LIST OF PUBLICATIONS

- 1. Electric Field Induced Structural Transformation across the Morphotropic Phase Boundary of (1-x)Bi(Mg_{1/2}Ti_{1/2})O₃-xPbTiO₃ Piezoceramic, **Ashutosh Upadhyay** and Akhilesh Kumar Singh, *Scripta mater.* **115**, 71-74 (2016).
- 2. Grain Size Dependent Phase Stability and Presence of a Monoclinic (Pm) Phase in the Morphotropic Phase Boundary Region of (1-x)Bi(Mg_{1/2}Ti_{1/2})O₃-xPbTiO₃ Piezoceramics, **Ashutosh Upadhyay** and Akhilesh Kumar Singh, *J. Appl. Phys.* **117**, 144102 (2015).
- 3. Phase Coexistence and the Structure of the MPB Region in (1-x)Bi(Mg_{1/2}Zr_{1/2})O₃-xPbTiO₃ Solid Solution, *Rishikesh Pandey*, Ashish Tiwari, **Ashutosh Upadhyay** and Akhilesh Kumar Singh, *Acta Mater.* **76**, 198-206 (2014).
- 4. Electronic Structural and stability of Hydrogen Defects in Diamond and Boron Doped Diamond: A Density Functional Theory Study, **Ashutosh Upadhyay**, Akhilesh Kumar Singh, and Amit Kumar, *Comp. Mater. Sci.* 89, 257-263 (2014).
- 5. Synthesis and Characterization of (1-x)Bi(Mg_{2/3}Sb_{1/3})O₃-xPbTiO₃ Piezoceramics, **Ashutosh Upadhyay**, Saurabh Dwivedi, Rishikesh Pandey, and Akhilesh Kumar Singh, *AIP Conf. proc.* **1731**, 030004 (2016).
- 6. Synthesis and Structural studies on (1-x)Bi(Mg_{1/2}Ti_{1/2})O₃-xPbTiO₃ Piezoceramics, **Ashutosh Upadhyay**, Rishikesh Pandey, Shashwat Anand and Akhilesh Kumar Singh, *AIP Conf. proc.* **1591**, 79 (2014).

Participation in Schools/ Workshops/ Symposiums/ Conferences

- 1. Participated in the "Institute Day IIT (BHU), Varanasi from April 2-3, 2016" "Synthesis and Characterization of (1-x)Bi(Mg_{2/3}Sb_{1/3})O₃-xPbTiO₃ Piezoceramics" (*Poster Presentation*).
- 2. Paper Presented in "60th DAE Solid State Physics Symposium" at Amity University, Noida U. P., India, from Dec. 21-25, 2015 (*Poster Presentation*).
- 3. Participated in International Workshop on "Symmetry Relationships between Crystal Structures with Application to Structural Phase Transition" by International Union of Crystallography (IUCr) at IIT (BHU) Varanasi, from Oct. 27-31, 2014.
- 4. Participated in MASTANI Summer School on "MAterials Simulation Theory and NumerIcs" at IISER-Pune, from Jun 30 July 12, 2014.
- 5. Participated in workshop on "High Performance Computing" at Inter University Accelerator Centre, New Delhi, from May 5-6, 2014.
- 6. Participated in Winter School on "Practical Crystallography and Structure Solution" at Department of physics, Banaras Hindu University, Varanasi, from March 5-11, 2014.
- 7. Participated in "Author workshop jointly organized by Springer and IIT (BHU)" Varanasi, India, on Feb. 10, 2014.
- 8. Paper Presented in "58th DAE Solid State Physics Symposium" at Thapar University, Patiala, India, from Dec. 17-21, 2013. "Synthesis and Structural Studies on (1-x)Bi(Mg_{1/2}Ti_{1/2})O₃-xPbTiO₃ Piezoceramics" (*Poster Presentation*).
- 9. Participated in "42nd National Seminar on Crystallography and International Workshop on Application of X-ray Diffraction for Drug Discovery" at Jawaharlal Nehru University New Delhi, From Nov. 21-23, 2013. "Structural Characterization of Piezoelectric (1-x)Bi(Mg_{1/2}Ti_{1/2})O₃-xPbTiO₃ Ceramics in the morphotropic Phase Boundary Region" (*Oral Speaker*).
- 10. Participated in "International Conference on Nanoscience and NanoTechnology (ICNN-2013)" at Babasaheb Bhimrao Ambedkar University Lucknow India from Nov. 18-20, 2013. "Electronic Structure and Optical Properties of Scintillating Barium di-Halides" (*Poster Presentation*).

- 11. Participated in Garuda Boot Camp on "National Computational Grid (GBC-2013), March 6-7, 2013 at IIT (BHU), Varanasi.
- 12. Participated in workshop on "Electroactive Materials" from Apr. 22-23, 2012 at SMST, IIT (BHU) Varanasi.
- 13. Participated in Theory and Practical Sessions of workshop on "Materials Modelling and Simulation" Dec. 27-31, 2010 at Centre for Modelling Simulation and Design, University of Hyderabad, India.