



Dr. Smitha S

Assistant Professor of Physics

ADDRESS & EMAIL

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QUALIFICATION

MSc, BEd, NET,Phd

DATE OF JOINING

18/10/2012

EXPERIENCE IN YEARS

11yrs

AREA OF SPECIALIZATION

Nano materials

ADMINISTRATIVE DISTINCTION

- NSS program Officer (2014-2016)
- PTA Executive Committee member(2013-2016)
- College union election committee member
- Mentor of SSP
- Mentor of WWS
- Senior Assistant Superintendent of Examinations(2022-2024)
- Member of women's study unit

PAPER PRESENTATIONS

1.31st Kerala science congress, Fatima Mata National College, Kollam, 2-3 February2019.

2. International conference on Advanced materials [ICAM-2019], Department of Physics, Nirmalagiri College, Kannur, 12-14 June2019.

3. Presented a Research paper in the International Seminar on 'Supra and Nano Chemistry of Bio Active Molecules-SANCBAM-2019' cosponsored by KSCSTE organized by the Department of Chemistry, Christian College Kattakada, TVM.

4. Presented a Research paper in the International Conference on ‘Physics of Materials & Nanotechnology-(ICPN-2019) held at Department of Studies In Physics, Mangalore University, Mangalore.
5. International conference on Energy and Environment [ICEE2K19], TKM college of Arts and Science, 12-14 December 2019.
6. Presented a paper entitled “Cytotoxic and Anticancer activity of Mixed metal oxide FeO: MnO Nanostructures” in the 2022 International Conference on Recent Advances in Engineering Materials (ICRAEM 2022) held at Alva’s Institute of Engineering & Technology, Moodbidri, Karnataka, India during 03 - 05, March 2022.
7. Presented a paper entitled “Temperature dependent micro strain analysis of Lanthanum Oxide nanoparticle using Williamson-Hall and Size-Strain Plot methods” in the 2022 International Conference on Recent Advances in Engineering Materials (ICRAEM 2022) held at, Moodbidri, Karnataka, India Alva’s Institute of Engineering & Technology during 03 - 05, March 2022.

PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS

- International conference on advanced nanostructures [ICAN-2018], Department of Physics, Catholicate College, Pathanamthitta, 12-14 March 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.
- International symposium on advanced functional materials [ISAFM 2018], Dept. of Chemistry, Mar Ivanios College, Thiruvananthapuram, 12 October 2018

PUBLICATIONS IN BOOKS OR JOURNALS

- Synthesis and Characterization of FeO-MnO Magnetic Nanoparticles in Vitro Antioxidant and Antibacterial Studies- AIP Conference Proceedings 2162, 020155 (2019); <https://doi.org/10.1063/1.5130365>.
- Band gap shrinkage in hematite with Mn addition: A visible-light active nano material in renewable energy device applications AIP Conference Proceedings 2244, 070032.

MEMBERSHIP IN PROFESSIONAL BODIES

- APT

RESEARCH OUTPUT

- Developed a visible-light active nano material in renewable energy device applications
- Developed mixed nanostructures for medical and Environmental protection applications