

## Publications (In Journal):

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2014

- **Satyam Shinde**, Sanjay Gupta, Sanjeev Gupta and Prafulla Jha, *Lattice Dynamical Study of Yttrium monochalcogenides*, Computational Material Science (92), 69-75, (2014).

2013

- Nikita Rathod, Sanjeev Gupta, **Satyam Shinde** and P K Jha , Ab-initio first principles total energy and lattice dynamical calculations of PdC, Computational material Science, 70, 196-200 (2013).
- Nikita Rathod, Sanjeev Gupta, **Satyam Shinde** and P K Jha, First-principles investigations of Thermophysical properties of cubic ZrC under high pressure, International Journal of Thermophysics, Vol-34, Issue 10, 2019-2016, 2013.

2010

- **Satyam Shinde**, Ankur Pandya and P.K. Jha, *Pressure induced stiffening and softening in Phosphide*, Indian Journal of Pure and Applied Physics, Vol.-48, August 2010, Page 543-549,2010.

2009

- Ankur Pandya, **Satyam Shinde**, P.K.Jha, *Hot electron scattering Rates via LO- Phonon emission in Two Dimensional GaAs<sub>1-x</sub>N<sub>x</sub>*, Indian Journal of Pure and Applied Physics, Vol-47,523-526, 2009.
- **Satyam Shinde** and P K Jha, *Lattice dynamics of ferromagnetic superconductor UGe<sub>2</sub>*, Pramana-Journal of Physics, Vol-75, No.5, pp1-5, 2008.

2006

- **Satyam Shinde**, Ankur Pandya and P.K.Jha, *Mechanical, Elastic and Anharmonic properties of Zn<sub>1-x</sub>Cr<sub>x</sub>Te (0≤X≤1) diluted magnetic semiconductor*, Indian Journal of Pure and Applied Physics, 44-148, 2006.

2004

- Mina Talati, **Satyam Shinde**, P. K. Jha, *High Pressure Phase transition and anharmonic properties of Zn<sub>1-x</sub>M<sub>x</sub>Se (M=Cd, Fe, Mn) Diluted Magnetic Semiconductors*, Physica B, 348, 235-241, 2004.
- **Satyam Shinde**, M.Talati, S.P.Sanyal and P.K.Jha, *Theoretical Study of transverse acoustic phonons of GaSb at high pressure*, Pramana, 63, 425-429.

## List of Paper Presented and published in Proceedings of conferences

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- Nikita Rathod, **Satyam Shinde**, Sanjeev Gupta and P.k.Jha, Structural and dynamical properties of zirconium carbide using first principles calculation, presented at Asia Sweden meeting on functional lattice dynamics, IIT-Guwahati, January 2014.

- **Satyam Shinde**, Sanjay Gupta, Sanjeev Gupta and P.K.Jha, Lattice dynamics and thermodynamical study of yttrium monochalcogenides, National Conference on new trends in physics and material science, CSA PG College, Bhopal, September 2013.
- Nikita Rathod, Sanjeev Gupta, **Satyam Shinde** and P K Jha , *Ab-initio first principles total energy and lattice dynamical calculations of PdC*, Presented at *Condensed Matter and Material Physics (CMMP-2012) conference*, Vidyanagar, March 2012.
- Vishal\_R. Shah, Himadri R. Soni, Nikita Rathod, **Satyam Shinde** and Prafulla. K. Jha, A First Principles Calculation of the Structural and Electronic Properties of Some Cubic Intermetallic Compounds, Presented at *International Conference on High Pressure Science and Technology*, BARC-25-30 Sept. 2011.
- V. Mankad, S Gupta, **S Shinde**, S Pillai and P.K. Jha, *Tailoring the Size of ZnO Nanocrystals*, Accepted for presentation and publication of proceedings of *international conference NUICONE-2010*, Nirma University.
- **Satyam Shinde**, Ankur Pandya and P.K. Jha, *Pressure Dependent Lattice Specific Heat and Mode Grüneisen Parameters for Group III Nitrides*, *Proceedings of American Institute of Physics*, 2010, Volume 1249, Page No. 174
- **Satyam Shinde**, Ankur Pandya, Sanjay Gupta and P.K. Jha, *Phonon properties of III-Nitrides and Phosphides*, Proceedings of 54<sup>th</sup> DAE Solid State Physics Symposium 2009.
- S K Gupta, **Satyam Shinde** & P K Jha, *Density functional theoretical calculation of electronic structure and zone center phonons in noble nitride PtN*, Proceedings of 52<sup>nd</sup> DAE-Solid State Physics Symposium.
- Ankur Pandya, **Satyam Shinde** and P.K. Jha *Hot electron scattering Rates via LO- phonon emission in Two Dimensional GaAs<sub>1-x</sub>N<sub>x</sub>*, Proceedings of 51<sup>st</sup> DAE Solid State Physics Symposium.
- **Satyam Shinde** and P.K. Jha, *Lattice Vibrations in Zinc Blende MgS*, Proceedings of 46<sup>th</sup> DAE Solid State Physics Symposium **46**, 581.