

TRIPTA PARIDA

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 Interdisciplinary Programme
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Research Interests

Specialization: Experimental Condensed Matter and Magnetoelectrics.

Key Words: Nanocomposites, Nanoparticles, Ferrite Thin films, Pulsed laser deposition, rf magnetron sputtering, magnetic properties.

Education

Course	Subject	University	Year
PhD	Physics	Indian Institute of Technology, Madras	2015*
M.Tech	Nanoscience and Technology	Pondicherry University, Puducherry	2015
M.Sc.	Physics	National Institute of Technology, Rourkela	2012
B.Sc. (Hons.)	Maths, Phys. & Chem.	Sri Satya Sai University, Anantapur Campus	2010
10+2	Maths, Phys. & Chem.	M.G.M English Medium School	2007
10 th	Maths & Sciences	M.G.M English Medium School	2005

Papers published

□ Dielectric Anomalies and Competing Magnetic Interactions in NiFe₂O₄-PMN-PT Nanocomposite Materials K. Kamala Bharathi, *Tripta Parida*, Hanuma Kumar Dara, K. Ramesh Kumar, André M. Strydom, M. Sarathbavan, and K. Ramamurthi *J. Phys. Chem. C*, **122**, No. 1, 880–887 (2018) / **DOI:** 10.1021/acs.jpcc.7b10099.

□ Competing magnetic interactions and superparamagnetism like behaviour in xNiFe₂O₄- (1 - x) BaTiO₃ (x = 0.2 and 0.3) nano composites S. Umashankar, *Tripta Parida*, K. Ramesh Kumar, André M. Strydom, G. Markandeyulu, K. Kamala Bharathi *J. Magn. Magn. Mater.*, **439**, 213-219 (2017) / **DOI:** 10.1016/j.jmmm.2017.05.002.

Projects

- “STUDY OF MAGNETIC PROPERTIES OF $A_{1-x}Zn_xFe_2O_4$ THIN FILMS ($x=0.9$ & $A=Mn, Ni, Cu$)” was undergone under the guidance of Prof. Shiva Prasad and Prof. N. Venkataramani, at IIT Bombay.
- “Synthesis of Cobalt Nanoparticles” was successfully completed at National Institute of Science Education and Research, Bhubaneswar as a Summer Research fellow, under the guidance of Dr. Subhankar Bedanta.
- Final Year-Dissertation under Dr. P. N. Viswakarma at Physics Department, NIT Rourkela. Designed an “AC susceptibility set up for 7K close cycle refrigerator.
- First Year Project entitled “Study of thickness dependence of Structural transition in GdCu” was successfully completed at UGC-DAE Consortium for Scientific Research, Indore as a Summer Research Fellow sponsored by I. A. Sc., INSA, NASI, under the guidance of Dr. Rajeev Rawat.

Instruments Handled

- Transmission electron microscopy (CM 12- 120 kV, Technai -200 kV).
- PE loop, d_{33} meter.
- Dielectric Resonance Spectroscopy.
- Preparation of oxide compounds (mixed M-Zn ferrites ,where M =Ni,Mn)by solid state technique and intermetallic compound GdCu using Arc-melting.
- Film deposition techniques Pulsed Laser Deposition and rf Sputtering .
- X-ray diffraction.
- Magnetization measurements using 6KOe Physical Property Measurement System (PPMS) .
- Scanning electron microscope (SEM).
- Preparation of Nanoparticles by Chemical synthesis.
- Two probe Resistivity setup with Liquid Nitrogen temperature environment.

Awards

- I have been selected as a project intern for six months at IIT BOMBAY through IRCC scheme, in 2015.
- An abstract entitled “Thickness dependence structural transition in GdCu” (ID:IMA6) has been accepted for “Poster Presentation” in International Conference on Magnetic Materials and Applications, held at Department of Physics, Pondicherry University during September 15-17, 2014.
- An abstract entitled “A **STUDY OF MAGNETIC PROPERTIES OF $A_{1-x}Zn_xFe_2O_4$ THIN FILMS ($x=0.9$ & $A=Mn, Ni$)**” has been accepted in International Conference on Magnetic Materials and Applications, held at VIT, Chennai during November, 2015.

Teaching Experience

One year teaching experience as a Lecturer in Physics at VIKASH RESIDENTIAL SCHOOL, Bargarh in the session of 2012-2013.

References

Prof. Shiva Prasad

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