

Dr. NAGAPURI RAJU

Personal Information



Designation: Assistant Professor (H&S)

Qualification: M.Sc., Ph. D (Physics)

Teaching Experience: 3 Yrs

Specialization: Materials Science

Date of Joining: 01/07/2019

Phone Number: 9959019289

Achievements/Publications/Workshops/Seminar/Guest Lectures

Research Experience/Achievements

10-05- 2018 and 10-11- 2018	Postdoc visiting researcher, University of Hyogo, Japan (HUMAP/HORN fellowship)
09-12-2011 and 08-12-2013	Junior Research Fellowship (JRF): Funded by Department of Science and Technology (DST), India.
09-12-2013 and 31-12-2014	Senior Research Fellowship (SRF): Funded by Department of Science and Technology (DST), India.
05-09-2015 and 07-10-2017	BSR-RFSMS (JRF): funded by University Grants Commission (UGC).

01-08-2015

Qualified State Eligibility Test for Assistant
Professor/Lectureship (SET-TS &AP-2014).

Young Scientist Award

1. Young Scientist Award (Runner Up-II) in physics from Dr. K.V. Rao Scientific Society, Hyderabad, India, in 2017.

Best Oral presentation awarded research papers

1. *Research Scholars' Workshop on Physics of Materials, UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore, December 23-24, 2013. "High Field ^{57}Fe Mössbauer Spectroscopic Study of Multiferroic Y-type Hexaferrites".*
2. Work shop of Research Scholars on Recent Advances in Materials Synthesis and Characterization. Department of Physics, O.U, Hyderabad -500007, August 31, 2013. *"The Mössbauer spectroscopy studies of $\text{La}_{0.67-x}\text{Eu}_x\text{Ca}_{0.33}\text{MnO}_3$ ($x = 0.25, 0.27$) perovskite manganites".*

Publications

1. **Nanosize effects on the magnetic field induced transitions in $\text{La}_{0.67-x}\text{Eu}_x\text{Ca}_{0.33}\text{MnO}_3$ perovskite manganite**
N. Raju, D. Roja Sree, S. Shravan Kumar Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy, V. Raghavendra Reddy and Goverdhan Reddy Turpu, *J. Mag. Magn. Mater.* **368**, (2014) 308-311.
2. **In-field ^{57}Fe Mössbauer study of multiferroic $\text{Ba}_{0.5}\text{Sr}_{1.5}\text{Zn}_2\text{Fe}_{12}\text{O}_{22}$ Y-type hexaferrite**
N. Raju, S. Shravan Kumar Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy and V. Raghavendra Reddy, *J. Mag. Magn. Mater.* **384**, (2015) 27-32.

3. **Structural, electrical, magnetic and ^{57}Fe Mössbauer study of polycrystalline multiferroic DyFeO_3**
S. Shravan Kumar Reddy, **N. Raju**, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy and V. Raghavendra Reddy, *J. Mag. Magn. Mater.* **396**, (2015) 214-218.
4. **Magnetic, ferroelectric and spin phonon coupling studies of $\text{Sr}_3\text{Co}_2\text{Fe}_{24}\text{O}_{41}$ multiferroic Z- type hexaferrite**
N. Raju, S. Shravan Kumar Reddy, J. Ramesh, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy, V. G. Sathe and V. Raghavendra Reddy, *J. Appl. Phys* **120**, (2016) 054103.
5. **Study of Mn doped multiferroic DyFeO_3 ceramics**
S. Shravan Kumar Reddy, **N. Raju**, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy and V. Raghavendra Reddy, *Ceram. Int.* **43**, (2017), 6148-6155.
6. **^{57}Fe Mössbauer study of spin reorientation in polycrystalline NdFeO_3**
J. Ramesh, **N. Raju**, S. Shravan Kumar Reddy, M. Sreenath Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy and V. Raghavendra Reddy, *J. Alloys. Compd.* **771**, (2017) 300-304.
7. **Effect of sintering temperature on leakage current of polycrystalline multiferroic DyFeO_3 system**
S. Shravan Kumar Reddy, **N. Raju**, J. Ramesh, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy and V. Raghavendra Reddy, *Ferroelectrics*, **516**, (2017) 44–50.
8. **The electrical, magnetic and ^{57}Fe Mössbauer studies of Al doped PrFeO_3 polycrystalline materials**
J. Ramesh, S. Shravan Kumar Reddy, **N. Raju**, M. Sreenath Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy and V. Raghavendra Reddy, *Ceram. Int.* **44**, (2018) 19314-19318.

International Workshops

1. International School on Fundamental Crystallography with applications to Electron Crystallography held on 27 June to 2 July, 2016 at Antwerp University, Antwerp, Belgium. *“Magnetic, in-field Mössbauer and Spin phonon coupling studies of $Sr_3Co_2Fe_{24}O_{41}$ multiferroic hexaferrite” (Poster Presentation).*
2. International summer school on “ Ab initio modeling in solid state Chemistry-2020” held on 21st to 25th September, 2020 at Imperial college London, UK (Virtual edition)

List of Conferences / Seminars attended (National/ International).

1. 24th Congress and General Assembly of the International Union of Crystallography, Hyderabad International Convention Centre, 21-28 August 2017, Hyderabad, India. *“Neutron diffraction studies of Sr doped magneto-electric M-type $BaFe_{12}O_{19}$ hexaferrites” (Poster Presentation).*
2. International conference on Environmental Impact of Advanced Materials and Energy Technoogies (EIAMET-2017), Department of Physics (PG), AV college of Arts, Science & Commerce, Hyderabad-29, India, January 19-21, 2017. *“Magnetic studies of magneto-electric M-type hexaferrite” (Oral Presentation).*
3. International conference on technologically advanced materials & Asian Meeting on Ferroelectricity, University of Delhi, India, November 7-11, 2016. *“Ferroelectric, spin phonon and spin lattice coupling studies of $Ba_{0.5}Sr_{1.5}Zn_2Fe_{12}O_{22}$ multiferroic Y- type hexaferrite” (Poster Presentation).*
4. Thematic workshop on Diffraction Methods For Structural Analysis in Material Science, Poornaprajna Institute of Science Research (PPISR), Bengaluru & Department of Physics, Bangalore University, Bengaluru, July 25-27, 2016.

5. International Conference on Materials Science and Ionizing Radiation Safety and Awareness (ICMSIRSA-2016) Department of Physics, Shivaji University, Kolhapur, Maharashtra, India, January 28-30, 2016. “*Study of spin phonon coupling in $Sr_3Co_2Fe_{24}O_{41}$ multiferroic hexaferrite*” (Oral Presentation),
6. 60th DAE solid state physics symposium, Amity University, UP, Noida, December 21-25, 2015. “*Low Temperature Ferroelectric Studies of Multiferroic Y- Type Hexaferrite*” (Poster Presentation).
7. National Conference on Environmental Radiation and Functional Materials, Department of Physics, Osmania University, Hyderabad-500007, India, February 28-March 1, 2015. “*Magnetic and In-field ^{57}Fe Mossbauer studies of Multiferroic Z- Type Hexaferrite*” (Oral presentation).
8. International Conference on Magnetic Material and Applications (ICMAGMA-2014), Department of Physics, Pondicherry University, Pondicherry, India, September 15-17, 2014. “*High Field ^{57}Fe Mössbauer Spectroscopic Study of Multiferroic $Ba_{0.5}Sr_{1.5}Zn_2Fe_{12}O_{22}$ Hexaferrites*” (Oral presentation).
9. “CSR Lecture Series” UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore – 452 001, September 1-12, 2014.
10. National seminar on Advanced Materials and their Applications, Department of physics, Osmania University, February 27-28, 2013. “*Electrical transport studies of $La_{0.67-x}Eu_xCa_{0.33}MnO_3$ ($x=0.25, 0.27$) nano particles*” (Poster Presentation).
11. 57th DAE solid state physics symposium, IIT Bombay, Mumbai, India, December 3-7, 2012.
12. 4th National symposium for materials research scholars MR-12, IIT Bombay, Mumbai, India, May 4-5, 2012.