

Dr. P. SANJAY

sanjayphysics15@gmail.com

Objective

Work innovatively for the enhancement and betterment of education. I aspire to work for an institution which offers career growth and chances to learn and improve my knowledge.

Experience

- Total years of teaching experience: 4 years
 - Working as Assistant Professor in the Dept. of Physics, Thiruthangal Nadar College, Chennai from June 2020.
 - Worked as Assistant Professor in the Dept. of Physics, Apollo Arts and Science College, Chennai from May 2019 till March 2020.
 - Worked as Assistant Professor in the Dept. of Physics, Sri Muthukumaran Arts and Science College, Chennai from June 2018 till March 2019.
 - Worked as Assistant professor in the Dept. of Physics, Indian Arts and Science College, Thiruvannamalai, from June 2014 till May 2016.
 - Worked in Educall as NEET trainer from June 2017. Taking CBSE Physics classes for +1 & +2 students.
-

Educational Qualifications

| Degree/ Course | Name of the Institution | University / Board | Year of Passing | Percentage of Marks |
|-------------------------|---|----------------------------------|------------------------------------|---------------------------|
| Ph.D PHYSICS | Govt. Arts College for Men, Nandanam | University of Madras | Degree Awarded May 2019 | |
| B.Ed PHYSICS | Krishnaa College of Education | Tamil Nadu Teacher University | 2015 | 76% Distinction |
| M.Sc PHYSICS | Govt. Arts College for Men, Nandanam | University of Madras | 2014 | 76% Distinction |
| B.Sc PHYSICS | Indian Arts And Science College | Thiruvalluvar University | 2012 | 73% |

Technical Skills

- Personal Computer Programme (PCP)
- MS Office

Research Publications

- The preparation of dye sensitized solar cells using natural dyes extracted from *Phytolacca icosandra* and *Phyllanthus reticulatus* with ZnO as photoanode. **Materials Letters**, 244 (2019) 142–146. (Impact **2.68**).
- Performance of TiO₂ based dye-sensitized solar cells fabricated with dye extracted from leaves of *Peltophorum pterocarpum* and *Acalypha amentacea* as sensitizer, **Materials Letters**, 219 (2018) 158–162. (Impact **2.68**)
- Dye-Sensitized Solar Cells Using Natural Dye as Light-Harvesting Material Extracted from the Leaves of *Peltophorum Pterocarpum*, *Materials Today: Proceedings*, 8 (2019) 123-129.
- Natural Dyes Extracted from Fruits of *Phyllanthus reticulatus* as Sensitizers in ZnO Nanorods Based dye Sensitized Solar Cells, *Materials Today: Proceedings*, 8 (2019) 284-293.
- Performance of TiO₂ Based Dye-Sensitized Solar Cells Fabricated Using Coomassie Brilliant Blue in Acetonitrile Solution, *Materials Today: Proceedings*, 8 (2019) 130-135.
- Optical, spectral and photovoltaic characterization of natural dye extracted from leaves of *Peltophorum pterocarpum* and *Acalypha amentacea* as sensitizers for ZnO based dye sensitized solar cells, **Optical materials**, 83 (2018) 192-199. (Impact **2.32**).
- Synthesis, Structural, Morphological and Optical Characterization of TiO₂ and Nd³⁺ Doped TiO₂ Nano Particles by Sol Gel Method: A Comparative Study for Photovoltaic Application. IOP Conf. Series: Materials Science and Engineering 360 (2018) 012011.
- Synthesis and Spectroscopic Characterization of CdSe Nanoparticles for Photovoltaic Applications. IOP Conf. Series: Materials Science and Engineering 360 (2018) 012010.
- Crystal Growth and Characterization of A Novel Non Linear Optical Single Crystals of Urea Phthalic Acid. IOP Conf. Series: Materials Science and Engineering 360 (2018) 012032.
- Growth and Spectroscopic Studies on L-Tartaric Acid Doped Potassium Dihydrogen Phosphate Nonlinear Optical Single Crystal. IOP Conf. Series: Materials Science and Engineering 360 (2018) 012043.
- Synthesis Growth and Characterization of L-Leucenium Hydrogen Maleate Single Crystals For Nonlinear Optical Application. IOP Conf. Series: Materials Science and Engineering **360** (2018) 012044.
- Fabrication of *DSSC* with Nanostructured TiO₂ Photo Anode and Natural Dye Sensitizer extracted from fruits of *Phyllanthus reticulatus*, *IJSRST* 4(5) 437- 443.
- Investigation on the Structural, Optical and Thermal Behaviour of Terbium (Tb³⁺)Doped CdSe Nanorods by Hydrothermal Method, *International Journal of Chem Tech Research*, Vol.10 No.5, pp 1034-1037, 2017.

- Effect of Tb³⁺ doping on structural, optical and electrical behavior of CdSe nanoparticles prepared by Hydrothermal method, *International Journal of Engineering Development and Research*, Vol.5 No.1, (2017) 453-459.
- Structural, Morphological and Optical Characterization of Eu³⁺ and Nd³⁺ Co-Doped TiO₂ Nano Particles by Sol Gel Method, *Mechanics, Materials Science & Engineering*, 2017.
- Growth, Characterization and theoretical studies on nonlinear optical single crystal of L-Alanine Oxalate, 2017 RJPBCS 8(4) Page No. 845-856.
- Structural, Optical, Morphological, and Dielectric Properties of CdSe Nanoparticles by Hydrothermal Method, *International Journal of Scientific & Engineering Research*, Vol. 7, No 8, (2016),1144-1148.

Paper Presentations

- International conference on physics of material science and technology (ICON 2018), PG& Research Department of physics, Government Arts College for men (Autonomous) Nandanam, Chennai-35 on 13th February 2018.
- International conference on materials for energy and environment (ICMEE 2018), Loyola institute of frontier energy (LIFE), Loyola College (Autonomous) Chennai-34 on 22&23rd February 2018.
- International conference on materials science and technology (ICMST-2016) on 5-8 June 2016, St. Thomas College, Palai, (Kerala).
- National conference on preparation and characterization of Crystalline Materials (NCPCCM-2016), Department of physics, Government Arts college, Tiruvannamalai from 4th & 5th August 2016.
- National conference on materials for modern world (NCMMW-2016), Easwari Engineering College Ramapuram, Chennai-89, during 15th & 16th September 2013.
- International conference on materials processing and applications (ICMPA-2016), center for crystal growth school of advanced sciences, VIT University, Vellore during 14th -16th December 2016.
- UGC sponsored National Conference on “Innovative trends in – Materials Science & technology: Recent trends and future prospects (NCMST: RTFP-2016), PG& Research Department of Physics Arignar Anna Government arts College, Villupuram, Tamilnadu during 29-30th December 2016.

Faculty Development Programmes

- Teaching Using ICT Tools organized by IQAC, Department of BCA & Department of IT, J P College of Arts & Science held on 20-24 May 2020.
- One Week National Level Online FDP (19th – 23rd May) for Trainers on “Mastering the Art of Handling Post Covid Challenges for Sustainable Development” organized by the Faculty of Humanities and Science, Dr. MGR Educational & Research Universities, Maduravoyal, Chennai.
- FDP on Data Science - Research Opportunities organised by Department of Information Technology, Sri Ramakrishna College of Arts and Science, Coimbatore-06, held on 21-05-2020.
- Two Day e – Faculty Development Program on “ VIRTUAL TEACHING – Learning MOODLE the Efficient way ” organized by the Faculty of Humanities and Science, Dr. MGR Educational & Research

Institute on 29th May 2020 and 30th May 2020.

- FDP on PRIME pedagogy organized by MEASI Institute of Management 20.11.2020

Seminars/Workshops

- National level seminar on recent advancements and challenges in science and technology, PG& Research Department of physics, Government Arts College for men Nandanam, Chennai-35 on 10th January 2018.
- National Workshop on Solar PV System Design, Department of Electronics and Communication Science & PG Department of Physics, Justice Basheer Ahmed Sayed College for Women, Chennai – 18 on 22nd August 2017.
- International Webinar on Sample Preparation for TEM and Data Analysis Department of material Science, School of chemistry, Madurai kamaraj University, Madurai, Tamilnadu, India.
- International Webinar on Recent Trends in Material Science, Pg & Research Department of Physics, Muthurangam Government Arts College(A) Vellore-632 002.
- Research Challenges In Solar -PV Systems, Department of Electrical & Electronics Engineering, RAJALAKSHMI ENGINEERING COLLEGE Thandalam- 602 105.
- International Webinar on Recent Trends in Physics, Department of Physics with Computer Applications & Internal Quality Assurance Cell (IQAC) of St. Joseph's College (Arts & Science), Kovur, Chennai.
- Nanoscale materials with different dimensions for advanced application, Department of chemistry, Mannar thirumalai naiker college, Madurai, Tamilnadu, India.
- Molecular Communication for Wireless Body Area Networks, Aurora's Degree & PG College, Hyderabad - 500020.
- International Webinar Advanced Materials for Energy Applications, Aurora's Degree & PG College, Hyderabad - 500020.
- Current Trends in Nanotechnology - Nature Inspired Surface Engineering, Aurora's Degree & PG College, Hyderabad - 500020.
- National E-Workshop on “Teaching Skills Development” Government College Patharia, Dist.-Damoh (M.P.) from 22.03.2021 to 24.03.2021
- Workshop on hands on training on development of e-content (MOODLE) & Educational video creation conducted by CIT – TLC on 23.01.2021 & 24.01.2021.
- Workshop on Comprehensive e-learning to e-training guide for administrative work TLC, Ramanujan College, University of Delhi from 25.05.2020 to 05.06.2020 .

Awards & Recognition

Reviewer, Materials today Proceeding, Elsevier Journal (June 2020)

Place:

Date :

(Sanjay. P)