

List of Publications

A. Publications in Peer-Reviewed Journals

1. **Effects of iso- and polyvalent substitutions on the short/long-range crystalline order in CuCrO_2 compounds**
Nishant Barot, Prashant K. Mehta, Ashok Rao, Riya Thomas, and Yung-Kang Kuo *Journal of Alloys and Compounds*, 791 (2019) 134-143.
2. **Role of Charge doping and distortions on the structural, electrical and magnetic properties of modified CuFeO_2 compounds**
Nishant Barot, Prashant K. Mehta, Ashok Rao, Riya Thomas, Yung-Kang Kuo and S. K. Mishra *Journal of Applied Physics* 127 (2020) 175704.

B. Publications in Proceedings of the International and National Conferences

1. **Structure, I-V characteristics and optical studies of delafossite CuFeO_2 and $\text{CuFe}_{0.96}\text{Ti}_{0.03}\text{V}_{0.01}\text{O}_2$ prepared under high vacuum**
Nishant Barot, Prashant K. Mehta, Devang D. Shah and C. J. Panchal *AIP Conference Proceedings* 1837 (2017) 040031.
2. **Structure, microstructure and dielectric studies of PVA/ $\text{Sr}(\text{Co}_{1/3}\text{Nb}_{2/3})\text{O}_3$ polymer composites**
Nishant Barot, Bhagwati Bishnoi, Sagufta Jahaan, Prashant K. Mehta and N. L. Singh *Invertis Journal of Science and Technology* 10 (2017) 64-72.
3. **Dielectric Behavior of Nanostructured $\text{Y}_{0.95}\text{Ca}_{0.05}\text{MnO}_3$: Role of Sintering Temperature**
Zalak Joshi, Davit Dhruv, Sanjay Kansara, Megha Vagadia, Nishant Barot, P.K. Mehta, P.S. Solanki, D.G. Kuberkar, and N.A. Shah *AIP Conference Proceedings*, 1591 (2014) 1306-1308.

B. List of Conferences and workshops attended

1. **Effect of doping on the structure, local structure, electrical and magnetic properties of CuFeO_2 compounds**
Nishant Barot and Prashant K. Mehta, Oral presentation, Annual Science Day Celebrations, CRS Research Scholars' Workshop, UGC-DAE Consortium for Scientific Research, Indore (2019).

2. **Structure, Electrical and Optical studies of Delafossite CuCrO_2 and $\text{CuCr}_{0.96}\text{Mn}_{0.03}\text{V}_{0.01}\text{O}_2$**
Nishant Barot and Prashant K. Mehta, Poster presentation, National conference on Recent Trends in Materials Science, Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara (2018).
3. **Structure, Microstructure, Dielectric and Optical Studies of $\text{PVA/Sr}(\text{Co}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Polymer Composites**
Nishant Barot, Bhagwati Bishnoi, Sagufta Jahan, Prashant. K. Mehta, and N. L. Singh, Poster Presentation, National Conference on Material Characterization, Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara (18th -19th March, 2016).
4. **Structure, I-V characteristics and optical studies of delafossite CuFeO_2 and $\text{CuFe}_{0.96}\text{Ti}_{0.03}\text{V}_{0.01}\text{O}_2$ prepared under high vacuum**
Nishant Barot, Prashant K. Mehta, Devang D. Shah and C. J. Panchal, Poster presentation, International conference on Functional Oxides and Nanomaterials, Saurashtra University, Rajkot (11th-13th November 2016).
5. **One day Seminar on Condensed Matter Physics and Short Term Training School on X-Ray diffraction Techniques**, Department of Physics, Sardar Patel University and Physics Alumni Association, Vallabh Vidhyanagar, Gujarat (3rd-8th March 2014).
6. **National Workshop on Surrogate Reactions and Its Applications** jointly organized by Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara and DAE-BRNS, at Department of Physics, Faculty of Science, The Maharaja Sayajirao university of Baroda, Vadodara (24th -25th January 2013).
7. **Seminar on Preparation and Characterization of Crystalline and Non-crystalline Solids**, Department of Physics, Faculty of Science, The Maharaja Sayajirao university of Baroda, Vadodara, Gujarat (2nd November 2012).
8. **Lecture workshop on ‘Science of Molecular Materials, Electronics and Energy Applications’**, Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (3rd-5th October 2012).
9. **One day seminar on ‘Material Characterisation by using Thermal Analysis, Rheology and Microcalorimetry’**, ISAS – Baroda Chapter in association with Department of Chemistry, The Maharaja Sayajirao university of Baroda and TA

instruments, Prof. S. S. Merh Seminar Hall, Department of Geology, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (21st August 2012).

10. Effect of V₂O₅ addition on the dielectric properties of relaxor Ba[Fe_{1/2}Nb_{1/2}]O₃ ceramics

Nishant Barot, Devang D. Shah and P.K. Mehta, Poster presentation, National workshop on Functional oxides, Nanomaterials and Devices, Department of Physics, Saurashtra University, Rajkot, Gujarat (1st-2nd March 2012).

11. One day Workshop on Advanced Techniques of Materials Characterization,

Jointly organized by Indian Institute of Metals, Baroda Chapter and Department of Metallurgical and Materials Engineering of M. S. University of Baroda held at Hotel Royal Orchid Central, Vadodara, Gujarat (21st January 2012).