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| **NAME** | Neenu Mary Thomas | **A person wearing a purple sari  Description automatically generated** |
| **DESIGNATION** | Assistant Professor |
| **QUALIFICATION** | M.Sc, UGC CSIR NET |
| **EMAIL ID** | neenumarythomas@morningstar.edu.in |
| **PHONE NO** | 9895186905 |

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| **TEACHING INTERESTS** |
| Classical &Quantum Mechanics, Solid State Physics, Material Science |

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| **RESEARCH AREAS** |
| Nano Materials Science |

**ACADEMIC/PROFESSIONAL QUALIFICATIONS\***

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| **NAME OF THE PROGRAMME** | **INSTITUTION/UNIVERSITY** | **YEAR OF PASSING** |
| Ph. D. in Physics | Mahatma Gandhi University  | 2025 |
| MSc Physics | St. Joseph’s College For Women, Alappuzha, University of Kerala | 2013 |
| BSc Physics | St. Joseph’s College For Women, Alappuzha, University of Kerala | 2011 |
| Plus Two | H.S.S Thiruvampadi , Alappuzha, Board of Higher Secondary Examination | 2008 |
| S.S.L.C | St. Antony’s G.H.S , Alappuzha ,Board of Public Examinations, | 2006 |

**OTHER TRAINING PROGRAMS ATTENDED**

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| **NAME OF THE PROGRAMME** | **INSTITUTION/UNIVERSITY** | **YEAR**  |
| Higher Diploma in Software Engineering | NIIT | 2011 |
| Summer Research Fellowship Programme | Indian Institute of Science, Bangalore | 2012 |
| Orientation Course For Programme Officers of National Service Scheme | Empaneled Training Institution for NSS, Rajagiri College of Social Sciences | 2016 |
| Hands on Training on Solar Study Lamp Assembly | IITBombayX | 2019 |
| 8-Day Online hands- on training on Rietveld Refinement of PowderXRD Data Using FullProf, GSAS and JANA Software | Department of Physics, PSMO College, Kerala in Association with SIAS Research Forum | 24-31 July 2021 |

**CAREER HISTORY/TEACHING EXPERIENCE**

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| **DESIGNATION** | **INSTITUTION/UNIVERSITY** | **YEAR OF SERVICE** |
| Assistant Professor | Morning Star Home Science College, Angamaly | 2015- |
| Guest Lecturer  | St. Joseph’s College For Women, Alappuzha, University of Kerala  | 21st October 2013 to 23rd July 2014 |
| Assistant Professor (Adhoc)  | College of Engineering and Management, Punnapara  | 7th of August 2014 to 31st December 2014 |

**AWARDS/ACHIEVEMENTS/OTHERS\***

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| **SL.NO.** | **NAME OF AWARDS/****ACHIEVEMENTS/OTHERS** | **DESCRIPTION** | **MONTH/****YEAR** |
|  | Out Standing NSS Programme Officer | Mahatma Gandhi University, National Service Scheme | 2017-18 |
| 2 | N. Chandrasekaran Nair Gold Medal | University of Kerala  | 2011 |

**PATENTS PUBLISHED/GRANTED**

|  |  |  |  |  |
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| **SL.NO.** | **Title of the invention**  | **Status** | **Application No.** | **Publication Date**  |
| 1. **1**
 | **Novel Rare-Earth (Europium or Terbium) Doped Strontium Aluminate Nanoparticles for Fluorescent Staining of Live Plants** | **Published** | **202241024708** | **13/05/2022** |

**JOURNAL PUBLICATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.NO.** | **TITLE** | **NAME OF JOURNAL / VOL. NO / ISSUE NO / PAGE NOS** | **ISSN NO** | **MONTH /****YEAR** |
|  | Fluorescence bioimaging applications of europium-doped strontiumaluminate nanoparticles | Ceramics International | 0272-8842 | December 2024 |
|  | Concentration-dependent luminescence characterization of terbium-doped strontium aluminate nanophosphorshttp://dx.doi.org/10.1002/bio.4820 | Luminescence, Volume 39, Issue 7, e4820  | 1522-7243 | July 2024 |
|  | Tb-doped strontium aluminate nanophosphor: Cytotoxicity, phytotoxicity, and bioimaging in plant cells<https://doi.org/10.1016/j.plana.2024.100072> | Plant Nano Biology, Volume 8, 100072 | 2773-1111 | May 2024 |
|  | Synthesis and Characterisation of SrAl2O4: Eu3+ Orange-Red Emitting Nanoparticles<https://rdcu.be/dhKoL> | Journal of Fluorescence, Volume 33, issue 4 | 1573-4994 | July 2023 |
|  | [Structural and linear optical properties of](https://aip.scitation.org/doi/abs/10.1063/5.0016980)[blue light emitting Sr](https://aip.scitation.org/doi/abs/10.1063/5.0016980)[3](https://aip.scitation.org/doi/abs/10.1063/5.0016980)[Al](https://aip.scitation.org/doi/abs/10.1063/5.0016980)[2](https://aip.scitation.org/doi/abs/10.1063/5.0016980)[O](https://aip.scitation.org/doi/abs/10.1063/5.0016980)[6](https://aip.scitation.org/doi/abs/10.1063/5.0016980) | AIP conference Proceedings ,Volume 2265, Issue 1 | 030141  | November 2020 |
|  | Effect of Gamma Radiation on the Structure ofNeodymium: Chromium Doped Silicate Glasses | International Journal of Scientific and Research Publications, Volume 4, Issue 6,  | 2250-3153 | June 2014  |

**CONFERENCE PUBLICATIONS**

|  |  |  |  |
| --- | --- | --- | --- |
| **SL.NO.** | **TITLE** | **NAME OF CONFERENCE** | **VENUE,****MONTH /****YEAR** |
|  | Biocompatible Fluorescent Tb:SrAl₂O₄ Nanoparticles for In Vivo Bioimaging: A Non-Toxic, Staining-Free Probe for Plant-Based Biotechnology  | International Conference on Biotechnological Applications in Ayurveda and Biomedical Sciences (BAAB-2025) | 30 March-1stApril 2025 Mahayogi Gorakhnath Universisty Gorakhpur |
|  | Sustainable solar energy through nanostructured luminescent materials | International Conference onRecent Advances for Sustainable Development | December 13 and 14, 2024 |
|  | Sustainable materials in electronics: advantages and challenges in adopting eco-friendly solutions | Virtual International Conference On Role Of Science And Technology In Achieving Sustainable Development Goals | June 16 and 17, 2023 |
|  | Synthesis and Characterization of SrAl2O4: Eu orange-red emitting nanoparticles | 7th International Conference on Nanoscience and Nanotechnology (ICONN 2023), SRM IST, Chennai. | March 27-29, 2023 |
|  | Structural and optical studies of red light emitting Eu doped strontium aluminate nanoparticles | International Seminar onLuminescence Materials[ISLM-2022] | Alleppey, 9-10 December, 2022 |
|  | Structural and Linear Optical Properties of Blue light-emitting Sr3Al2O6 | 64th DAE Solid State Physics Symposium 2019 | IIT, Jodhpur, Rajasthan December 18—22, 2019 |

**ORIENTATION/REFRESHER COURSES ATTENDED**

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| **SL.NO** | **NAME OF THE PROGRAMME** | **NAME OF THE ORGANISER** | **MONTH/****YEAR** |
|  | Online Refresher Course (Multidisciplinary/Interdisciplinary Course) on “AI & Open Research Tools For Advancing Environmental Sustainability”  | MM-TTC : Ramanujan College, Delhi, in collaboration withSt. Joseph's College (autonomous) Irinjalakuda, Kerala  | 24 April, 2025 - 07 May, 2025  |
|  | Faculty Development Program onGenerative AI and Prompt Engineering | 360DigiTMG, India in association with Additional Skill Acquisition Programme Kerala (ASAP). | 9th Dec 2024 to 24th Dec 2024 |
|  | NEP 2020 Orientation & Sensitization Programme | Malaviya MissionTeacher Training Centre, University of Mumbai | 1 8 t h N o v e m b e r to 28th November, 2024. |
|  | Orientation Course | UGC-Human Resource Development Centre University of Calicut, Calicut | 20 Days(06/01/2020 to 25/01/2020) |
|  | Refresher Course/ MOOC- SWAYAM ARPIT Online Course for CAS Promotion- “X RAY Crystallography” | Indian Institute of Science, Bangalore | 16/02/2020 |
|  | Two Week National Workshop on “Online and Blended Learning” | SNDT Women’s University, Teaching Learning Centre, PMMMNMTT-MHRD | 14 days(09/03/2020 to 21/03/2020) |

**SEMINARS/CONFERENCES/WORKSHOPS ATTENDED#**

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| **SL.NO** | **NAME OF THE PROGRAMME** | **NAME OF THE ORGANISER&****SPONSORING AGENCY** | **VENUE &****DATE** | **LEVEL \*** |
|  | International ConferenceonBiotechnological Applications in Ayurveda and Biomedical Sciences(BAAB-2025) | Society of Biotechnologists India (SBTI), & Mahayogi Gorakhnath Universisty Gorakhpur  | Mahayogi Gorakhnath Universisty Gorakhpur 30th March-1stApril 2025  | International |
|  | International Conference onRecent Advances for Sustainable Development | Newman College, Thodupuzha, | 13 to 14 December 2024 | International |
|  | Virtual International Conference On Role Of Science And Technology In Achieving Sustainable Development Goals | Department of Botany & Biotechnology, Newman College, Thodupuzha, KeralaDepartment of Zoology, CMS College, Kottayam, Kerala&CSP AlumniIn association with Mahatma Gandhi University, Kerala | June 16 and 17, 2023 | International |
|  | 7thInternational Conference onNanoscience and Nanotechnology (ICONN-2023)(Virtual Conference)March 27-29, 2023 | The Department of Physics and NanotechnologySRM Institute of Science and Technology, Kattankulathur | March 27-29, 2023 | International |
|  | International Seminar on Luminescence Materials | Luminescence Society of India, Department of Physics, All Saints' College, Thiruvananthapuram, Mahatma Gandhi College,Thiruvananthapuram, Sanatana Dharma College, Alappuzha, Department of Nanoscience & Nanotechnology,University of Kerala | 9-10 December, 2022, Alappuzha | International |
|  | 8-Day Online Hands-on training on Rietveld Refinement of PowderXRD Data Using FullProf, GSAS and JANA | PSMO College,Kerala in Association with SIAS Research Forum | 24 -31 July 2021 | International |
|  | Innovation Ambassador training | MoE's Innovation Cell & AICTE | 30th June-30th July 2021 | National |
|  | National Workshop on ICT Tools for Online Learning | SNDT Women’s University, Teaching Learning Centre, PMMMNMTT-MHRD | 20-28 April, 2020 | National |
|  | National Seminar in Condensed Matter Physics | Union Christian College, Aluva, DST & DBT | 25-27 February 2020 | National |
|  | Workshop on Condensed matter and Material Science | KSCSTE-Srinivasa Ramanujan Institute of Basic Sciences& Center for Materials for Electronics Technology | Center for Materials for Electronics Technology(CME) , Thrissur, 20-22 September | National  |
|  | Two-day National Workshop on Electronic Experiments | Union Christian College, Aluva, Academy of Physics Teachers, Kerala  | 19-20 May 2018 | State  |
|  | Two days Workshop on Nanomaterials and Nanocomposites | Morning Star Home Science College, Angamaly , IIT Kharagpur event | 29-30 January 2018 | National |
|  | Second International Conference on Material Science and Technology | Department of Physics, St. Thomas College, Palai, Kottayam  | 5-8 June 2016 | International |
|  | International Conference on “Envision:A Holistic View on Empowering Women” | M G university, Department of Life Long Learning and Extension & NSS, St. Xaviers College for Women, Aluva | 15-16 November 2016 | International |
|  | One Day Capacity Building Cluster Workshop  | Office of the new Initiatives in Higher Education | 16 January 2017 | State |

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| **PROFESSIONAL AFFILIATIONS/MEMBERSHIPS**  |
| * Life Member of Indian Association of Physics Teachers
* Life Member of Academy of Physics Teachers(APT), Kerala
* Life Member Society for Biotechnologists , India
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| **POSITIONS HELD IN COLLEGE** |
| * Head of the Department(2024-
* Institution’s Innovation Council(IIC ) Convener(2023-)
* Talent Accelerator Programme Mentor(2024-
* Star Entrepreneur center coordinator(2024-
* Save a star Coordinator(2025-
* NSS Programme Officer (2015-2018)
* B.Voc Nodal Officer(2018)
* IEDC Nodal Officer (2020-2022
* College Magazine -Staff Editor (2019-20)
* College Union Advisor (2021-2022)
* Staff Association Secretary (2022-2023)
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