

**NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE  
KALIYAKKAVILAI**

**FACULTY PROFILE**



|   |   |                         |  |
|---|---|-------------------------|--|
| Name  | Dr. T.R. Jeena  |                         |  |
| Date of Birth   | 19-05-1988  |                         |  |
| Department  | Physics   |                         |  |
| Designation   | Assistant Professor   |                         |  |
| Address   | Chundail Veedu<br>Panamugam<br>S.T.Mankad (P.O)<br>Kanyakumari District |                         |  |
| Telephone Number(s)   | 8015769772  |                         |  |
| Email Id(s)   | trjeena2011@gmail.com   |                         |  |
| Academic Qualifications (with Name of Degree awarding university) | M.Sc., Ph.D/Manonmaniam Sundaranar University, Tirunelveli              |                         |  |
| Teaching Experience   | <b>Level</b>  | <b>Years of Service</b> | <b>Institution</b>   |
|   | UG  | 4 months                | Annai Velankanni College, Tholayavattam                      |
|   |   | 7 years 5 months        | Nanjil Catholic College of Arts and Science , Kaliyakkavilai |
|   | PG  | 7 years 5 months        | Nanjil Catholic College of Arts and Science , Kaliyakkavilai |
|   | UG & PG   | 7 years 5 months        | Nanjil Catholic College of Arts and Science , Kaliyakkavilai |
| Specialization  | Nanotechnology  |                         |  |
| Publications/ Participation in Seminars/ Conferences etc          |   | <b>International</b>    | <b>National</b>  |
|   | No. of Research Papers in Journals                                      | 7                       | -  |
|   | No. of Publications in Conference Proceedings                           | 1                       | 12   |

|                                 |                                    |                  |    |
|---------------------------------|------------------------------------|------------------|----|
|                                 | No. of Conferences Participated in | 1                | 12 |
|                                 | Books                              | -                | -  |
| Projects                        | -                                  |                  |    |
| Details of Research Supervision | <b>On going</b>                    | <b>Completed</b> |    |
|                                 |                                    |                  |    |
| Honours and Awards              | -                                  |                  |    |
| Posts held                      | -                                  |                  |    |
| Any other Information           | -                                  |                  |    |

List of Publications:

1. T.R. Jeena, A. Moses Ezhil Raj, M. Bououdina, 'SYNTHESIS AND PHOTOLUMINESCENT CHARACTERISTICS OF Dy<sup>3+</sup> DOPED Gd<sub>2</sub>O<sub>3</sub> PHOSPHORS', Materials Research Express, 4 (2017) 025019.
2. T.R. Jeena, A. Moses Ezhil Raj, M. Bououdina, 'EFFECT OF FUELS ON THE AUTOCOMBUSTION REACTION SYNTHESIS OF NANOCRYSTALLINE GADOLINIUM SESQUIOXIDE (Gd<sub>2</sub>O<sub>3</sub>) POWDER: EVALUATION OF STRUCTURE, MORPHOLOGY, OPTICAL AND ELECTRICAL PROPERTIES', Journal of Australian Ceramic Society, 54 (2017) 279.
3. T.R. Jeena, A. Moses Ezhil Raj, M. Bououdina, "RARE EARTH Yb<sup>3+</sup> DOPED Gd<sub>2</sub>O<sub>3</sub> SINGLE PHASE NANOPHOSPHORS: STRUCTURAL, MORPHOLOGICAL AND PHOTOLUMINESCENCE STUDIES", Journal of Nanomaterials and Molecular Nanotechnology, 7(3) (2018), ISSN No.: 2324- 8777.
4. M. S. Arul Divya Mary, T.R.Jeena, "SYNTHESIS AND CHARACTERIZATION OF PURE AND Cu<sup>2+</sup> DOPED ZINC OXIDE NANOPARTICLES USING SOL-GEL METHOD", International Journal of Science and Research, 8(3) (2019) 1246 - 1248, ISSN No.: 2319-7064.
5. S. Antony Dominic Christopher, T.R. Jeena, "NON LINEAR OPTICAL PROPERTIES OF A DYE DOPED L-THREONINE SINGLE CRYSTALS", Eur. Chem. Bull., 10(4) (2021) 460-468.
6. T.R. Jeena, "FACILE FABRICATION OF GREEN EMITTING Tm<sup>3+</sup> DOPED Gd<sub>2</sub>O<sub>3</sub> NANOPARTICLES", Neuroquantology, 19 (10) (2021) 358-374.

7. T.R. Jeena, "ENHANCEMENT OF STRUCTURAL AND FUNCTIONAL PROPERTIES OF AL<sub>2</sub>O<sub>3</sub> NANOPARTICLES THROUGH MAGNESIUM, ZINC AND IRON DOPING FOR ADVANCED TECHNOLOGICAL APPLICATIONS", Applied Physics A (2026) (Accepted).