



# Prabha Jyothi P S

Assistant Professor of Physics

## ADDRESS & EMAIL:

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## QUALIFICATION:

MSc, MPhil, PhD

## DATE OF JOINING:

19/10/2012

## EXPERIENCE IN YEARS:

10-11years

## AREA OF SPECIALIZATION

Nanoscience

## ADMINISTRATIVE DISTINCTION

- Website Renovation Committee Member
- College Union Election Committee Member
- Environment club Co-ordinator
- NSQF Programme Member
- IQAC Member

## PAPER PRESENTATIONS:

- International conference on Advanced nanostructures held at Catholicate college, Pathanamthitta on March 2018
- International Symposium on Advanced Functional Materials held at Mar Ivanios, Thiruvananthapuram on October 2018
- 31st Kerala science congress, Fatima Mata National College, Kollam, 2-3 February 2019.
- International conference on Advanced materials [ICAM-2019], Department of Physics, Nirmalagiri College, Kannur, 12-14 June 2019.
- National conference in Nanomaterials & Nanotechnology, Department of Physics, Mar Thoma college, Tiruvalla on 6-7 August 2019
- International conference on Microelectronics, Signals & Systems held at TKM college of Engineering, Kollam, 28-29 September 2019.

- National conference on Green approaches towards chemical synthesis, St. Gregorious college, Kottarakkara November 2019
- International conference on Energy and Environment [ICEE2K19], TKM college of Arts and Science, 12-14 December 2019.
- International Conference on Materials - Properties, Measurements and Applications [ICMPMA 2022], Fatima College, 9-13 May 2022.

## RESEARCH OUTPUT

- DNA assisted synthesis of nanoceria, its size dependent structural and optical properties for optoelectronic applications, Prabha Jyothi P S, Anitha B and Nisha J Tharayil, *Bulletin of Material science* 43, 119 (2020). <https://doi.org/10.1007/s12034-020-02102-w>
- Crystal plane effect on antioxidant efficacy of nanoceria synthesized with assistance of DNA, Prabha Jyothi P S and Nisha J Tharayil, *Journal of Physics and Chemistry of Solids*, 141(2020)109421, <https://doi.org/10.1016/j.jpics.2020.109>
- Investigation on the size dependent optical and magnetic properties of DNA Assisted Synthesized nanoceria for next generation spintronic devices, Prabha Jyothi P S, Anitha B and Nisha J Tharayil, *AIP conference Proceedings* 2162(1):020125 · October 2019, doi: 10.1063/1.5130335
- Biosynthesis of nanostructured ceria, its optical and magnetic studies for spintronic applications, Prabha Jyothi P S and Nisha J Tharayil, *AIP conference Proceedings* 2222, 020006(2020) ; <https://doi.org/10.1063/5.0003964>
- Optical and Thermal studies of Polymer Nanocomposites, Anitha B, Prabha Jyothi P S and Nisha J Tharayil, *AIP conference Proceedings* 2162(1):020024 October 2019, doi:10.1063/1.5130234
- The antimicrobial efficacy of biosynthesized nanostructured ceria, PS Prabha Jyothi, B Anitha, Nisha J Tharayil, *International Journal of Materials Research* 112 (12), 985-989, <https://doi.org/10.1515/ijmr-2020-7853>
- Cyto-toxic Effect of Nano Ceria bio fabricated with DNA, PSP Jyothi, NJ Tharayil, *IOP Conference Series: Materials Science and Engineering* 1263 (1), 012032, <https://doi.org/10.1088/1757-899X/1263/1/012032>

## MEMBERSHIP IN PROFESSIONAL BODIES

- Academy of Physics Teachers (APT) member

