List of Publications: (as on January 2012)


5. Substrate effect on the elastic properties of Ga$_x$In$_{1-x}$As$_y$Sb$_{1-y}$ semiconductor, *American Institute of Physics CP 1393* (2011) 139.


Papers presented at Conferences/ Symposia/ Workshops

1. Certain Elastic Properties of Cd$_{1-x}$Zn$_x$Te Semiconductors, 3rd National Conference on Condensed Matter and Material Physics (CMMP-2012) will be held at Department of Physics, Sardar Patel University, Vallabh Vidyanagar (3rd – 5th March 2012). (accepted for presentation)

2. Refractive Index of Ba$_{1-x}$P$_x$ semiconductors, National symposium on Advances in Materials Science and Technology (AMST-2012) will be held at Department of Physics, University School of Sciences, Gujarat University, Ahmedabad (3rd – 4th February 2012). (accepted for presentation)


5. Elastic Properties of Ga$_x$Al$_{1-x}$As$_y$Sb$_{1-y}$ Lattice Matched to Different Substrates, National conference on recent trends in materials science (RTMS-2011) held at Jaypee University of Information Technology (JUIT), Shimla (8th -10th October 2011).


7. Substrate effect on the elastic properties of Ga$_x$In$_{1-x}$As$_y$Sb$_{1-y}$ semiconductor, International Conference on Advances In Condensed & Nano Materials (ICACNM-2011) held at Panjab University, Chandigarh (23rd – 26th February 2011).
8. On the elastic properties of GaAs$_x$Sb$_{1-x}$ semiconductor, National Conference on Recent Trends in Theoretical and Experimental Physics (NCRTTEP-2011), Department of Physics, V P & R P T P Science College, VVNagar (18th – 19th February 2011).


10. Elastic constants of Ga$_x$In$_{1-x}$As semiconductor, 55th DAE Solid State Physics Symposium, Manipal University (26th – 30th December 2010).


12. Calculation of elastic properties of quaternary alloy Ga$_x$Al$_{1-x}$As$_y$Sb$_{1-y}$/InAs, INDIAS: 2010, 4th International conference, University of Allahabad, Allahabad, (19th – 21st September 2010).

13. Application of pseudopotential theory to the quaternary alloy Ga$_x$Al$_{1-x}$As$_y$Sb$_{1-y}$, Gujarat Science Congress (XXIV GSC-2010), Gujarat University, Ahmedabad (21st March 2010).

14. On some physical properties of Si$_{1-x}$Ge$_x$ semiconductors, 54th DAE Solid State Physics Symposium, M. S. University, Baroda (14th – 18th December 2009).

15. Investigation of some physical properties of Si$_{1-x}$Sn$_x$ semiconductors, Gujarat Science Congress (XXIII GSC-2009), Veer Narmad South Gujarat University, Surat (15th February 2009).

17. Total energy and bulk modulus of Si$_x$Ge$_{1-x}$, Si$_x$αSn$_{1-x}$ and Ge$_x$αSn$_{1-x}$ solid solutions using pseudo-alloy atom approach, Gujarat Science Congress (XXII GSC-2008), Bhavnagar University, Bhavnagar (9th March 2008).

18. Total energy of some FCC metals by model potentials, Gujarat Science Congress (XXII GSC-2008), Bhavnagar University, Bhavnagar (9th March 2008).