis Xavier Engineering College	Francis Xavier Engineering College – participated in the webinar on 'Big Data in Cloud' on May 25, 2020
40	National Webinar	Karunya University	Karunya University – participated in the webinar on 'The Universe: Reaching Through Radio Waves' on May 29, 2020
41	International Webinar	Thiyagarajar College	Thiyagarajar College, Madurai – participated in the International Webinar on 'Big Nano Interface for COVID' on May 31, 2020

#### COUNTRIES VISITED


**EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES**  
**ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)**

<b>NSS</b>
Badminton
<b>Literary and Cultural</b>
SCOUT

**Name: Dr. S. G. Rejith**