Maris Stella College (Autonomous), Vijayawada

**Name** : P.Jayaprada **Educational Qualification** : MSc., B.Ed., Ph.D, **Designation:** Lecturer in Physics

**Years of experience**: 12 years

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Languages Known : English, Telugu, Hindi

Areas of Interest : Materials Science, Modern Physics,

Solid State Physics.

# Academic Contribution :

* Preparation of Model Question Papers

# Academic Profile:

Refresher Courses/Orientation Courses/Short Term Courses Attended: Nil

**Patent: 1,** Development of Zinc oxide nanoparticles induced liquid crystals for display device application

# Research Publications:

# Spectal and optical and Birefringence studies of ZnO dispersed 10O.Om compounds for a display application ,P.Jayaprada, P. Pardhasaradhi, B.T.P. Madhv M.C. Rao Journal of applied Spectroscopy 90(3), july january 2023

# Structural and optical studies on TiO2 doped ZnCdO nanocomposities for display device application, M.Ssehu Kumar, P.Jayaprada. R,VS.S.N Ravi Kumar, M.C.Rao Journal of applied Spectroscopy 90(3), 860-866, july 2023.

# [Optical and spectral properties of dispersed ZnO p-n octyloxy benzoic acid liquid crystalline compounds](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=AEVrEMUAAAAJ&cstart=100&pagesize=100&citation_for_view=AEVrEMUAAAAJ:Ow2R9nchCv8C) K. Sajini, P.Jayaprada, P. Pardhasaradhi, B.T.P. Madhv M.C. Rao DSSM Journal of applied Spectroscopy, 89(3), 1177-1184 january 2023.

# [Studies on birefringence, order parameter and image analysis of liquid crystalline pn butyloxy/butyl benzoic acid with dispersed ZnO nanoparticles](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=d2-fqLIAAAAJ&cstart=20&pagesize=80&citation_for_view=d2-fqLIAAAAJ:HoB7MX3m0LUC),

# P Jayaprada, P Pardhasaradhi, BTP Madhav, K Krishna Reddy, D Rama Sekhara

# Reddy, G Giridhar, MC Rao, RKNR Manepalli, Zeitschrift für

# Naturforschung A,761,75-98.

# Effect of ZnO nanoparticles dispersed in liquid crystalline pn-propoxy/propyl benzoic acids and mixtures–optical studies, P Jayaprada, P Pardhasaradhi, BTP Madhav, G Giridhar, MC Rao, RKNR Manepalli, VGKM Pisipati, Molecular crystals and liquid crystals,vol 689,.10-33,August 2019.

# [Optical studies of n-octyloxy-cyanobiphenyl (8ocb) with dispersed ZnO nanoparticles for display device application](https://www.sciencedirect.com/science/article/pii/S0030402619305297), P Jayaprada, MC Rao, P Pardhasaradhi, PV Datta Prasad, RKNR Manepalli, VGKM Pisipati Optik, 185,1226-1237.May 2019.

# Optical properties of liquid crystalline alkoxy benzoic acids with dispersed citrate-capped gold nanoparticles, M Tejaswi, P Pardhasaradhi, BTP Madhav, K Pandian, P Jayaprada, RKNR Manepalli, VGKM Pisipati Zeitschrift für Naturforschung A , 74(11),1001-1022 November 2019.

# Influence of ZnO nanoparticles dispersion in Liquid Crystalline compounds–Experimental studies, RKNR Manepalli, G Giridhar, P Pardhasaradhi, P Jayaprada, M Tejaswi, K Sivaram, Ch Mohana Kumar, VGKM Pisipati, Materials Today: Proceedings, 5,1 2666-2676 january 2018.

1. [Characterisation and mesomorphic behaviour of liquid crystals with dispersed PdCl2 nanoparticles](https://www.tandfonline.com/doi/abs/10.1080/1358314X.2017.1313538), RKNR Manepalli, BTP Madhav, G Giridhar, M Srinivasulu, M Tejaswi, K Sivaram, P Jayaprada,

VGKM Pisipati, Liquid Crystals Today,26,2.32-38 March 2017.

10. Effect of ZNO Nanoparticles Dispersed in Liquid Crystalline Alkoxy Benzoic Acids and Periodic Noise Reduction Using Frequency Domain Filtering.,

RKNR Manepalli, P Jayaprada1, MC Rao, BTP Madhav, and K Pandian Research Journal of Pharmaceutical, Biological and Chemical Sciences. Vol 8(2) 2335-2334. April 2017

11. Synthesis And Characterization Of Schiff Baseliquid Crystals With Dispersed Znonanoparticles-Optical Properties, P.Jayaprada, M. Tejaswi, G.Giridhar, M.C.Rao, V.G.K.M. Pisipati and R.K.N.R Manepalli Rasayana Journal Of chemistry , vol 9,(4) 588-598, December 2016.

12. Synthesis, Characterization and Textural Analysis to reduce the Multiplicative Noise in Nano disperesed Liquid CrystallineCompounds using HF Technique, Rknr Manepalli, P Pardhasaradhi, B T P Madhav P Jayaprada And V G K M Pisipati, Volume 09, No. 01 ,25-29 February 2016.

# Paper Presentations:

1. Presented a paper in DST sponsored national conference on Liquid crystals organized by department of physics, Andhrauniversity Vishakapatnam 2-4 November 2023
2. Presented a paper in UGC sponsored two day national seminar on Recent Trends in Nanoscience and Nanotechnology organized by the department of nanotechnology Acharya Nagarjuna University, January 30-31 2020.
3. Presented a paper in International conference on Nanoscience and Nanotechnology organized by the department of physics & Nanotechnology SRM university Chennai ,28-30 january.2019
4. Presented a paper in International conference on Applied Science and Technology organized by SRKR Engineering college Bhimavaram , 24-25 january 2018
5. Presented a the paper in UGC sponsored two day national seminar on Renewable and Non renewable energy sources organized by the dept of physics in A.N.R college Gudiwada 22-23 january 2018
6. Presented a paper in UGC sponsored two day national seminar on Recent trends in chemical speciation kinetics and nanomaterials conducted by the department of inorganic and andanalytcal Chemistry at vishakapatnam Andhra University, March 3-4 2017
7. Presented the poster on in 2ND A.P Science Congress on “*Science and Technology For Health* held at P.B Siddhartha College of Arts and Science, Vijayawada organized by Andhra PradeshAcademy of Sciences, Amaravathi Association with Dr. N.T.R University of Health , Acharya Nagarjuna University Krishna University, 14-15 september 2016.

Research Projects: Nil

Books Published/Chapters in Books: Nil

Research Guideship: NIL

# Workshops/Seminars/Webinars/Conferences Attended:

1. Participated in.a Three day Indian national academics lecturer workshop on Physics Behind smart Materials ,28-30 March 2022
2. Participated in U.G.C sponsored one day National webinar on *“Medical Physics in Cancer care and Radaiation Protection ”* Organized by Dept. arts and science Krishna University 18 september 2021
3. Participated in UGC sponsored two day national seminar on Interface of allied Science Technology on Life science conducted by the dept of Bio sciences &Bio technology Krishna University Machilipatnam 28-29 february 2020 .
4. Participated in U.G.C sponsored two day National seminar on *“Advances in synthesis of Nano materials and their Multidimensional applications in chemical & biosciences”* Organized by Dept. of Bio-Chemistry and Dept. of Chemistry, Andhra Loyola college Vijayawada, A.P., India 14-15 September 2015
5. Participated U.G.C sponsored two day National seminar on *“Characterization Techniques of Materials”* organized by the Dept.of Nanotechnology, Acharya Nagarjuna University,Nagarjuna Nagar,Guntur, A. P., India. 28-29 March 2016
6. Participated U.G.C sponsored two day National seminar on “*Need and Role of Nano Sciences in the present Era”* organized by the Department of Electronics, in P.B. Siddhartha College, Vijayawada, A.P., India, 7-8 October 2016
7. Participated in U.G.C sponsored two day National seminar on *“Trends and applications of Liquid Crystals”*  organized by the Dept. of Physics, A .C College, Guntur, A.p, India10-11 September 2015

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1. Participated in U.G.C sponsored two day National seminar on *“Emerging Trends in Physics”.*Organized by Dept. of Physics, S.V.R.M. College Nagaram, 7-8 August 2015
2. Participated in UGC sponsored two day National seminar on Empowerment of Youth –Preparing for future organized jointly by Rajiv Gandhi National Institute of youth Developemnt organized by P.B Siddharatha College of Arts and Science19-20 March 2015

10.Participated in UGC sponsored two day National seminar on “*Multifunctional materials Synthesis and Applications”* organized by the Dept. of Physics,The Hindu College, Machilipatnam,. 24-25 january 2015

# FDPs/Training Programs Attended

1. Attended Five-day Faculty Development Program on Recent Advances, Trends and Challenges in nanomaterials Characterization Techniques (RCNMCT-2023) 25-29th September 2023).

# Membership in Professional Bodies: NIL

Recognition/Awards: Best paper Presentation Award in U.G.C sponsored two day National seminar on *“Characterization Techniques of Materials”* organized by the Dept.of Nanotechnology, Acharya Nagarjuna

University,Nagarjuna Nagar, Guntur, A. P., India