Appendix - I

List of Publications in National/International Journals

1. Synthesis, structural and optical characterization of GeS_xSe_{1-x} single crystals grown by direct vapour transport (DVT) technique.


2. Synthesis of GeTe_{0.1}Se_{0.9} Single crystals and its structural and optical characterization.


4. Growth and Thermal Properties of GeSePb_{0.4} Single crystals


5. Thermal Parameters of Direct Vapor Transport (DVT) Technique Grown GeSePb_{0.2} Single Crystals.


6. Growth of GeS_{0.25}Se_{0.75} Single Crystals and their Evaluation as Photoelectrochemical Solar Cell.


7. DVT Grown GeSe Single Crystals and Their Thermal Parameters in N_2
Ruchita R. Patel, G. K. Solanki, N. N. Gosai, & Rahul B. Patel


8. Growth and Optical Characterization of DVT Grown SnSe0.5Te0.5 Single Crystals.


Appendix - II

Papers presented at Conferences/Symposiums/Seminars/Workshops

  1. Effect of enhancement of Selenium content in Germanium Sulphoselenide single crystals on its optical Properties.

- **National conference on recent trends in material science (RTMS- 2011)” organized by Jaypee University of Information Technology, Waknaghat, Solan (Himachal Pradesh), during (8 – 10) October- 2011.**
  1. Optical constants of Chemical Vapor Transport Grown SnSe_{0.5}Te_{0.5} Single Crystals.
  2. Synthesis and characterization of doped GeSeFe_{0.02} single crystals by vapour phase technique.

- **56th DAE Solid State Physics Symposium, SRM University, Kattankulathur, Tamilnadu, December 19-23, 2011**
  1. Growth and Thermal Properties of GeSePb_{0.4} Single crystals
     G. K. Solanki, K. D. Patel N. N. Gosai and **Ruchita Patel**.

- **3rd National conference on Condensed Matter and Materials Physics, CMPP - 2012, March 3-5, 2012**
  1. Synthesis and characterization of GeS_{0.5}Se_{0.5} (I_2) single crystals.
G. K. Solanki, Sandip Unadkat, **Ruchita R. Patel** and Yunus Gafur mansur.

2. Growth and Optical Characterization of DVT grown SnSe$_{0.5}$Te$_{0.5}$ single crystals.

Conferences and Workshops Attended


7. “One day seminar on innovation in collegiate Science education and Research” held on 8th January-2011. V.P. and R.P.T.P. science college,Vallabh Vidyanagar, Gujarat


15. Two day symposium on innovations in science-SPU research scholars meet (ISSPURSM- 2012) Department of Physics, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 8 – 9 January 2012.