



Ms. Nisha Joseph B.Ed, NET

Assistant Professor · Department Of Physics

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APPOINTMENT

Joined 3 October 2012 · **Teaching** 14 Years and 11 Months · **Research** 7 Years

SPECIALISATION

Photocatalysis · Thin films

RESEARCH INTERESTS

Opto electronic Applications of p type materials.

COURSES HANDLED

Classical Mehanics · Quantum Mechanics · Nuclear Physics · Numerical Methods in Computational Physics.

LABORATORIES

MSc Physics Electronics Practical

QUALIFICATIONS

NET — Physical Science	2011
UGC CSIR	
Rank 256/543	
BEd — Physical Science	2006
Mahatma Gandhi University Kottayam	
MSc — Physics	2005
Mahatma Gandhi University Kottayam	

EXPERIENCE

Assistant Professor	Oct 2012 – Present
Teaching	

JOURNAL PAPERS

- [1] Nisha Joseph, Remya Ampadi Ramachandran, Alphonsa Paul, Saji Augustine, Tina Sebastian, “p-CuI/n-ZnO Heterojunction for Enhanced Dye Degradation in Water Treatment,” *Solid State Commun.*, vol. 406, 2025. doi: <https://doi.org/10.1016/j.ssc.2025.116192>.
- [2] Nisha Joseph, Tina Sebastian, Jilu C John, Alphonsa Paul, Jincemon Cyriac, Saji Augustine, “Exploring the photocatalytic potential of copper iodide thin films deposited via multiple spray technique,” *Appl. Surf. Sci. Adv.*, vol. 19, 2024. doi: <https://doi.org/10.1016/j.apsadv.2023.100570>.
- [3] Nisha Joseph, Tina Sebastian, Jilu C John, Saji Augustine, “Synthesis and characterization of sprayed Copper Iodide thin films on flexible substrate,” *AIP Conf. Proc.*, vol. 2263, 2020. doi: <https://doi.org/10.1063/5.0017797>.

CONFERENCE PAPERS

- [1] Nisha Joseph, Alphonsa Paul, Tina Sebastian, "Boosting Visible-Light Photocatalysis through Iodine-Enriched CuI/ZnO Heterojunction," in *International Conference on Advanced Materials (ICAM 2026)*, Departments of Physics, Deva Matha College, Kuravilangad, 7-8 January 2026.
- [2] Nisha Joseph, Tina Sebastian, Alphonsa Paul, Saji Augustine, "The Impact of Substrate Choice on the Photocatalytic Performance of CuI Films," in *International Conference on Innovative Materials (ICIM 2024)*, Dept of Physics and IQAC, St. Stephen's College, Uzhavoor, 21-22 November 2024.
- [3] Nisha Joseph, Tina Sebastian, Alphonsa Paul, Saji Augustine, "Probing the Applicability of CuI Thin Films in Photocatalytic Dye Degradation," in *International Conference on Advanced Materials (ICAM 2024)*, the Departments of Physics & Chemistry, Deva Matha College, Kuravilangad, 3-4 January 2024.
- [4] Nisha Joseph, Tina Sebastian, "p-CuI/n-ZnO Heterojunctions - Paving the Way for Enhanced Photocatalytic Dye Degradation in Water Treatment," in *National Conference on Functional Materials and Applications (NCFMA-2024)*, Cochin University of Science and Technology, 18-19 January 2024.
- [5] Nisha Joseph, Tina Sebastian, Jilu C John, Alphonsa Paul, Saji Augustine, "Photocatalytic studies of CuI thin films deposited on different substrates at room temperature," in *National Conference on Emerging Trends in Material Science (NCETMS 2022)*, St. Dominics College, Kanjirappally, 6-7 June 2022.
- [6] Nisha Joseph, Tina Sebastian, Jilu C John, Saji Augustine, "Synthesis and characterization of sprayed Copper Iodide thin films on flexible substrate," in *International Conference on Science and Technology of Advanced Materials (STAM 20)*, Mar Athanasius College, Kothamangalam, 14-16 January 2020.
- [7] Nisha Joseph, Tina Sebastian, Jilu C John, Saji Augustine, "Morphological and Compositional Study of Copper Iodide Thin Films," in *International Conference on Frontiers of Material science (FOMS-19)*, St. Joseph's College, Devagiri, Kozhikode, 16-18 December 2019.

TRAINING & FDPS

Refresher Course on Materials for Energy and Sustainability	4/11/2024-18/11/2024, 2 Weeks
Refresher course · MMTC,CS2-IISER · Bhopal · Online	
FDP on ICT and Internet of Things for Creating Smart Learning Environment	06/12/2021-12/12/2021
FDP · St. George's College, Aruvithura	
FDP on Nanomaterials Characterization Techniques and Results Analysis	27/07/2020-31/07/2020
FDP · Sabitribai Phule Pune University · Online	
FDP on Latex	17/08/2020-21/08/2020
FDP · MarThoma College, Thiruvalla	
Refresher Course in Materials Science	15/10/2020-28/10/2020
Refresher course · UGC HRDC, University of Kerala, Trivandrum · Online	
Orientation programme · UGC Human Resource Development Centre,University of Kerala · Kariavattom,Trivandrum · Offline	20/6-2018-17/07/2018, 4 Weeks
Refresher Course in Quantum Mechanics	1/5/2017-14/5/2017, 2 Weeks
Refresher course · Bishop Moore College · Mavelikara · Offline	

TALKS & EVENTS**FDP**

06/12/2021-12/12/2021

Organiser · St. George's College, Aruvithura

CERTIFICATIONS**Semiconductor Optoelectronics**

2020

NPTEL · 12 Weeks

MEMBERSHIPS**APT**

Life Member

LANGUAGES

Malayalam · English · Hindi