

**List of
Publications and Presentations**

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(a) Refereed journals

- 1. Effect of wavelength and intensity of illumination on the photoelectronic properties of CdSe thin films.**
K. Sarmah, R. Sarma, and H. L. Das.
The paper was published in, *Indian Journal of Physics* (Vol. 82; No. 5; 585-594, 2008)
- 2. Trap depth analysis of thermally deposited CdSe thin films.**
K. Sarmah, R. Sarma, and H. L. Das.
The paper was published in, *Optoelectronics and Advanced Materials – Rapid Communications* (Vol. 2, No. 5, 262-266, 2008).
- 3. Vacuum evaporated CdSe thin films and its some spectral response characteristics.**
The paper was published in, *Journal of Physics : Conference Series*, (114, 2008, 012041)
- 4. Structural characterization of thermally evaporated CdSe thin films.**
K. Sarmah, R. Sarma and H. L. Das.
The paper was published in, *Chalcogenide Letters* (Vol. 5, No. 8, 153-163, 2008).
- 5. Mobility activation in thermally deposited Cdse thin films.**
K. Sarmah, R. Sarma and H. L. Das.
The paper has been communicated to, *Bulletin of Materials Science* (2008) for publication.

(b) Proceedings publications

(i) International conference

- 1. Temperature dependence of some optoelectronic properties of CdSe thin films.**
K. Sarmah, R. Sarma and H. L. Das.
The paper was published in the Proceedings of 8th Asian Thermophysical Properties Conference (ATPC 2007), held at Kyushu University, Fukuoka, Japan.

(ii) National conference, seminar etc.

1. Structural characterization of vacuum evaporated CdSe thin films.

K. Sarmah and H. L. Das.

The paper was published in the Proceedings of 52nd DAE Solid State Physics Symposium (DAE SSPS 2007), held at Mysore University, Mysore.

2. Study of some optoelectronic properties of gap type Al/CdSe/Al structure.

K. Sarmah, R. Sarma and H. L. Das.

The paper was published in the Proceedings of XXXIII Optical Society of India (OSI) Symposium on Optics and Optoelectronics held at Tezpur University, Tezpur.

3. Some electronic properties of CdSe thin films sensitive to heat and light.

K. Sarmah, R. Sarma, and H. L. Das.

The paper was published in the Proceedings of 12th National Seminar on Physics and Technology of Sensors (NSPTS-12), organized by Bhabha Atomic Research Center (BARC), Mumbai.

4. Characterization of some optoelectronic properties of CdSe thin films.

K. Sarmah and H. L. Das.

The paper was published in the Proceedings of 51st DAE Solid State Physics Symposium (DAE SSPS 2006), held at Barkatullah University, Bhopal.

5. Optoelectronic properties of vacuum evaporated CdSe thin films.

K. Sarmah and H. L. Das.

The paper was published in the Proceedings of National Conference on Recent Advances in Material Science (RAMS 2006) held at Kurukshetra University, Kurukshetra.

6. Structural characterization of ZnTe thin films using X-ray line broadening analysis technique.

N. Mazumdar, R. Sarma, K. Sarmah, B. K. Sarma and H. L. Das

The paper was published in the Proceedings of 50th DAE Solid State Physics Symposium (DAE SSPS 2005), held at Bhabha Atomic Research Center (BARC), Mumbai.

(c) Paper presentations

(i) International conference

1. Temperature dependence of some optoelectronic properties of CdSe thin films.

K. Sarmah, R. Sarma and H. L. Das.

The paper was presented at the 8th Asian Thermophysical Properties Conference (ATPC 2007) held at Kyushu University, Fukuoka, Japan during August 21-24, 2007.

(ii) National conference, seminar etc.

1. Study of some optoelectronic properties of gap type Al/CdSe/Al structure.

K. Sarmah, R. Sarma and H. L. Das.

The paper was presented at the XXXIII Optical Society of India (OSI) Symposium on Optics & Optoelectronics held at Tezpur University, Tezpur during December 18-20, 2007.

2. Photoconducting properties of thermally evaporated polycrystalline CdSe thin films.

K. Sarmah, R. Sarma and H. L. Das.

The paper was presented at the 52nd Annual Technical Session 2006-07 of Assam Science Society, held at Cotton College, Guwahati, on 18th March, 2007.

3. Effect of wavelength and intensity of illumination on the photoelectric properties of CdSe thin films.

K. Sarmah, R. Sarma and H. L. Das

The paper was presented at the Vth Conference of Physics Academy of the North East (Vth PANE) held at Gauhati University, Guwahati, during March 1 - 2, 2007.

4. On the optoelectronic properties of CdSe thin films.

K. Sarmah and H. L. Das

The paper was presented at the 2nd National Conference on Condensed Matter and Material Physics (CMMP 07), held at Rajasthan University, Jaipur during February 1-3, 2007.

5. Characterization of some optoelectronic properties of CdSe thin films.

K. Sarmah and H. L. Das.

The paper was presented at the 51st DAE Solid State Physics Symposium, (DAE-SSPS 2006) held at Barkatullah University, Bhopal during December 26-30, 2006.

6. Optoelectronic properties of vacuum evaporated CdSe thin films.

K. Sarmah and H. L. Das.

The paper was presented at the National Conference on Recent Advances in Material Science (RAMS 2006) held at Kurukshetra University, Kurukshetra during Sept. 27-29, 2006.

7. Spectral response characteristics of photoelectronic properties of PVD-TE CdSe thin films.

K. Sarmah, N. Mazumdar, R. Sarma, and H. L. Das.

The paper was presented at the National Symposium on Condensed Matter Science, Condensed Matter Days-2006 (CMDAYS – 06) held at Tezpur University, Tezpur during August 29-31, 2006.

8. Study of some electrical & optical properties of vacuum evaporated CdSe thin films.

K. Sarmah, R. Sarma, N. Mazumdar, and H. L. Das

The paper was presented at the 3rd National Conference on Thermophysical Properties (NCTP 2005) held at Goa University, Goa during January 19-20, 2005.

9. Temperature dependence of electrical conduction mechanism in ZnS thin films.

K. Sarmah, R. Sarma, N. Mazumdar and H. L. Das,

The paper was presented at the National Symposium on Condensed Matter Science, Condensed Matter Days - 2004 (CMDAYS-04) held at NEHU, Shillong during August 25-27, 2004.

(d) Papers accepted for presentation

(i) International conference, workshop etc.

1. Transport properties of thermally deposited and heat treated CdSe thin films

K. Sarmah, R. Sarma and H. L. Das.

The paper has been accepted for presentation at the 7th International Symposium on Heat Transfer to be held at University of Science and Technology; Beijing, China

during October 26-29, 2008.

2. Structural Characterization of Thermally Evaporated CdSe Thin Films

K. Sarmah, R. Sarma and H. L. Das.

The paper was accepted for presentation at the 18th European Conference on Thermo physical Properties held at Laboratory of Complex Fluids; Pau, France during August 31- September 4, 2008.

3. Study of some general photosensitive properties of optoelectronic CdSe thin films

K. Sarmah, R. Sarma and H. L. Das.

The paper was accepted for presentation at the 4th International Conference on Technological Advances of Thin Films & Surface Coatings (Thin Films 2008) held at Tianjin University & Nanyang Technological University, Singapore during 13-16 July, 2008.

4. Optoelectronic phenomenon behind a typical Al/CdSe/Al structure.

K. Sarmah, R. Sarma and H. L. Das.

The paper was accepted for presentation at the 14th International Workshop on the Physics of Semiconductor Devices (IWPSD) held at Indian Institute of Technology, Bombay during December 16-20, 2007.

5. Vacuum evaporated CdSe thin films and its some spectral response characteristics.

K. Sarmah, R. Sarma and H. L. Das.

The paper was accepted for presentation at the International Symposium on Vacuum Science & Technology (IVS-2007) held at Bhabha Atomic Research Center (BARC), Mumbai during 28-30 November, 2007.

(ii) National conference, seminar etc.

1. Trap depth characterization of vacuum evaporated CdSe thin films

K. Sarmah, R. Sarma, and H. L. Das.

The paper has been accepted for presentation at the 53rd DAE Solid State Physics Symposium (DAE-SSPS 2008) to be held at Bhabha Atomic Research Center (BARC) Mumbai during December 16-20, 2008.

2. Some photoelectronic properties of thermally evaporated CdSe thin films.

K. Sarmah, R. Sarma, and H. L. Das.

The paper was accepted for presentation in the 4th National Conference on Thermo Physical Properties (NCTP 2007) held at Amrita Vishwa Vidyapeetham University, Kollam during September 20-22, 2007.

3. Conduction mechanism of thermally evaporated polycrystalline CdSe thin films.

K. Sarmah, R. Sarma and H. L. Das.

The paper was accepted for presentation at the National Symposium on Condensed Matter Science, Condensed Matter Days -2007 (CMDAYS – 07) held at National Institute of Technology, Rourkela during August 29-31, 2007.

4. Some spectral response characteristics of CdSe thin films having optoelectronic importance.

K. Sarmah, R. Sarma and H. L. Das.

The paper was accepted for presentation at the 3rd National Conference on Advances in Electronic Materials & Devices (AEMD 2007) at Guru Ghasidas University, Bilaspur, during March 25 – 26, 2007.

5. Defect controlled photoconductivity of CdSe thin films.

K. Sarmah, R. Sarma and H. L. Das.

The paper was accepted for presentation at the International Conference on Materials for the Millennium (Mat Con 2007) held at Cochin University of Science and Technology, Kochi during March 1-3, 2007.

6. CdSe thin films and some photoelectronic properties of it.

K. Sarmah, R. Sarma and H. L. Das.

The paper was accepted for presentation at the National Conference on Current Trends in Materials Research for Advanced Technology (NCMRAT 2007) at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, during January 29-31, 2007.
