


<b>NAME</b>	<b>DR. MARILYN MARY XAVIER</b>	
<b>DESIGNATION</b>	Assistant Professor in Chemistry	
<b>QUALIFICATION</b>	M.Sc, CSIR-JRF/NET, Ph.D	
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### TEACHING INTERESTS

Physical chemistry, electrochemistry, spectroscopy, inorganic chemistry

### RESEARCH AREAS

Materials Science, inorganic chemistry, photocatalysis, supercapacitors

### ACADEMIC/PROFESSIONAL QUALIFICATIONS\*

NAME OF THE PROGRAMME	INSTITUTION/UNIVERSITY	YEAR OF PASSING
B.Sc Chemistry	Mahatma Gandhi University	2010
M.Sc Applied Chemistry	Cochin University of Science and Technology	2012
Ph.D	Mahatma Gandhi University	2021

### CAREER HISTORY/TEACHING EXPERIENCE

DESIGNATION	INSTITUTION/UNIVERSITY	YEAR OF SERVICE
Guest Lecturer	Devasom Board College, Thalayolaparambu	2013 September- 2014 March

## **INDUSTRIAL EXPERIENCE**

<b>DESIGNATION</b>	<b>ORGANISATION</b>	<b>YEAR OF SERVICE</b>
Summer Intern	Jubilant Biosys Pvt. Ltd, Bangalore	2 months
Research Associate	Rubber Research Institute of India, Kottayam	July 2021- January 2022
Project Associate	IIT Bombay	6 months

## **PHD THESIS**

<b>SL.NO</b>	<b>TITLE</b>	<b>GUIDE NAME</b>	<b>INSTITUTION</b>	<b>MONTH/YEAR</b>
1	Polymeric Carbon Nitride Based Functional Materials for Environmental Remediation and Energy Conversion applications	Dr. Suresh Mathew & Dr. P. Radhakrishnan Nair	School of Chemical Sciences, Mahatma Gandhi University, Kottayam	2021

## **AWARDS/ACHIEVEMENTS/OTHERS\***

<b>SL.NO</b>	<b>NAME OF AWARDS/ACHIEVEMENTS/OTHERS</b>	<b>DESCRIPTION</b>	<b>MONTH/YEAR</b>
1	CSIR-JRF	AIR-27	December 2012
2	Rank in M.Sc. Degree Examination	Third position	June 2012
3	Best Poster Award	Best poster presentation award at International Conference on Advanced Materials Science and Technology (ICAMST-2017) held at Bannari Amman Institute of Technology, Tamil Nadu	August 2017
4	Best Poster award	Best poster presentation award at Indian Analytical Science Congress-	February 2018

2018 held at Kumarakom, Kottayam,  
Kerala

**\*BEST PAPER,BEST POSTER,ANY OTHER POST HELD ETC...**

## **JOURNAL PUBLICATIONS**

SL.NO.	TITLE	NAME OF JOURNAL / VOL. NO / ISSUE NO / PAGE NOS	IMPACT FACTOR	MONTH / YEAR
1.	A 2D/1D heterojunction nanocomposite built from polymeric carbon nitride and MIL-88A(Fe) derived $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> for enhanced photocatalytic degradation of rhodamine B	New Journal of Chemistry,2022,46, 9486-9486	3.925	April 2022
2.	Fabrication of ternary composites with polymeric carbon nitride/MoS <sub>2</sub> /reduced graphene oxide ternary hybrid aerogel as high-performance electrode materials for supercapacitors.	New Journal of Chemistry, 45(44), 20660-20671	3.952	October 2021
3.	Carbon Nitride Quantum Dot-Embedded Poly (vinyl alcohol) Transparent Thin Films for Greenish-Yellow Light-Emitting Diodes.	ACS Omega, 6(35), 22840-22847	3.512	August 2021
4.	Exploring The Effect of Precursors of Polymeric Carbon Nitride Nanosheets on their Photo and	Chemistry Select, 5(41), 12679-12689	2.109	2020

	Electrocatalytic Applications			
5.	Green Synthesis of a Metal-Free 0D/2D Heterojunction: A Cost-Effective Approach	Chemistry Select, 4(39), 11541-11547	2.109	2019
6.	Emerging trends in sensors based on carbon nitride materials	Analyst, 144(5), 1475-1491	4.616	January 2019
7.	Synthesis and electrochemical characterization of electroactive 1D Nanofluids with high dielectric constants from hydrated ferrous sulphate.	Chemical Communications, 55(1):83-86	6.222	November 2019
8.	7. A quaternary TiO <sub>2</sub> /ZnO/RGO/Ag nanocomposite with enhanced visible light photocatalytic performance	New Journal of Chemistry, 41(14), 6445-6454	3.591	June 2017
9.	Synthesis, characterization and theoretical studies on novel organic-inorganic hybrid ion-gel polymer thin films from a $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> doped polyvinylpyrrolidone-N-butyl pyridinium tetrafluoroborate composite via	RSC Advances, 7(27), 16623-16636	3.361	January 2017

	intramolecular thermal polymerization			
10.	Synthesis of a ternary Ag/RGO/ZnO nanocomposite via microwave irradiation and its application for the degradation of Rhodamine B under visible light.	Environmental Science and Pollution Research, 24(18), 15360-15368	4.223	April 2017

### **CONFERENCE PUBLICATIONS**

SL.NO.	TITLE	NAME OF CONFERENCE	VENUE, MONTH / YEAR
1.	Spectroscopic investigations on ionic liquid-polymer composites of N-butyl pyridinium bromide and polyvinyl pyrrolidone for thin film applications	26 <sup>th</sup> Swadeshi Science Congress	Central Marine Fisheries Research Institute, Kochi, November 2016
2.	Graphitic Carbon Nitride: A promising metal free catalyst	International Conference on Science & Technology: Future Challenges & Solutions -2016	University of Mysore, Mysuru, August 2016
3.	Photocatalytic activity of graphitic carbon nitrides derived from different precursors	Indian Analytical Science Congress 2018	Backwater Ripples Resort, Kumarakom, Kottayam, February 2021
4.	Facile microwave synthesis and characterization of an	International Conference on Advanced Materials Science and Technology (ICAMST-2017)	Bannari Amman Institute of Technology, Tamil Nadu, August 2017

	efficient Ag decorated g-C <sub>3</sub> N <sub>4</sub> photocatalyst		
5.	Free-standing luminescent polymeric carbon nitride quantum dot films as phosphors in solid-state lighting	Indian Analytical Science Congress 2019	Thiruvananthapuram, September 2019

### **BOOKS AS AUTHOR/EDITED/CHAPTERS/REVIEWS**

SL.NO	TITLE	AUTHOR NAMES	ISBN NO.	MONTH/ YEAR
1.	g-C <sub>3</sub> N <sub>4</sub> based sensors (Book Chapter)	Marilyn Mary Xavier, Suresh Mathew	Paperback ISBN: 9780128230381 eBook ISBN: 9780128230619	September 2022

### **SEMINARS/CONFERENCES/WORKSHOPS ATTENDED#**

SL.NO	NAME OF THE PROGRAMME	NAME OF THE ORGANISER& SPONSORING AGENCY	VENUE & DATE	LEVEL *
1.	International Workshop and Symposium on Green Chemistry & Technology	P.G Department of Chemistry, Government Dungar College, Bikaner & Royal Society of Chemistry, London, Green Chemistry Network Centre, University of Delhi	Government Dungar College, Bikaner, 15-17 October 2018	International
2.	12 ICAM-JNCASR School on Clean and Renewable Energy	Department of Sciences & Technology Government of India,	JNCASR, Bengaluru, December 2017	International

	Technologies via Chemical Route	Royal Society of Chemistry, American Chemical Society		
3.	21 <sup>st</sup> Workshop & Symposium on Thermal Analysis (THERMANS-2018)	Department of Chemistry, Goa University, Indian Thermal Analysis Society, Board of Research in Nuclear Sciences	Goa University, January 2018	National
4.	Workshop on Research Methodology: Application of Research methods and statistics	Inter University Centre for disability studies and Indian Council of Social Science Research	Inter University Centre for disability studies, Mahatma Gandhi University, Kottayam, February 2013	Regional

\*INSTITUTIONAL, REGIONAL, STATE,NATIONAL, INTERNATIONAL

#(MENTION THOSE WHICH ARE RELEVANT & PREFERABLY WITHN PAST 5 YEARS)

### POSITIONS HELD IN COLLEGE

- Innovation and Entrepreneurial Development Centre (IEDC) Nodal Officer
- First year UG Value Education Coordinator

### UG PROJECTS GUIDED

SL.NO	TITLE	MONTH/ YEAR
1.	Synthesis and Characterization of ZnO nanoparticles	March 2022

### REFERENCES

Dr. Suresh Mathew, Professor, School of Chemical Sciences, Mahatma Gandhi University  
 Dr. S. Prathapan, Emiritus Professor, Department of Applied Chemistry, CUSAT