



Name : Dr. P. Evangelin Teresa
Designation : Assistant professor
Department : Physics
Date of Birth : 19.10.1997
Date of Appointment : 01.07.2025

CONTACT DETAILS

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Area of Specialization : Luminescence Glasses

Google scholar citation link : <https://scholar.google.com/citations?user=nGY0BFkAAAAJ&hl=en&authuser=2>

Citations: 316

h-index :9

i10-index:9

Academic Qualification

S. No.	Degree	University / Institution	Year of Completion
1.	B. Sc.	Holy Cross College, Bharathidasan University	2017
2.	M. Sc.	Seethalakshmi Ramaswami College, Bharathidasan University	2019
3.	Ph. D	The Gandhigram Rural Institute- Deemed to be University	2023

Projects Completed

S. No	Degree	Project title	Research Supervisor
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1	B. Sc	Fabrication Of Solar Cell using Copper and Cuprous oxide Electrodes with Sodium Chloride Electrolyte.	Professor. Dr. A. Juliat Josephine, HCC
2	M. Sc	Growth, Spectral, Dielectric and Antibacterial studies on Dye doped Rochelle Salt crystal using SEST method.	Professor. Dr. M. Sornambal, SRC
3	Ph. D	Structural, Spectroscopic and Radiation Shielding investigations on Rare Earth (Dy^{3+} , Eu^{3+} and Sm^{3+}) doped Boro-Tellurite glasses	Professor. Dr. K. Marimuthu GRI-DU

Experience in teaching and Research

- Teaching Experience: 1 Year
- Research Experience: 5 Years

Professional Affiliation:

- Member in “Indian Laser Association” (Membership no: SM338)
- Member of IQAC (2023-2024 at Auxilium College of Arts and Science for Women, Pudukkottai)
- Organizing Secretary of 2nd International conference “SCIENCE CONCLAVE 2024-Hybrid” conducted by Auxilium College of Arts and Science for Women, Pudukkottai during 12-14 of December 2024.
- Served as a Reviewer in International Journals: Journal of Inorganic and Organometallic Polymers and Materials- Springer Nature, Journal of Physics and Chemistry of Solids- Elsevier, Journal of Radiation Physics and Chemistry- Elsevier, Journal of Scientific Reports- Springer Nature, Optical and Quantum Electronics- Springer Nature, Journal of Fluorescence- Springer Nature, Plasmonics- Springer Nature, Optik- Elsevier, Physica Scripta- IOPScience, Materials Research Express- IOPScience.

Fellowship and Awards

- GRI fellowship under the Educational Assistance Scheme, GRI, Dindigul.
- Best Poster Presentation Award (MSMHESD-2023), SIMATS, Chennai.
- Best Paper Presentation Award (ISRTMES-2017), SRC, Trichy.

Internships/ Research Training

- Completed a short-term Research training on “Materials Synthesis and

Characterization Techniques” Organized by Shri Shivaji Science College, Amaravati- affiliated to Sant Gadge Baba Amaravati University, Amaravati, Maharashtra-444602 during Dec 2019.

Faculty development Program, National/ International Webinars, Workshops and Symposiums attended

- ❖ Participated in the Five-Day International Virtual Faculty Development Programme (IVFDP) on “Harnessing Generative AI: Smart Tools for Teaching, Learning, Evaluation & Research (TLE & R)” organized by St. Joseph’s College during 7-11 of July 2025.
- ❖ Participated in one week Faculty Development Program on “Microsoft Power BI Data Analyst Associate” organized by GTN College (Autonomous), Dindigul, during 16-20 of June 2025.
- ❖ Participated in the Five-Day National Level Online Faculty Development Program on “Advancing Scientific Knowledge (NLOFDPASK-2025)” organized by Sacred Heart College (Autonomous), Tirupattur, during 24-28 of March 2025.
- ❖ Participated in International workshop on “Innovations in Precision Optics & Nanomaterials for Photonics” organized by Jamal Mohamed College, Trichy during 19-20 of February 2025.
- ❖ Participated in a National Level Virtual FDP entitled “SET@360- Skill Enhancement Program for Teachers” organized by IQAC of SMCE & SVCAS held from 2-6 September 2024.
- ❖ Participated in a “National Skill India Program on Advanced Materials for Next Generation Devices” organized by SRM Institute of Science and Technology with CSIR-AMPRI, Bhopal on 30 of July 2021.
- ❖ Participated in an “International Webinar on Advanced Materials- IWAM 2021” organized by St. Joseph’s College during 3-4 of March 2021.
- ❖ Participated in an “International Web Conference on Advanced Materials Science and Engineering” organized by Bannari Institute of Technology during 11-12 of September 2020.
- ❖ Participated in the Two Days International Web Symposium on “Nonlinear Systems and its Applications” Organized by SRM Institute of Science and Technology during 11-12 of September 2020.
- ❖ Participated in a “National Skill India Program on Materials Synthesis and Products for Self Reliant India” jointly organized by Organized by SRM Institute of Science

and Technology with CSIR-AMPRI, Bhopal under CSIR-Jigyasa Program on 28 of August 2020.

- ❖ Participated in a “National seminar on Applications of Vibrational Spectroscopy” organized by Organized by SRM Institute of Science and Technology on 29 of August 2020.
- ❖ Participated in the Two-Week Faculty Development Programme on “Advances in Computational and Experimental Research in Physics” Organized by SRM Institute of Science and Technology during 27 July-8 August 2020.
- ❖ Participated and successfully cleared an international level quiz on “e-Learning Skills: A Cognitive Learning Quiz” organized by Kongu Arts and Science College during 14-20 of August 2020.
- ❖ Participated in an International webinar on “Technology for Exploration of the Inner Space” organized by SRM Institute of Science and Technology on 11 of July 2020.
- ❖ Participated in a National webinar on “Synthesis and Characterization of Novel Materials” organized by Muthurangam Government Arts and Science College during 6-7 of July 2020.
- ❖ Participated in an International webinar on “Passive and Active Hyperbolic Metamaterials and their Applications” organized by SRM Institute of Science and Technology on 26 of May 2020.
- ❖ Participated in a National Webinar Series on “Research Methodology” organized by Loyola College during 12-13 of June 2020.
- ❖ Participated and successfully cleared the “E-Quiz on Nature and Environmental” organized by National Service Scheme of Holy Cross College on 18 of June 2020.
- ❖ Participated and cleared the “Media quiz 2020” organized by Holy Cross College during 30 May-1 of June 2020.
- ❖ Participated in an “International webinar on Recent Advances in Materials Science and Nanotechnology” organized by Bannari Amman Institute of Technology during 4-6 of June 2020.
- ❖ Participated in an “International webinar on Materials for energy, Environmental and Healthcare Applications” organized by The Gandhigram Rural Institute- DTBU during 21-22 of May 2020.
- ❖ Participated in a national webinar on “Micro, Nano and Atomic Scale Approaches in Electronic Applications” organized by Erode Arts and Science College on 21 of May 2020.

- ❖ Participated in National workshop on “Advanced Materials and their Applications (NWAMA-2020)” organized by Department of Physics, The Gandhigram Rural Institute-DTBU, Gandhigram during 3-4 of Feb 2020.
- ❖ Participated in “Workshop on Laptop Servicing” organized by the Department of Physics and Department of Electronics, Seethalakshmi Ramaswami College, Trichy on 10 of Aug 2017.
- ❖ Participated in “Internet of Things Workshop” organized by the Department of Physics, Seethalakshmi Ramaswami College, Trichy in collaboration with Robokart & Innovation-Cell UMIC, IIT Bombay during 8-9 of Dec 2017.
- ❖ Participated in the “International Conference on Advances in Materials Science” (ICAMS-2017) organized by the Department of Physics, Holy Cross College, Trichy during 6-7 of Jan 2017.
- ❖ Participated in “National Robotics Championship” organized by ARK Technosolutions & Robokart in association with AMALGAM, IIT Madras at the official zone centre ‘Holy Cross College’ during 25-26 of Nov 2015.

Papers presented in conference/workshops/seminars

1. *Growth, spectral, dielectric and antimicrobial studies on dye doped rochelle salt crystal*
International Conference on Recent Advances in Materials Science (ICRAMS-2019) held at National College, Tiruchirappalli during 4-6 of February 2019.
2. *Synthesis, structural and luminescence studies on Dy³⁺ ions doped boro-tellurite glasses for white light applications*
National Webinar cum Workshop on Luminescence Applications and Materials held at SSN College of Engineering, Kalavakkam in collaboration with Luminescence Society of India on 25 of June 2021.
3. *Spectroscopic properties and radiation shielding analyses of europium doped multi former glasses*
International Conference on Functional Glasses/ Glass-Ceramics held at Centre for Electronics Technology (C-MET), Pune in Association with Materials Research Society of India (MRSI) during 24-25 of November 2022.
4. *Investigation on physical, structural and spectroscopic properties of samarium ions doped multi former glasses for photonic applications*
National Conference on Recent Trends in Material Science and Engineering for

Medical, Healthcare, Energy and Sustainable Development (MSMHESD) held at Saveetha Institute of Medical and Technical Sciences (SIMATS), Thandalam during 28-29 of April 2023.

5. *Effect of Dysprosium concentration on the structural and luminescence properties of Dy³⁺ doped boro-tellurite glasses for white light application*

International Conference on Exploring the Trends and Innovations in Material Science (ICETIMS-2025) held at Sacred Heart College, Tiruppattur, Vellore on 27th February 2025.

6. *Exploration on the luminescence behavior of modifier dependent Dy³⁺ activated boro-tellurite glasses for white light applications*

International Conference on “New Ideas in Technology & Innovations” organized by institution’s innovation council of Cauvery College for Women, Trichy jointly with CSIR-IMMT, during February 18-19, 2025.

Papers published in International Journals

1. **P. Evangelin Teresa**, K.A. Naseer, K. Marimuthu, H. Alavian, M.I. Sayyed, Influence of modifiers on the physical, structural, elastic and radiation shielding competence of Dy³⁺ ions doped Alkali boro-tellurite glasses, Radiat. Phys. Chem. 189 (2021), 109741.
2. **P. Evangelin Teresa**, K.A. Naseer, T. Piotrowski, K. Marimuthu, D.A. Aloraini, A. H. Almuqrin, M.I. Sayyed, Optical properties and radiation shielding studies of europium doped modifier reliant multi former glasses, Optik 247 (2021) 168005.
3. **P. Evangelin Teresa**, K. Marimuthu, Structural and spectroscopic analyses on the multi former glasses developed with Eu³⁺ ions in favor of red laser gain medium applications, Opt. Mater. 122 (2021), 111704.
4. **P. Evangelin Teresa**, R. Divina, K.A. Naseer, K. Marimuthu, Study on the luminescence behavior of Dy³⁺ ions activated, modifier dependent alkali boro-tellurite glasses for white LED application, Optik 259 (2021) 169024.
5. **P. Evangelin Teresa**, K.A. Naseer, Ranjib Kumar Padhi, E. El Shiekh, K. Marimuthu, A comparative analysis on the spectroscopic qualities of modifiers and Sm³⁺ ions integrated bismuth boro-tellurite glasses for visible orange appliances, Opt. Mater. 143 (2023) 114272.
6. R. Divina, **P. Evangelin Teresa**, K. Marimuthu, Dy³⁺ ion as optical probe to study the luminescence behavior of Alkali lead bismuth borate glasses for w-LED application, J. Alloys. Compd. 883 (2021) 160845.

7. S. Arunkumar, **P. Evangelin Teresa**, K. Marimuthu a, S.A. Bassam, D. James Silvia, Shams A.M. Issa, Ghada Almisned, H.O. Tekin, Mohammed S. Alqahtani, El Sayed Yousef, Scrutinizing the physical, structural, elastic, optical and gamma ray shielding properties of Samarium ions infused Niobium Bariumtelluroborate glasses, *Radiat. Phys. Chem.* 202 (2023) 110510.
8. S. Karthika, K. Marimuthu, **P. Evangelin Teresa**, RC. Meena, I. Sulania, K. Asokan, S. Shanmuga Sundari, Gamma irradiation-induced changes in the structural, optical, electrical and radiation shielding properties of lithium borate glasses, *Radiat. Phys. Chem.* 202 (2023) 110560.
9. S.A. Bassam, K.A. Naseer, V.K. Keerthana, **P. Evangelin Teresa**, C.S. Suchand Sangeeth, K.A. Mahmoud, M.I. Sayyed, Mohammed S. Alqahtani, E. El Shiekh, Mayeen Uddin Khandaker, Physical, structural, elastic and optical investigations on Dy^{3+} ions doped boro-tellurite glasses for radiation attenuation application, *Radiat. Phys. Chem.* 206 (2023) 110798.
10. S. Karthika, K. Asokan, K. Marimuthu, **P. Evangelin Teresa**, A. Durairajan, M. A. Valente, S. Shanmuga Sundari, Structural and optical properties of lithium borate glasses under extreme conditions of ion irradiation, *Phys. Scr.* 98 (2023) 085907.
11. **P. Evangelin Teresa**, M. Sornambol, S. Gowri, J. Aarthi, M. Navina, Growth, spectral, dielectric, magnetic and antimicrobial studies on dye doped rochelle salt crystal, *Results. Mater.* 6 (2020) 10095.
12. M.K. Komal Poojha, K. Marimuthu, **P. Evangelin Teresa**, Nouf Almousa, M.I. Sayyed, Role of modifiers on the structural, mechanical, optical and radiation protection attributes of Eu^{3+} incorporated multi constituent glasses, *Nucl. Eng. Technol.* 54 (2022) 3841–3848.
13. M. Navina, M. Sornambol, S. Gowri, J. Aarthi, **P. Evangelin Teresa**, Growth and Characterization Studies on Nicotinic Acid Doped Kdp Crystals, *IJSRPAS.* 7 (2019) 156–166.

Papers published in conference proceedings

1. P. Evangelin Teresa, Investigation on Synthesis, Physical, Structural and Spectroscopic Features of $Pr^{3+}:Yb^{3+}$ co-doped Alkali Borate Glasses for Photonic Applications, *AIJR Proceedings*, (2024), ISSN: 2582-3922. <https://doi.org/10.21467/proceedings.173.22>