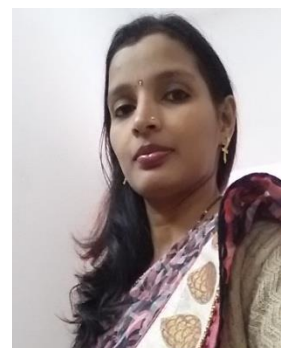


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Research Interest: Vibrational Modes, Raman and infrared frequencies, Aurivillius Oxides, Wilson Matrix Method, DFT.



Number of Conferences attended: 6

Publications:

1. **Archana** and H.C. Gupta, "Investigation of Raman and infrared phonon modes in case of barium bismuth tantalate ($\text{BaBi}_2\text{Ta}_2\text{O}_9$)", *Vibrational Spectroscopy* 68 (2013) 129-132.
2. H.C. Gupta, **Archana** and Vandna Luthra, "A lattice dynamical investigation for the Raman and the infrared frequencies of $\text{Bi}_2\text{W}_2\text{O}_9$ ", *Physica B* 407 (2012) 477-484.
3. H.C. Gupta, **Archana** and Vandna Luthra, "Lattice dynamical investigations for Raman and infrared frequencies of Bi_2WO_6 ", *J. of Molecular Structure* 1005 (2011) 53-58.
4. H.C. Gupta, **Archana** and Vandna Luthra, "Lattice dynamical vibrations of $\text{ABi}_2\text{Nb}_2\text{O}_9$ crystals ($\text{A}=\text{Ca}, \text{Sr}, \text{Ba}$)", *Vibrational Spectroscopy* 56 (2011) 235.
5. H.C. Gupta, **Archana** and Vandna Luthra, "A lattice dynamical investigation for the Raman and the infrared wavenumbers of $\text{SrBi}_2\text{Ta}_2\text{O}_9$ ", *J. of Molecular Structure* 984 (2010) 204.