



**Name** : Dr. B.Punithaveni  
**Designation** : Assistant Professor  
**Department** : Physics  
**Qualification** : Ph. D  
**Experience** : Teaching -16 Years  
**Research** : 8 Years  
**Area of Specialization(s)** : Crystal Growth  
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### Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Physics	Anna University, Chennai	Jan 2012 – Oct 2019
M. Phil	Physics	Kongunadu Arts and Science College, Coimbatore	Aug 2007- March 2008
M. Sc.	Physics	Kongunadu Arts and Science College, Coimbatore	June 2004 – April 2006
B.Sc.	Physics	Kongunadu Arts and Science College, Coimbatore	June 2001 – April 2004

### Research Publications (Indexed)

#### International

1. Structural, spectral, electrical, Z-scan and HOMO LUMO studies on new 2-amino-6-methylpyridinium 2-hydroxybenzoate crystal, B Punithaveni, K Thilagavathy, N Muthukumarasamy, D Nithyaprakash, M Saravanabhavan, **Materials Science-Poland** 36 (4), 537-546, **2018**
2. Transport properties of CdS quantum dots by chemical precipitation method, D Nithyaprakash, J Chandrasekaran, B Punithaveni, Journal of Optoelectronics and Advanced Materials, **Journal of Optoelectronics and Advanced Materials** 17, 1333-1338, **2015**
3. The study of optical, dielectric and optoelectronic properties of dodecylbenzene sulfonic acid doped polyaniline, D Nithyaprakash, J Chandrasekaran, B Punithaveni, L Sasikumar, **Optik** 125 (18), 5343-5347, **2014**
4. Study of optical, dielectric and optoelectronic properties of dodecylbenzene sulfonic acid doped polypyrrole, J Chandrasekaran, D Nithyaprakash, B Punithaveni, L Sasikumar, KB Ajjan, D Manoharan, **Optik** 124 (15), 2057-2061, **2013**

5. The effect of annealing temperature on the structural and optical properties of In<sub>2</sub>Se<sub>3</sub> thin films, D Nithyaprakash, N Punithaveni, J Chandrasekaran, **Optoelectronics and Advanced Materials-Rapid Communications** 4 , 357-360, **2010**
6. Transport Properties of Thermally Evaporated In<sub>2</sub>Se<sub>3</sub> Thin Films, D Nithyaprakash, B Punithaveni, J Chandrasekaran, **Surface Review and Letters** 16 (05), 723-729, **2009**

### **Acted as a Resource Person**

- Invited talk on “Antimicrobial Resistance” – PPG Institute of Technology , Saravanampatty, Coimbatore , October 10<sup>th</sup> 2023.
- Special talk on “The Role of Science in Everyday Life” – Tamilnadu Scientific Research Organisation, Pudhugai FM 91.2 MHz Community Radio, Pudukkottai, November 11<sup>th</sup> 2025

### **Paper Presentations in Conference**

#### **International**

- Synthesis of Silver Nanoparticles from Fresh Leaf Extract of Cynodon Dactylon, International Conference on Advanced Materials for Sustainable Technologies, PSGR Krishnammal College for Women, Coimbatore, 23.01.2020 & 24.01.2020.
- Green Synthesis of Zinc Oxide Nanoparticles Aloe Barbaderies Miller Leaf Extract, International Conference on Optics and Photonics Technology, PSGR Krishnammal College for Women, Coimbatore, 02.02.2023 & 03.02.2023
- Green Synthesis of Silver Nanoparticles Using Cynodon Dactylon Leaf Extract and its Antibacterial Activity, International Conference on Optics and Photonics Technology, PSGR Krishnammal College for Women, Coimbatore, 02.02.2023 & 03.02.2023
- Biosynthesis of Silver Nanoparticles using Citrus Limetta Peel, International Virtual Conference on Materials Science and Applications , Seethalakshmi Ramaswami College, Tiruchirappali, 01.02.2024 & 02.02.2024
- Photocatalytic Efficiency of Zinc Oxide – Enhanced Activated Carbon in Methylene Blue Degradation, International Conference on Smart NextGen Nanomaterials for Sustainable Development of Energy and Environment – An Interdisciplinary Approach, Dr.N.G.P Arts and Science College, Coimbatore, 15.10.2024 & 16.10.2024
- Photocatalytic Degradation of Methylene Blue using Zinc Oxide Loaded Activated Carbon, International Conference on Sustainable Materials: Sensing Technologies and Next Generation Fuels , SIMATS Engineering, Thandalam, 21.02.2025

#### **National**

- Growth and Characterization of 2 – Amino 5 – Methylpyridinium Glutrate Single Crystal for Optoelectronic application, National Conference on Renewable Energy and its Applications in Mitigation of Climatic Changes, PSGR Krishnammal College for Women, Coimbatore, 21.01.2019 & 22.01.2019

## Participation in Conference

- National Conference on Molecular Modeling and Simulation Methods, PSGR Krishnammal College for Women, Coimbatore, 17.02.2020 & 18.02.2020
- International Virtual Conference on Advanced Materials for Sustainable Energy and Environment, PSGR Krishnammal College for Women, Coimbatore, 16.02.2022 – 18.02.2022

## Participation in Seminar

- Role of LASERS in Defence, St Joseph's College of Engineering, 18.08.2020.
- Basics of Polymer Photovoltaics, Sri Eshwar College of Engineering, Coimbatore, 26.08.2020
- Indian Science Technology and Engineering Facilities Map (I-STEM): A Multidimensional Gateway to Researchers/Faculties/ Scientists, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, Chennai, 24.02.2022.
- Current Challenges and Future scope in Photovoltaics, SRM Institute of Science and Technology, Ramapuram, Chennai, 25.04.2022.
- Advanced Materials for Sustainable development and Energy applications, SRM Institute of Science and Technology, Chennai, 17.02.2023.
- International Seminar on Recent Trends in Energy Technology, Periyar University, Salem, 22.02.2024

## Participation in Workshop

- Workshop on Optics, PSGR Krishnammal College for Women, Coimbatore, 16.10.2018
- Workshop on The Art of Defining Research Problem/Questions and Awareness on Intellectual Property Rights, PSGR Krishnammal College for Women, Coimbatore, 24.10.2019
- National Workshop on Nano Characterization and Applications of Biosensor, Dr.N.G.P Arts and Science College and DRDO – BU CLS, Coimbatore, 20.02.2020 & 21.02.2020
- National Workshop on Electro Chemical Devices, PSGR Krishnammal for Women, Coimbatore, 22.08.2023 & 23.08.2023
- CSIR NET/SET workshop on Physical Sciences, PSGR Krishnammal for Women, Coimbatore, 12.08.2024 & 13.08.2024
- International workshop on Space Exploration on Molecules and Life, Sathyabama Institute of Science and Technology, Chennai, 19.08.2024
- CSIR NET/SET workshop on Physical Sciences, PSGR Krishnammal for Women, Coimbatore, 14.07.2025 & 15.07.2025

## Projects

- Tourism Impact Analysis Study of Nilgiris, Tamil Nadu conducted by Indian Institute of Management, Bangalore

## Indexing and Citations

Overall Citation: 40, H- Index = 4