PERSONAL INFORMATION

Dr. RAMOVATAR

Village Bass Bijoli, Post Kasni, Tehsil Surajgarh, Dist Jhunjhunu, Rajasthan, India -333029

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Sex Male | Date of birth 03/05/1992 | Nationality Indian

RESEARCH AREA

Dielectric, Ferroelectric, Piezoelectric and Electrocaloric Materials, Ferroelectric Polymer Nanocomposites,

EDUCATION AND TRAINING

2014 - 2019

Ph. D. (Physics)

Department of Physics, Central University of Rajasthan, Ajmer (India)

Supervisor: - Dr. Neeraj Panwar

Ph.D. thesis title: - Studies on the dielectric, ferroelectric, piezoelectric and optical properties of barium titanate based lead – free ceramics

2012 - 2014

M.Sc. Physics

Department of Physics, Central University of Rajasthan, Ajmer (India)

Grade – 4.05/6 (60.5%)

M.Sc. project thesis title: - Effect of bismuth (Bi) doping in $La_{0.5}Ca_{0.5}MnO_3$ manganites

2009 - 2012

B.Sc. (Physics, Chemistry, Mathematics)

University of Rajasthan, Jaipur (India)

Percentage: 67.55

RESEARCH PUBLICATIONS

1. **Ramovatar**, I. Coondoo, Pradip Kumar, Azam A. Khan, S. Satapathy, N. Panwar, Observation of large electrocaloric properties in lead-free $Ba_{0.98}Ca_{0.02}Ti_{0.98}Sn_{0.02}O_3$ ceramics, **AIP Advances 9 (2019) 055010 (doi: 10.1063/1.5091975)**

2. **Ramovatar**, I. Coondoo, S. Satapathy, N. Panwar, Impact of Tin substitution on the structural, dielectric, ferroelectric and piezoelectric properties of $Ba_{0.98}Ca_{0.02}TiO_3$ ceramics, **Physica B: Condensed Matter 553 (2019) 68 –75 (doi.org/10.1016/j.physb.2018.10.039)**

3. **Ramovatar**, I. Coondoo, S. Satapathy, N. Kumar, N. Panwar, Dielectric, piezoelectric enhancement and photoluminescent behavior in low temperature sintered Pr – modified $Ba_{0.85}Ca_{0.15}Zr_{0.1}Ti_{0.9}O_3$ ceramics, **Journal of ELECTRONIC MATERIALS 47 (2018)**

5870 – 5878 (doi.org/10.1007/s11664-018-6472-6)

4. **Ramovatar**, I. Coondoo, S. Satapathy, N. Panwar, Structural, microstructural, ferroelectric and photoluminescent properties of Pr modified $Ba_{0.98}Ca_{0.02}Zr_{0.02}Ti_{0.98}O_3$ ceramics, **Ceram. Int. 44 (2018) 1690 –1698 (doi.org/10.1016/j.ceramint.2017.10.097)**

PARTICIPATED CONFERENCES/ WORKSHOPS

1. Presented poster in 2nd International Conference on Recent Trends in Materials Science and Technology 2018 (ICMST 2018) jointly organized by Indian Institute of Space Science and Technology (IIST) and Materials Research Society of India (MRSI), Thiruvananthapuram Chapter, October 10-13, 2018

2. Presented poster in MRSI symposium on Advances in Functional and Exotic Materials (AFEM-2018) and 29th Annual General body Meeting jointly organized by the Centre for High Pressure Research, School of Physics, Bharathidasan University, Tiruchirappalli – 620024 and MRSI – Trichy Chapter, February 14 -16, 2018

3. Presented poster in International Conference on Condensed Matter and Applied Physics (ICC-2017), Department of Physics, Govt. Engineering College, Bikaner, Rajasthan, November 24-25, 2017

4. Participated in School on Characterizations of Materials, Inter University Accelerator Centre (IUAC), New Delhi, 4 – 9 September, 2017

5. Presented poster in National Symposium on Technologically Advanced Functional Materials (NSTAFM-2017), Department of Physics, Central University of Rajasthan, March 16-17, 2017

6. Participated in National Workshop on Electron Microscopy and Allied Techniques (NWEMAT-2015), University of Delhi, Delhi, December 21-23, 2015

7. Participated in SERC School on Singe Crystal of Functional Materials and their Applications, SSN College of Engineering, Chennai, September 02-22, 2015

8. Participated in Science Academies Refresher Course in Experimental Physics, Central University of Rajasthan, Rajasthan, March 10-25, 2015

AWARDS & FELLOWSHIPS

1. Qualified GATE (Graduate Aptitude Test in Engineering), 2015 and 2016

2. Best presentation award in SERC School on Singe Crystal of Functional Materials and their Applications, SSN College of Engineering, Chennai, September 02-22, 2015

3. Awarded Rajiv Gandhi National Fellowship (RGNF) for JRF & SRF by University Grants Commission (UGC), New Delhi

PERSONAL SKILLS

Computational Skills

I have a high degree of computer literacy with excellent skills using Microsoft Office, particularly Excel, Word, Power Point, etc. I have done basic C and Fortran programming courses in my M. Sc.

Software Skills

FULLPROF (for structural refinement), VESTA (for structural models), EC – Lab (for impedance spectroscopic study), Origin (for data analysis) etc.

Experimental Skills

X-Ray Diffraction (XRD), Ferroelectric Loop Tracer, Impedance Analyzer, PL Spectrometer etc.

Material Synthesis Techniques

Solid-State Reaction Method, Sol-Gel Method and Solution Casting Method

REFERENCES

1. Dr. Neeraj Panwar
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Department of Physics
Central University of Rajasthan (CURAJ)
Ajmer (India) 305817
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2. Dr. S. Satapathy
Scientist - G
Laser Materials Section
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3. Dr. Pradip Kumar
Senior Scientist
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Near Habibganj Naka, Bhopal-462026
Email(s): - pkgangwar84@gmail.com
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