Dr. Sr. G. Jenita Rani

Designation : Assistant Professor

Department : Physics

Email ID : jenitasjl@gmail.com

Languages Proficiency

Read : English & Tamil

Write : English & Tamil

Speak : English & Tamil

1. Qualification

S. No.	Degree / Diploma / Certificate	Discipline	Name of the Institution	Year of Passing
1.	UG	Physics	Fatima College, Madurai	2005
2.	PG	Physics	Loyola College, Chennai	2009
3.	M.Phil.	Physics	Loyola College, Chennai	2011
4.	Ph.D.	Physics	Arul Anandar College, Madurai Kamaraj University, Madurai	2017
5.	Certificate	Pastoral Communication	Niscort, New Delhi	2006
6.		Special Course on Advanced Counselling	Person To Person – Institute for Christian Counselling	2019
7.	Online Certificate Course	Developing Soft Skills and Personality Development	IIT, Kanpur Through NPTEL, Swayam	2019
8.		Enhancing Soft Skills and Personality Development	IIT, Kanpur Through NPTEL, Swayam	2021

2. Teaching Experience / Other Experience

S. No.	Institution / Organization	From - To
1.	Fatima College, Madurai	2012-2013
2.	Fatima College, Madurai	2016-Till Date

3. Position Held in Fatima (Vice Principal, HoD, Dean, Coordinator, Member etc.)

S. No.	Name of the Position	From - To
1.	Asst. Director, Fatima College Hostel, Madurai	2012 – 2014 & 2016 – May 2018

S. No.	Name of the Position	From - To
2.	Member, IQAC	2017 – 2018
3.	Member, Board of Management	2016-Till Date
4.	Director, Fatima College Hostel, Madurai	June 2018 – June 2021
5.	Member, College Administrative Committee	2018 - Till Date
6.	Member, Research Advisory Committee	2018 - 2020
7.	Student's Counsellor	2019 - 2020
8.	Member, NAAC Core Committee –Cycle 4	2021
9.	Vice-Principal I, Shift II	2021 – June 2024
10.	Director, Fatima College Hostel, Madurai	June 2024 – Till Date
11.	Member, IQAC	2024-
12.	Co-Ordinator, Friends of Fr Madaille	2024-

4. Achievements

S. No.	Name of the Award	Award Received for	Sponsors / Source	Date
1.	Best Paper Award	Paper Presentation	NCHSM 2014	March, 2014
2.	Topper	Topper in NPTEL Online Certificate Course (Developing Soft Skills and Personality Development)	IIT, Kanpur	November, 2019
3.	Topper	Topper in NPTEL Online Certificate Course (Enhancing Soft Skills and Personality Development)	IIT, Kanpur	November, 2021
4.	Chair Person for A Session	International Workshop On "Sensors"	Intern the Academy of Sciences, Chennai, Department of Analytical Chemistry & Madurai Kamaraj University	August 2021
5.	United Board Fellow	Higher Education Leadership Development	United Board for Christian Higher Education in Asia	August 2022

5. Areas of Specialization

- **Nano Science and Its Applications (Electrochemistry, Batteries, Electrochemical Sensors, FuelCells)**

6. Orientation/Refresher/Training Programmes/FDP Attended

S. No.	Programme	Theme	Organized by	Date
1.	Faculty Induction Program	Teaching In Higher Education	UGC - MMTTC, University of Hydrabad	Feb. 05 - Mar. 05,2024

2.	Refresher Course	Physical Sciences	UGC - MMTTC, Gandhigram Rural Institute	Sep. 25 - Oct. 08, 2024
3.	United Board Fellows Program	Leadership In Higher Education	United Board for Higher Education in Asia	Aug. 2022 - Nov. 2023
4.	Faculty Development Program	Epistemic Access to Enhance Effective Learning	Idhaya Engineering College for Women	July31 & Aug. 01, 2020
5.	Faculty Development Program	Inclusive Procedures and Processes in Assessment and Accreditation by NAAC	St. Joseph College, Trichy	June 30 - July 04, 2020
6.	Faculty Development Program	Advance Materials and Their Applications	Auxillium College, Vellore	July 02 - June 06, 2020
7.	Faculty Enrichment Program	Resetting Minds in Upsetting Times	Fatima College, Madurai	July 2020
8.	Faculty Development Program	Alternative Teaching Methodology	Fatima College, Madurai	Oct. 2017

7. Papers Presented on National/International Seminars, Workshops, Conferences & Symposiums

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
1.	2nd National Conference on Hierarchically Structured Materials (NCHSM 2014)	SRM University, Chennai	Mar. 24 & 25, 2014	Synthesis and Characterization of Fe3o4 Nanoparticles by Sol-Gel Method
2.	18th National Convention of Electrochemists (NCE - 18) on Society for Advancement of Electrochemical Science and Technology	Cecri, Karaikudi & Madurai Kamaraj University	July 23 & 24, 2014	Magnetic Fe3o4 –Reduced Graphene Oxide Nanocomposites for Electrochemical Biosensing
3.	International Conference on Nanomaterials for Energy, Environment, Catalysis and Sensors (ICNEECS-15)	Madurai Kamaraj University, Madurai	Dec. 11 & 12, 2015	Synthesis of Graphene/Znfe2o4 Nanocomposites as Efficient Catalysts for Photo-Oxidative Degradation of Methylene Blue Dye
4.	Recent Trends in Physics and Material Research	Jayaraj Annapackiam College for Women Periakulam	Feb. 04 & 05, 2016	Investigation on the Structural, Morphological Behaviour of Solvothermally Synthesized Ferrite Nanoparticles
5.	International Conference on Frontiers in Nanoscience and Nanotechnology (ICFNN- 2016)	Sastra University Thanjavur	Feb. 26 - 28, 2016	Synthesis of Self Assembled Magnetite Spherical Structures By A Solvothermal Reaction With Enhanced Photocatalytic Activity for Dye Degradation
6.	National Conference on Nanoscience and Nanotechnologies in the Livelihood Enhancement of Common Man	Arul Anandar College Karumathur	Feb. 08 & 09, 2017	Hierarchically Assembled Flower Like Fewo4 Nanostructures By A Solvothermal Reaction
7.				Synthesis Of Rgo/Ag Nanocomposite Through a Green Method
8.				One Pot Facile Green Synthesis of Rgo/Ag-Au Nanocomposite

9.				Synthesis of Sandwich Structured Ceramics
10.	National Conference on Recent Trends in Physics	Jeyaraj Annapackiam College, Periakulam	Feb. 09, 2018	Synthesis And Characterization Of Flower Like Fe3o4 Nanostructures
11.				Investigation on the Structural and Morphological Properties of Solvothermally Synthesized Znfe2o4 Nanoparticles
12.				Synthesis and Characterization of Mnfe2o4 Nanoballs
13.	International Conference on Nanoscience and Nanotechnology - 2019	Vellore Institute of Technology (Vit), Vellore	Nov 29 - Dec 1, 2019	Porous Organic Polymer Coated Permselective Separator Mitigating Self- Discharge for Lithium Sulfur Batteries
14.	International Workshop on "Sensors"	Madurai Kamaraj University	Aug. 2021	Magpix Technology for Cytokine Profiling in Periodotitis
15.	Asian Conference on Solid State Ionics	Meenakshi College for Women, Chennai	Feb. 2024	Blend Polymer Electrolyte Based on Pva and Nelumbo Nucifera with Sodium Percholorate

8. PARTICIPATED ON NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date
1.	State Level Workshop on Global Ranking of Universities: Present Scenario	Madurai Kamaraj University	Mar. 22, 2019
2.	International Seminar on Advanced Materials (Am - 2019)	Madurai Kamaraj University	Sep. 23, 2019
3.	State Level Workshop "Help at Hand – Strengthening Faculty in Counselling Techniques to Facilitate Gen Z (Phase I & II)	St. Christopher College of Education & United Board for Christian Higher Education in Asia	Oct. 13 - 20, 2018 & Oct. 05 - 11, 2019
4.	Household Electronic Devices and Appliances	AVS College of Arts & Science, Salem	April 2020
5.	Taking Research Forward During Pandemic	Loyola College, Chennai	May 2020
6.	NAAC Reaccreditation Process During Post Covid Scenario	Yadava College, Madurai	November 2020
7.	Nano Structures for Next Generation Devices	Loyola College, Chennai	March 2021
8.	Leadership Program (United Board)	Singapore Management University	Nov. 20 - 23, 2023
9.	South Zone Conference on Implementation of New Education Policy	UGC, New Delhi at IIT, Chennai	Nov. 14, 2024
10.	National Catholic Media Conference	St. John Medical College, Bangalore	Nov. 23 & 24, 2024

9. ORGANIZED NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date
1.	TNSCST Sponsored National Science Day Celebration	Fatima College Madurai	Feb. 28, 2018
2.	"Advanced Materials For	Fatima College Madurai	July 2020

	Energy Storage Applications"		

10. Articles Published in Journals/Proceedings/Magazines/Books

S. No.	Journal/Proceeding/ Magazine/Book Name	Title of the Article	Month/ Year	Vol. No.	Issue No.	Page No.	ISSN	Publisher
1.	Journal Of Alloys and Compounds	Watsonia Meriana Flower Like Fe3o4/Reduced Graphene Oxide Nanocomposite for the Highly Sensitive and Selective Electrochemical Sensing of Dopamine	Dec. 2016	688	-	500 - 512	0925-8388	Elsevier
2.	Research on Chemical Intermediates	Reduced Graphene Oxide/Znfe2o4 Nanocomposite as an Efficient Catalyst for the Photocatalytic Degradation of Methylene Blue Dye	Apr. 2016	-	-	1 – 10	0922-6168	Springer
3.	Chemical Science Review and Letters	Self-Assembled Rgo/Fewo4 Flower Structures by A Solvothermal Reaction with Enhanced Catalytic Activity for Dye Degradation	June 2016	5	20	101 - 109	2278-6783	Aufau Periodicals
4.	Electro Catalysis	The Sensitive and Selective Enzyme-Free Electrochemical H2o2 Sensor Based on Rgo/Mnfe2o4 Nanocomposite	Jan. 2017	9	1	102-112	1868-5994	Springer
5.	Shanlax International Journal of Arts, Science and Humanities	Story Tellers Who Spin in Orbit of Space (Women in Space)	Feb, 2019	6	232 1-788x	153-157		Shanlax Publications
6.	Ionics	Fe3o4 Seated Rgo-Sulfur Complex as A Potential Cathode Material for Lithium Sulfur Batteries	Jan, 2020	7		1-10	0947-7047	Springer
7.	RSC- Materials Advances	A Porous Organic Polymer-Coated Permselective Separator Mitigating Self- Discharge of Lithium-Sulfur	May 2020	4		648-657		Royal Society of Chemistry

		Batteries						
8.	Applied Biochemistry and Biotechnology	3D Flower Like Fewo4/Ceo2 Hierarchical Architectures on Rgo for Durable and High Performance Microalgae Biophotovoltaic Fuel Cells	June 2020	192		751–769	0273-2289 (Print) 1559-0291 (Online)	Springer
9.	Chemistry Select	Self-Enhanced Charge-Discharge Behaviour of Mnfe2o4 Laden Composite Cathode for Lithium – Sulfur Batteries.	August - 2021	6	30	7628-7635	2365-6549	Wiley-VCH on behalf of Chemistry Europe
10.	Chemosphere	Polyethylene Terephthalate Waste Derived Nanomaterials (WDNMs) and Its Utilization in Electrochemical Devices	June-2024	353			1879-1298	Elsevier
11.	Journal of the Taiwan Institute of Chemical Engineers	Syzygium cumini-mediated synthesis of rGO/Ag-Au nanostructures: Efficient catalysts for rapid degradation of organic dyes	June-2024				1876-1089	Elsevier

11. Foreign Countries Visited on Academic Assignments/Training/Invited Programme

- Went on a Study trip to International Christian University, Japan under United Board Fellow Program (April 2023)
- Went on a Study trip to Sophia University, Japan (Service Learning under UB fellows' program) (April 2023)
- Participated in a Leadership Seminar in Singapore Management University, Singapore (November 2023)
- Participated in the international meeting of Communication Commission members, Sisters of St Joseph of Lyons, in Lyon, France (May 2024)