

STAFF PROFILE



1) Name: Dr.N.S.Minimala

2) Designation: Assistant Professor & Head

3) Department: Physics

4) Qualifications:

Academic: M.Sc., M.Phil., Ph.D.,

Additional: M.C.A.,

5) Experience (in years): Teaching: 29 Years Research: 12 years

6) Area of Specialization: Solid State Ionics

7) Contact: 9443773281 E-mail: minimala84@gmail.com Mobile Number: 9443773281

8) Research Publications:

	International	National
Total Number of Publications	8	01

List of International Publications:

1. J.Senthil, **N.S.Minimala**, Govinda Nagarajan and O.Mahendran, FTIR and Ionic conductivity studies on blend polymer electrolytes (International Journal of Engineering Science and Technology vol 3 No 8 August 2011)
2. **N.S.Minimala** and A.John Peter, Nonlinear optical rectification of confined exciton in a ZnO/ZnMgO strained quantum dot (Vol 4 No 4 2012 Journal of Nano and Electronic Physics)
3. **N.S.Minimala**, A.John Peter and Chang Kyoo Yoo, Pressure induced non-linear optical properties in a wurzite GaN/Al_xGa_{1-x}N strained quantum dot (Vol 86, No. 8 Phase Transitions (2013) 824-837)
4. **N.S.Minimala** and A.John Peter, Effects Of Magnetic field And The Built –in Internal Fields On The Absorption Coefficients In A Strained Wurtzite GaN/AlGa_xN Quantum Dot (Solid State Physics: Proceedings of the 57th DAE Solid State Physics Symposium 2012 AIP conference proceedings 1512, 1012-1013)
5. **N.S.Minimala** and A.John Peter, Electric field induced nonlinear optical

properties of a confined exciton in a ZnO/Zn_{1-x}Mg_xO strained quantum dot (Journal of Physica E48 (2013) 133-139)

6. **N.S.Minimala** and A.John Peter, Electronic and optical properties of exciton in wurtzite GaN/Ga_{0.8}Al_{0.2}N and ZnO/Zn_{0.607}Mg_{0.393}O strained quantum dots (Journal of Computational and Theoretical Nano Science Vol 11, 1-8, 2014)

7. **N.S.Minimala**, A.John Peter and Chang Kyoo Yoo, Magnetic field induced nonlinear optical properties in a strained wurzite GaN/Al_xGa_{1-x}N quantum dot: Effect of internal fields(Journal of Superlattices and Microstructure 60 (2013) 148-159)

8. **N.S.Minimala** and A.John Peter, Pressure induced interband emission energy in a Nitride based wide band gap quantum dot (Journal of Elixir Semiconductor Materials 50 (2012) 10574 – 10575)

List of National Publications:

1.**Minimala N.S**, Sankaranarayanan R, Aafrin Hazaana S, Conductivity Studies in Poly Methyl Methacrylate Based Solid Polymer Electrolytes Complexed with Different Chloride Salts(SNC Journal of Academic Research in Humanities and Sciences (SJARHS) Volume No.9, issue No.1 (2022) 116-120

9) Presentation in Seminar / Conference:

International - 1

1. Presented a Poster titled Investigation of PVA Based Solid Polymer Electrolyte Complexed with Potassium Chloride Salts in the Two Day International Conference on Smart Materials and Biomolecules ICSMB'23 organized by The American College on January 09& 10, 2023

National: 7

1. Presented a paper titled **Studies on blend based –Magnesium ion conducting polymer electrolytes** in the National conference on Emerging materials , Devices and Technologies (EMDT-2009) organized by Sri Venkateswara University Tirupati on February 24 &25, 2009.
2. Presented a paper titled **Investigations in Polymeric Thin films** in the National Conference on Recent Trends in Crystal Growth, Thin films and Nano Structured Materials, (Crystal-Nano -2009) organized by Aditanar college of Arts and Science, Tiruchendur on August 5 & 6 , 2009 (Sponsored by UGC)
3. Presented a paper titled **Pressure induced interband emission energy in a nitride based wide band gap quantum dot** in the National Conference On Recent Advancement In Nanoscale Research, Anna University, Chennai, Madurai Region on 24-25th August 2012 (Sponsored by DRDO, CSIR & ISTE)
4. Presented a paper titled **Solar energy resources, Technologies and Applications** in National level seminar on Potential and Prospects of solar energy Technologies organized by V.V.Vanniaperumal college for women, Virudhunagar on February 1, 2008
5. Presented a paper titled **FTIR and Conductivity studies on blend polymer electrolytes** in National level seminar on Recent Trends in Physics organized by S.F.R college for women , Sivakasi on December 29 & 30, 2010
6. Presented a paper titled **Ionic conductivity studies in PMMA based solid polymer electrolyte** in National seminar on Polymers synthesis characterization and applications (POLYCAP '11) organized by Mannar Thirumalai Naicker college ,Madurai on October 21 & 22 ,2011
7. Presented a paper titled **Nonlinear optical properties in a group III wurtzite-Nitride wide bandgap Nano- Dot The effect of pressure and built-in electric**

field in Government Arts college in Udhamandalam on 12-14th September 20

10) Participation in Seminar: 8

11) Participation in Workshop: 2

1. International Workshop on Advanced Energy Materials , in Alagappa university,
Karaikudi on 9-10th February 2012

(Sponsored by UGC-SAP,DST-FIST PURSE Supported)

2. State Level Two Days Lecture Cum Training Programme on Research
Instruments in Ayya Nadar Janaki Ammal college , Sivakasi on 28-29th
september 2012 (Sponsored by UGC New Delhi)

12) Participation in Orientation Programme/ Induction Programme/ Short term Courses: 1

13) Participation in Faculty Development Programme: 5

14) Invited Speaker : 12

* Note : Please provide the total Numbers and details for each metrics