

Dr. SHARMILA P. P.

Principal & Associate Professor of Physics

International Publications – 12

Conferences (International – 07) (National – 09)

<u>Citation indices</u>	<u>All</u>	<u>Since 2017</u>
Citations	33	29
h-index	03	03
i10-index	02	01



ADMINISTRATIVE DISTINCTION

- Research Committee Convenor 2016-17
- Chief Editor Iridescent Vision 2016-17
- IQAC Member 2016-17
- Planning and Purchase Committee member 2016-17
- Head of the Department 2017-18
- RUSA Co Ordinator 2017-18
- Chairman MSC(S2) university examinations 2017
- Chairman BSC(S6) university examinations 2017
- Chairman MSc S1 university examinations 2018
- Subject Expert in Selecting guest lectures at Christain College Chengannur 2017-18
- Subject Expert in Selecting guest lectures at Christain College Chengannur 2018-19
- Subject Expert in HSST Teachers PSC Pathanamthitta 2018-19
- Subject Expert Screening Committee for promotion of Govt College teacher at Govt College Ambalapuzha, 2018-19
- Principal in Charge of TKMM College Nangiarkulungara 1st July 2019- 2nd June 2020
- Principal MPMM SN Trusts College Shoranur – 3rd June 2020 - 9th September 2021
- Principal TKMM College Nangiarkulungara 10th September 2021 onwards



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QUALIFICATION

M.Sc., M.Phil., Ph.D.

DATE OF JOINING

13.09.1995

EXPERIENCE IN YEARS

27 years

AREA OF RESEARCH

Magnetic nanoparticles
Material Science,
Nanomaterials,
Optical Properties

AWARDS & ACHIEVEMENTS

- Awarded the prestigious UGC, Junior Research Fellowship (JRF) , Government of India in 1992. (Selected through an all India competitive examination - national fellowship for carrying out research)

INVITED TALK

- Science Day Seminar at Govt Vocational Higher Secondary School, Veeyapuram Harippad on Feb 28, 2017
- Ozone Day Celebration talk at Govt Vocational Higher Secondary School, Veeyapuram Harippad on September 16, 2016
- Science Day Seminar at Govt Vocational Higher Secondary School, Veeyapuram Harippad on Feb 28, 2019
- Invited talk at TKMM College Nangiarkulungara

PUBLICATIONS

1. Photoluminescence and UV absorption studies of ZnO/CdO nanocomposite P.P.Sharmila , Nisha.J.Tharayil in *Elixir Nanocomposite materials* (68) 2014 22087-22091
2. Synthesis and dielectric properties of zinc oxide nanoparticles using a biotemplate NJT Sharmila P P, AIP Conference Proceedings 1620 (<http://dx.doi.org/10.1063/1.4898282>) , 462
3. DNA Assisted Synthesis, Characterization and Optical Properties of Zinc Oxide Nanoparticles P.P.Sharmila , Nisha.J.Tharayil in *International Journal of Materials Science and Engineering Vol. 2, No. 2 2014*
4. Effect of annealing on optical and antimicrobial properties of Zinc oxide nanoparticles, P.P. Sharmila , Sagar S, Nisha.J.Tharayil in *Nanoscience and nanotechnology an Indian Journal* 8(8) 2014 312-319.
5. Chemically synthesized nano composite (Zinc/Magnesium) Oxide for tunable band gap devices; PP Sharmila, NJ Tharayil IOP Conference Series: Materials Science and Engineering 73 (1), 012019.
6. Proton transport properties of tin phosphate, chromotropic acid anchored onto tin phosphate and tin phenyl phosphonate Chithra Sumej,P.P.Sharmila, Nisha J Tharayil, S Suma, *Bulletin of Material science* February 2013,Volume 36 Issue 1pp 129-133.
7. Dielectric properties and conductivity of (ZnO/CdO) mixed oxide nanocomposite , P.P Sharmila,Rintu Sebastain, Sagar S, E M Muhammed,Nisha.J. Tharayil, *Ferroelectrics*, 474 (1), 144-155
8. Optical properties and dielectric relaxations in nanocomposite (ZnO/MgO) with composition and temperature,PP Sharmila, *Ferroelectrics* 571 (1), 129-138
9. Optical Properties and Conductivity Studies of Magnesium Oxide Nano Particles with Temperature and Composition Sharmila P P, *International Journal of Engineering Science and Computing(IJESC)* 10 (10) 27410-27415 IJESC [http:// ijesc.org/](http://ijesc.org/)
10. Changes in Dielectric Properties and Dispersion Parameters of ZnO with Surfactant and Temperature”, .PP Sharmila, *IJRESM*, vol. 3, no. 10, pp. 41–46, Oct. 2020, <https://doi.org/10.47607/ijresm.2020.332>
11. Dielectric Properties and Dispersion Parameters of Magnesium Oxide Nanoparticles with Temperature, Sharmila P P, *Elixir Materials Science* 148 (2020) 54942-54946 148 (148 (2020)), 54942-54946
12. Catalytical and Luminescence properties of MagnesiumOxide and its Composite, Sharmila P P, *International Journal of Scientific Research in Engineering and Management(IJSREM)* 4,Issue 10(2020),1-4

Papers presented in International Conferences

1. Dielectric studies of nano crystalline Cobalt –Manganese Oxide Sharmila.PP and Nisha. J.Tharayil. **Second international conference** on nanomaterials-synthesis, characterization and application held at Mahatma Gandhi University, Kottayam, keral during January 2012
2. Chemical synthesis and effect of annealing on structural and optical properties of nano magnesium oxide. Sharmila.PP and Nisha.J.Tharayil. **Annual International Conference on Material processing and characterization** held at Gokaraju Rangaraju Institute of Engineering and technology Hyderabad during March 2012
3. Hydro chemical synthesis and optical properties of nano zinc oxide Sharmila.PP and Nisha.J.Tharayil. **International conference on materials science and technology held at St.Thomas College, Pala** during june 2012.

4. Structural and optical characterization of doped and undoped nano zinc oxide Sharmila.P.P and Nisha.J.Tharayil. **International Conference on molecular spectroscopy of advanced materials and biomolecules held at Bishop Moore College, Mavelikara** during August 2012
5. Synthesis ,optical and structural characterization of (Zn-Cd)O nanocomposite, Sharmila.P.P, Nisha.J.Tharayil The India-Israel meeting on Material Science and nanoscience IMMN-2013 during 31 january -1 st February 2013
6. "Anti Bacterial activity of Doped and Undoped ZnO nanoparticles" Sharmila.P.P, Nisha.J.Tharayil. International Conference on construction materials ,Held at MG university during April 2013
7. Synthesis and dielectrical properties of Zinc oxide nanoparticles in a biotemplate International Conference in Optics held at NIT Calicut in Feb 2014

National Conferences

1. Synthesis and structural characterization of Zn/MgO nanocomposite . National seminar on Emerging trends in spectroscopy held at Marthoma College Thiruvalla during January 2012
2. Chemical synthesis and effect of annealing on the structural and optical properties of nano zinc oxide, Sharmila.P.P and Nisha.J.Tharayil , National seminar on Smart materials for a Smarter world held at S.B.College Changanassery during September 2012.
3. Structural characterization and conductivity studies of nano sized iron oxide for biological applications Malu Somaraj, Sharmila.P.P, Chithra.P.G and Nisha.J.Tharayil . National Seminar on Smart materials for a Smarter world held at S.B.College Changanassery during September 2012.
4. Structural Characterization and conductivity studies of Tin oxide thin film Nancy hon, Sharmila.P.P. Chithra.P.G and Nisha.J.Tharayil . National seminar on Smart materials for a Smarter world held at S.B.College Changanassery during September 2012.
5. Synthesis and characterization of nano iron oxide for biological applications Malu Somaraj,Sharmila.P.P. Chithra.P.G and Nisha.J.Tharayil . National seminar seminar on emerging nano science and its future in biology held at St.Aloisius College Edathua during August 2012.
6. Synthesis and structural characterization of a transparent conducting oxide thin film Nancy , Sharmila.P.P. Chithra.P.G and Nisha.J.Tharayil . National seminar on emerging nano science and its future in biology held at St.Aloisius College Edathua during August 2012
7. "Antimicrobial activity of (Zn-Mg)O nano composites on few pathogens". Sharmila.P.P.,Nisha.J.Tharayil ,National seminar in Condensed matter Physics, held at Govt College Kottayam during March 2013.
8. 'Dielectric properties of Mgo nano particles', Sharmila.P.P.,Nisha.J.Tharayil. National Seminar on Recent trends in Bio-Nano Photonics,held at SN College For Women ,Kollam during December 2013
9. Conductivity studies of Zinc oxide nanoparticles at NAtionanl seminar in Nano science held at S.N College,Kollam during Feb 2014

ORIENTATION/REFRESHER/SHORT TERM COURSES ATTENDED

- Participated in UGC sponsored Refresher Course in Physics conducted by UGC Academic Staff College, University of Kerala, Kariavattom from 24-06-2000 to 21-07-2000 and obtained 'A' grade.
- Participated in UGC sponsored Refresher Course in Physics conducted by UGC Academic Staff College, University of Kerala, Kariavattom from 03-08-2001 to 24-08-2001 and obtained 'A' grade.
- Participated in UGC sponsored Refresher Course in Physics conducted by Mahatma Gandhi University, Kerala from 03-09-2002 to 27-09-2002 and obtained 'A' grade.
- Participated in UGC sponsored Refresher Course in Physics conducted by Mahatma Gandhi University, Kerala from 01-03-2005 to 22-03-2005 and obtained 'A' grade.