

CURRICULUM VITAE

Dr. Nagaraja T M.Sc., KSET., Ph.D (Physics).

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OBJECTIVE

- Very happy to work in the field of Physics to gain knowledge as an academician as well as a researcher.

CURRENT OCCUPATION

- Assistant Professor October 2023(Till date)

Department of Physics, Dayananda Sagar College of Arts Science & Commerce (DSCASC), Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560111, Karnataka, India.

ACADEMIC PROFILE

- Ph.D. in Physics (Full-Time, 2022): Bangalore University, Bengaluru
- Qualified **KSET (SLET)-Karnataka State Eligibility Test** for Assistant Professorship in Physics
- M.Sc. (Physics, 71.34%, 2015): Govt. Science College, Chitradurga
- B.Sc. (PCM, 81.94%, 2013): Govt. Science College, Chitradurga

DOCTORAL THESIS

- Synthesis and Studies on Pb-based Multiferroic-Polymer Composites.
Supervisor: Dr Basavaraj Angadi, **Date of award:** 18.03.2022

Research Interests and Experience

- Oxides, Multiferroics, Polymers, Multiferroic-Polymer Composites, thin films.
- More than five years of research experience.

Research Skills

- Synthesis of materials by solid-state reaction technique, combustion method, solution casting method, etc.
- Data plotting and analysis using Origin software.
- Determination of Crystal structure through the Rietveld refinement method using Fullprof software.
- Finding the Grain size using ImageJ software.
- Analysis of Raman spectra with proper data fitting. etc.

Research Instruments Handled/Operated:

- X-ray Diffractometer
- Raman Spectrometer
- Fourier Transform Infrared Spectrometer (FTIR)

PUBLICATIONS:

- Probing the spin-phonon coupling through Raman spectroscopy in $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3 - \text{Pb}(\text{Co}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics, **Nagaraja T**, Basavaraj Angadi, Vasant Sathe, Jagadeesha Angadi V, S. P. Kubrin, Ceramic International 48 (2022) 35915-35926.
- Investigation on diffuse phase transition through Raman and Dielectric properties of $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3 - \text{Pb}(\text{Co}_{0.33}\text{Nb}_{0.67})\text{O}_3$ solid solutions, **Nagaraja T**, Shidaling Matteppanavar, Shivaraja I, Sunanda T. Dadami, Sudhindra Rayaprol, S. K. Deshpande, Vasant Sathe, Basavaraj Angadi, Materials Chemistry and Physics 267 (2021) 124678.
- Impedance and modulus studies of $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3 - \text{Pb}(\text{Co}_{0.33}\text{Nb}_{0.67})\text{O}_3$ solid solutions, **Nagaraja T**, Shidaling Matteppanavar, Shivaraja I, Sudhindra Rayaprol, Basavaraj Angadi, Journal of Alloys and Compounds 869 (2021) 159312.
- Room temperature structural and dielectric studies of $\text{Pb}(\text{Fe}_{0.585}\text{Nb}_{0.25}\text{W}_{0.165})\text{O}_3$ solid solution **Nagaraja T**, Sunanda T. Dadami, and Basavaraj Angadi, AIP Conference Proceedings 1953 (2018) 070013.
- Structural, vibrational and magnetic studies of $\text{Pb}(\text{Fe}_{0.585}\text{Nb}_{0.25}\text{W}_{0.165})\text{O}_3$ multiferroic solid solution, **Nagaraja T**, Sunanda T Dadami, Shidaling Matteppanavar, Shivaraja I, Sudhindra Rayaprol, Basavaraj Angadi AIP Conference Proceedings 1942 (2018) 140041.

- Synthesis and characterization of flexible films of PVDF/Pb(Fe_{0.585}Nb_{0.25}W_{0.165})O₃ polymer multiferroic composites, **Nagaraja T**, Sunanda T. Dadami, S. R. Manohara, Basavaraj Angadi, AIP Conference Proceedings 2142 (2019) 070023.
- Room temperature neutron diffraction, electron paramagnetic resonance and ferroelectric properties of relaxor ferroelectric Pb(Fe_{0.6}Nb_{0.2}W_{0.2})O₃, Shidaling Matteppanavar, Jagadeesh Angadi V, **Nagaraja T**, Sudhindra Royaprol, Basavaraj Angadi. AIP Conference Proceedings (2019).

Details Of Research Papers Presented at International Conferences

- The “International Conference on Advances in Basic Sciences (ICABS)” was held at GDC Memorial College, Bahal, Haryana from 07th to 09th February 2019.
- The “62nd DAE Solid State Physics Symposium”, sponsored by Board of research in Nuclear Physics (BRNS), Department of Atomic Energy (DAE), Govt of India, at BARC, Mumbai between 26th to 30th December 2017.
- The 2nd International Conference on Condensed Matter and Applied Physics (ICC) 2017, Organized by Govt. Engineering College, Bikaner during November 24-25, 2017.

TEACHING EXPERIENCE

- Worked as a guest faculty (2021-2023) at the Department of Physics, Bangalore University.
- One year as a guest faculty at the Department of Post Graduate Studies in Physics, Davangere University, Davangere.

Teaching M.Sc. –Mathematical Physics, Statistical Mechanics, Laser Physics, Electronics. Work also involves setting up General Physics, optics, and advanced physics Laboratories and experiments at the M.Sc. level.

COMPUTER KNOWLEDGE

- Basic Computer Skills
- MS Office, OS - Windows, Linux, LaTeX

PERSONAL PROFILE:

Name : Dr. Nagaraja T
DOB : 18-08-1992
Father Name : Thippeswamy
Mother Name : Anusuyamma T
Nationality : Indian
Languages Known : Kannada, Telugu, English and Hindi
Permanent Address : Bommenahalli, Gonur Post – 577 517
Chitradurga (T) and (D), Karnataka, India

REFERENCES:

1. Dr Basavaraj Angadi (My Supervisor)
Professor
Department of Physics
Bangalore University, JB Campus
Bengaluru – 560 056
Email: brangadi@gmail.com
2. Dr Sudhindra Rayaprol
Scientist - G
UGC-DAE CSR, Mumbai Centre
BARC Campus, Trombay,
Mumbai – 400 085
Email: rayaprol@gmail.com

DECLARATION:

I hereby declare that the above-furnished information is true to the best of my knowledge and belief.

Place: Bengaluru

Dr. Nagaraja T