



Prabha Jyothi P S

Assistant Professor of Physics

ADDRESS & EMAIL:

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QUALIFICATION:

MSc, MPhil

DATE OF JOINING:

19/10/2012

EXPERIENCE IN YEARS:

7-8years

AREA OF SPECIALIZATION

Nanoscience

ADMINISTRATIVE DISTINCTION

- Website Renovation Committee Member
- College Union Election Committee Member
- Nodal Officer, Gain PF
- NSQF Programme Member
- CLMC 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.

PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS

- State level Lecture workshop on electron microscopy and its applications by Department of Physics and SICCC, University of Kerala, 20-21 February, 2018
- UGC sponsored National Seminar on ‘Frontline Approaches in Material Science and computational Chemistry’ [MATCOM-2018], Dept. Of Chemistry, SNCW, Kollam, 14-16 March 2018.
- FDP on ‘Advanced concepts for developing MOOCS’ by Teaching Learning Centre, Ramanujan College, University of Delhi sponsored by MHRD, PMMNM on Teachers & Teaching from July 02, 2020 to July 17, 2020.
- Short term FDP on ‘Towards a digital era of Teaching & Learning’ organized by UGC-HRDC in collaboration with KSMDDB College, Sasthamcotta from August 12 -18, 2020
- One Week Online FDP on ‘Research Ethics & Characterization, Techniques in Materials Science’ during 9-15 September 2020 organized by Bishop Moore College Mavelikara in association with St. John College Agra and Guru Angad Dev Teaching Learning Centre of MHRD, PMMMNMTT (SGTB Khalsa College, Delhi University).

PUBLICATIONS IN BOOKS OR JOURNALS

- 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.2020.109421>

- 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

MEMBERSHIP IN PROFESSIONAL BODIES

- Academy of Physics Teachers (APT) member

RESEARCH OUTPUT

- Synthesized nanomaterials of very low dimension for various applications