



Dr. Nisha J. Tharayil

Principal

ADDRESS & EMAIL

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QUALIFICATION

MSc, Mphil, BEd, PhD

DATE OF JOINING

08-12-1995

EXPERIENCE IN YEARS

25 years

AREA OF SPECIALIZATION

Nanoscience and Nanotechnology

ADMINISTRATIVE DISTINCTION

- Principal, S N Colleges
- IQAC Coordinator
- NAAC Coordinator
- Research Committee Convenor
- Nodal Officer of Scholarship
- Chief Superintendent of Examination
- Nodal Officer of Examination, University Of Kerala
- Question Paper Setter of Calicut and MG University
- PG Examination Chairman
- Admission Committee Convenor
- Planning Board Convenor
- Head of the Department
- Convenor of Discipline Committee
- Convenor Of NAAC Sponsored National Seminar
- Life Time Member of Apt
- Guideship in Physics from Kerala University
- Attended State Programme In IIT Madras
- Coordinator Of UGC Sponsored National Seminar Bio Nano Photonics
- Produced Three Phd'S
- Submitted Five Thesis
- Papers Published in Care Listed Journals
- Resource Person in FMNC and TKMM Colleges
- Reviewver of Papers in Kerala Science Congress

PAPER PRESENTATIONS

- Presented a paper at the International Conference on Nano Science and Nanotechnology, University Department on “Characterisation of nanoparticles of ZnO”
- Presented a paper at the National Seminar on Spectroscopic techniques present scenario at various Affiliated Colleges t on “Photoluminescence of Nanoparticles”
- Presented a paper at the National Conference on Current trends in materials science at various Affiliated Colleges on “Structural Characterisation of Co-Mn Oxide nanoparticles”
- Presented a paper at the National Seminar on applications of advanced nano materials at various Affiliated Colleges on “Low temperature Dc Conductivity of nano particles of Co-Mn Spinel Oxide”
- Presented a paper at the National Seminar on recent trends in Bio nano photonics at various Affiliated Colleges on “DNA Assisted synthesis of ZnO Nano particles”
- Presented a paper at the Second international conference on Nano materials - Synthesis, Characterisation and Applications, University Department on “Antibacterial activity of ZnO nano particles”
- Presented a paper at the Second international Conference on Materials Scienc and Technology, at various Affiliated Colleges on “Synthesis, Characterisation and Antibacterial activities of Sno2 nano particles using biological molecule”
- Presented a paper at the National Seminar on Smart Materials for a smarter world, at various Affiliated Colleges on “Chemical Synthesis and effect of annealing on the structured and optical properties of nano ZnO”

PUBLICATIONS IN BOOKS OR JOURNALS

- Chapter on “Dielectric Studies of Nano -Crystalline Nickel - cobalt Oxide” in Physica B - Condensed Matter. Pg 1-8.
- Chapter on “Chemical Synthesis of nano particles of Nickel-Cobalt Oxide” in Material Science Research India. Pg 69-75.
- Chapter on “Synthesis and characterisation of nano sized cobalt - manganese spinel Oxide” in Indian Journal of Pure and Applied Physics. Pg 47-53

- Chapter on “Optical, Electrical and structural studies of nickel - cobalt oxide nanoparticles” in Indian Journal of engineering and material science. Pg 489-496
- Chapter on “A comparative study of bronsted acidity of tin phosphate and chromotropic acid anchored tin phosphate” in Oriental journal of Chemistry. Pg 635-640
- Chapter on “[Cu(NH₃)₄]²⁺ SnP as a catalyst” in Indian Journal of Chemical technology. Pg 188-191
- Chapter on “Synthesis, Characterisation and antimicrobial activity of nanosized hematite (Fe₂O₃) using bio and organic templates” in International Journal of Nano and Biomaterials. Pg 127-136
- Chapter on “Proton transport properties of tin phosphate, chromo tropic acid anchored onto tin phosphate and tin phenyl phosponate” in Bulletin of material science. Pg 129-133.
- Chapter on “DNA assisted synthesis of chitosan - Fe₂O₃ Nano Composites for antioxidant and antimicrobial activities” in Bulletin of material science.
- Chapter on “Synthesis, Charecterisation and anti bacterial activities of pure and Ag.doped Sno₂ nanoparticles” in Materials Today. Pg 4351-57.
- Chapter on “Dielectric properties and conductivity of (ZnO/cdo) Mixed Oxide Nano Composite” in Ferroelectrics. Pg 144-155.
- Chapter on “Preparation,characterisation and antioxidant activities of tin oxide nanoparticles” in Journal of experimental nanoscience. Pg 462-468. Photoluminescence and uv absorption studies of ZnO/CdO nanocomposite 22087-91.
- Chapter on “Photocatalytic degradation of methyl orange using biologically enhanced tin oxide nano particles under UV - irradiation” in Journal of Material Science: Materials Electronics.
- “The effect of Firing temperature and Molarity on the structural nad electrical properties of Nano particles of Nickel-Cobalt Oxide” in Eco Chronicle DNA assisted synthesis, Characterization and optical properties of Zinc Oxide Nano particles in International Journal of Material Science and Engineering
- “Chemical Synthesis and effect of annealing on structural and optical properties of nano magnesium oxide” at the International Conference on Materials Processing and characterisation.

- “Effect of annealing on optical and anti microbial properties of Zinc oxide nano particles” on Nano science and Nano technology – an Indian Journal
- “Chemically synthesized nano composite (Zinc/Magnesium) oxide for tunable band gap devices” on International conference on Material Science and Technology

PROJECTS UNDERTAKEN

S.No.	Title	Agency	Period	Grant/ Amount Mobilized (Rs.Lakh)
1	Synthesis of Nano structures using Bio-molecules and its characterization	UGC	2013 - 2015	120000
2	Synthesis and characterization of sum Nano metal oxides	UGC	2009 - 2011	45000