FACULTY PROFILE

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ACADEMIC QUALIFICATIONS:

1. M. Sc. (Physics) (2001 – 2003) from University College of Science (OU Campus), Osmania University, Hyderabad.
2. B. Ed. (2004-2005) from Manjeera College of Education (OU), Patancheru.
3. Ph. D. (2011-2016) from the Department of Physics, Osmania University, Hyderabad.

Title of the thesis

Synthesis and Characterization of Aurivillius Type Bismuth Layer Structured Materials $(Bi_2O_2)^{2+}$ $(A_{m-1}B_mO_{3m+1})^{2-}$, *A=Bi, La, Sr; B=Ti, Zr, Nb; m=2, 3 and 4*

4. Qualified Faculty Eligibility Test (JNTUH) – 2010.
5. Qualified APSET – 2012
6. Certificate course in Office Automation (2018) conducted by Andhra Pradesh State Board of Technical Education, Vijayawada.

PROFESSIONAL EXPERIENCE:

1. Lecturer in Physics at different Degree Colleges, Bhuvanagiri.
2. Assistant Professor of Physics (2009 – 2011) at Nalla Malla Reddy Engineering College, Narapally, Hyderabad.
3. Project Assistant in a DST sponsored research project at Department of Physics, Osmania University, Hyderabad.
4. Junior Research Fellow in the UGC-RFSMS (Research Fellowships in Science for Meritorious Students) at Department of Physics, OU, Hyd.
5. Junior Lecturer in Physics (2012-2020) at Government Junior Colleges, Gurazala (Guntur), Dachepalli (Guntur) and Choutuppal (Yadadri Bhuvanagiri).
6. Assistant Professor of Physics (Presently working), Government Degree College, Hayathnagar.

RESEARCH:

Synthesis and Characterization studies like Dielectric, Ferroelectric, Impedance and DC conductivity studies on:

1. 2, 3 and 4 Layered Strontium Bismuth Niobates and
2. Zirconium (Zr) substituted Lanthanum modified Bismuth Titanate.

PUBLICATIONS:

1. **N. Thirumal Reddy**, N. V. Prasad, G. S. Kumar, G. Prasad & E. Venkata Ramana, Electrical and Pyroelectric Measurements on Charge Imbalanced $Sr_2Bi_2Nb_3O_{12}$ Sol-Gel Ceramic (Ferroelectrics, 447:126–135 (2013))
   (http://dx.doi.org/10.1080/00150193.2013.821927)
2. **N. Thirumal Reddy,** N. V. Prasad, G. S. Kumar and G. Prasad, FTIR, Dielectric and Impedance Spectroscopic Studies on $Bi_{3.25}La_{0.75}Ti_{3-x}Zr_xO_{12}$ (x=0.1, 0.3, 0.5, 0.7 & 1) (AIP Conf. Proc. 1512, 74-75 (2013))
   (https://doi.org/10.1063/1.4790917)
3. **N. Thirumal Reddy**, N. V. Prasad, G. S. Kumar and G. Prasad, Electrical studies on Zr-modified $Bi_{3.25}La_{0.75}Ti_3O_{12}$: a promising FRAM Ceramic (Phase Transitions, 87, No. 12, 1246-1254 (2014))
   (http://dx.doi.org/10.1080/01411594.2014.948439)
4. **N. Thirumal Reddy**, N. V. Prasad, G. S. Kumar, G. Prasad & E. Venkata Ramana, Impedance and pyroelectric measurements on charge imbalanced BLSF sol-gel ceramic (IEEE, 978-1-4673-2669-8/12 (2012))
   (http://doi:10.1109/ISAF.2012.6297848)
5. **N. Thirumal Reddy**, K. Madhavi, N. V. Prasad, G. S. Kumar and G. Prasad, Impedance spectroscopic studies on 'Zr' modified $Bi_{3.25}La_{075}Ti_3O_{12}$ ceramics. (IJRET, Eissn: 2319-1163, Pissn: 2321-7308, Vol. 04, Issue:01 (2015))
   (https://ijret.org/volumes/2015v04/i01/IJRET20150401060.pdf)