

LIST OF PUBLICATIONS

LIST OF PATENTS:

1. IM Dharmadasa, J Young, AP Samantilleke and NB Chaure.
Thin Film photovoltaic device and method of making the same, GB 2384621, published on 30 July 2003.
2. IM Dharmadasa, J Young, T Delsol and AP Samantilleke
Copper-indium based thin film PV devices and methods of making the same; GB 2396868, published on 7 July 2004.
3. IM Dharmadasa, J Young, AP Samantilleke and NB Chaure.
Thin film photovoltaic devices and method of making the same; GB 2397944, published on 4 August 2004.
4. IM Dharmadasa, J Young, AP Samantilleke and NB Chaure.
Thin film photovoltaic devices and method of making the same; GB 2397945, published on 4 August 2004.
5. IM Dharmadasa, J Young, AP Samantilleke and NB Chaure.
CdTe based multi-layer graded bandgap photovoltaic devices; GB 2397946, published on 4 August 2004.
6. IM Dharmadasa, J Young, AP Samantilleke and NB Chaure.
Fabrication of Semiconductor Devices; GB 2400725, published on 20 October 2004.

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8. Cadmium Telluride/Langmuir Film Photovoltaic structures. Dharmadasa IM, Roberts GG and Petty MC, Electronic Letters, 13 March 1980, Vol 16, No 6, pp201-202.
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17. Applications of GDOES for characterisation of Electronic Materials and Devices. IM Dharmadasa, M Ives, C Breen, G Hill, M Hopkins and CC Button. 1st Int. Conf. on Materials for Optoelectronics. August 1995, Sheffield Hallam University.
18. Electricity from Sunlight. IM Dharmadasa. 3 Public lectures were given during the British Council funded tour in Sri Lankan universities. October 1995.
19. Growth & Characterisation of Semiconductors., IM Dharmadasa. Conference on “Low cost Semiconductor Materials & Devices”. Univ. of Peradeniya, Sri Lanka, March 1996.
20. Thin film Semiconductor Devices., IM Dharmadasa. Conference on “Low cost Semiconductor Materials and Devices”. Univ. of Peradeniya, Sri Lanka, March 1996.
21. Electricity from the Sun., IM Dharmadasa. Public Lecture at Sri Lankan Association for the Advancement of Science. Colombo, Sri Lanka, March 1996.
22. Electrical Contacts to II-VI Semiconductors: CdTe, CdS, ZnSe., IM Dharmadasa. UK II-VI interaction meeting. Univ. of Durham (18-19 March 1996).
23. Use of plasma sources and mass spectroscopy in characterisation of electronic materials and devices., IM Dharmadasa. 5th International conference on plasma source mass spectrometry. Univ. of Durham., Sep. 1996.
24. Growth of thin film Infra-red materials using electrochemical deposition., J-J McChesney, DJ Mowthorpe, IM Dharmadasa and J Haigh. International conference on mid-Infra red optoelectronics materials and devices. Univ. of Lancaster, Sep. 1996.
25. Ballistic electron emission microscopy; A new technique using a scanning tunnelling microscope for solar cell characterisation. IM Dharmadasa, Proc. of workshop on Low cost electronic materials and solar cells. March 1997, Colombo Sri Lanka.
26. Glow Discharge optical emission spectroscopy; A new technique for characterisation of thin film solar cells. IM Dharmadasa, Proc. of workshop on Low cost electronic materials and solar cells. March 1997, Colombo Sri Lanka.
27. Growth and characterisation of $\text{CdS}_x\text{Se}_{(1-x)}$ ternary compounds for utilisation in liquid/solid junctions and solid state solar cells. K Premaratne, SN Akurantilleke, IM Dharmadasa and AP Samantilleke. Proc. of the workshop on Low cost electronic materials and solar cells, March 1997, Colombo, Sri Lanka.
28. Electrical contacts to II-VI Semiconductors. I M Dharmadasa, II-VI Semiconductor meeting held at Univ. of East Anglia, Norwich. 17-18 April 1997.
29. Growth and doping of ZnSe layers using Electrodeposition. IM Dharmadasa, AP Samantilleke, J Young and MH Boyle. Oral presentation at the BACG conference held at Univ. of York - UK, 21-23 September 1997.
30. Clean Energy for the future; The role of photovoltaics as an energy source for the twenty first century. **Plenary Lecture**; IM Dharmadasa, Proc. of workshop on “Renewable Energy Sources”, 10-11 February 98, Colombo, Sri Lanka.

31. Electrodeposited ZnSe layers for development of high efficiency multi-layer solar cells. IM Dharmadasa, AP Samantilleke, J Young and MH Boyle, Proc. of the workshop on Renewable Energy Sources, 10-11 February 1998, Colombo, Sri Lanka.
32. Study of CdS-based thin films for applications in solar cells. K Premaratne, OA Ileperuma, SN Akuranthilake, L Withana and IM Dharmadasa. Proc. of the workshop on Renewable Energy Sources, 10-11 February 1998, Colombo, Sri Lanka.
33. Electrodeposited n- and p-type ZnSe for use in large area devices. IM Dharmadasa, AP Samantilleke, J Young & MH Boyle., II-VI Semiconductor meeting held at Heriot-Watt University, 3-4 April 1998.
34. Growth of ZnSe, CdSe and CdTe for multi-layer thin film solar cells. IM Dharmadasa, AP Samantilleke, J Young, MH Boyle, R Bacewicz and A Wolska. Oral presentation at the BACG conference held at NEWI - UK, 6 - 8 September 1998.
35. Electrodeposited ZnSe, CdSe & CdTe layers for light emitting devices and multi-layer tandem solar cells. IM Dharmadasa, AP Samantilleke, J Young, MH Boyle, R Bacewicz and A Wolska. Oral presentation at ICMM2 conference held in Bordeaux - France, 14 -15 September 1998.
36. Glow discharge optical emission spectroscopy for characterisation of semiconducting materials and device structures. IM Dharmadasa, M Ives and C Breen. CMMP98, 21-23 December 1998, UMIST, Manchester.
37. Development of electronic devices using electrodeposited n-type and p-type ZnSe thin films. IM Dharmadasa., Proc. of the workshop on Renewable Energy Sources, Univ. of Peradeniya, Sri Lanka, 4-5 March (1999) pp 8-16.
38. Photo-voltaic solar energy conversion: A new technology for alleviation of poverty in the world. **Plenary Lecture;** IM Dharmadasa, Proc. of the workshop on Renewable Energy Sources, Univ. of Peradeniya, Sri Lanka, 4-5 March (1999) pp 19-23.
39. Growth and characterisation of CuInSe₂ thin films. RP Wijesundara, W Siripala, KD Jayasuriya, SRD Kalingamudali, KTL De Silva, JKDS Jayanetti, AP Samantillake and IM Dharmadasa. Proc. of the workshop on Renewable Energy Sources, Univ. of Peradeniya, Sri Lanka, 4-5 March (1999) pp 40-45.
40. Thin film solar cells and the effect of contacts on their performance. IM Dharmadasa. **Plenary Lecture** at II-VI Semiconductor meeting held at Sheffield Hallam University, 8-9 April 1999.
41. Electrodeposition and characterisation of CuInSe₂ for applications in thin film solar cells. IM Dharmadasa, Oral presentation at II-VI Semiconductor meeting held at Sheffield Hallam University, 8-9 April 1999.
42. Growth and characterisation of electrodeposited n-type and p-type ZnSe thin films, and their use in optoelectronic device development. IM Dharmadasa, MH Boyle, AP Samantilleke, J Young, R Bacewicz and A Wolska. Oral presentation at BACG conference held at Cambridge University, 16-17 Sep. 1999.

43. The role of renewable energy sources in developed and emerging economies. **Plenary Lecture;** IM Dharmadasa. WS on Low cost electronic materials, solar cells and renewable energy sources. Colombo, Sri Lanka, 22-23 Feb. (2000).
44. Development of electrochemically grown ZnSe layers and p-n junction device structures. AP Samantilleke, IM Dharmadasa, WS on Low cost electronic materials, solar cells and renewable energy sources. Colombo, Sri Lanka, 22-23 Feb. (2000).
45. Applications of Renewable Energy Sources. **Plenary Lecture.** IM Dharmadasa, Semiconductor conference, Fes-Morocco, June 2000.
46. Applications of Renewable Energy Sources in Developing Countries. **Plenary Lecture;** IM Dharmadasa. Renewable energy conference, Dhaka-Bangladesh. (1-3) November 2000.
47. Applications of solar energy in society. An **invited oral presentation** to Company Directors. SMi-Conference, London, 20 January 2003.
48. Barriers for renewable energy market penetration. An **invited oral presentation** given in a meeting organised by UK-FCO to renewable energy financiers. London, 26 February 2003.
49. New ways of development of Glass/Conducting Glass/CdS/CdTe/metal thin film solar cells based on a new model. IM Dharmadasa, AP Samantilleke, J Young and NB Chaure. PVSAT Conference, Loughborough University, 3-4 April 2003.
50. **Invited Lecture** delivered at Michael Grätzel's Group to establish a new collaboration. March 2005.
51. Three lectures were delivered on (a) Use of clean energy technologies for social development & reduction of poverty, (b) Lighting in Buildings; Past, Present & Future and (c) New developments in thin film PV solar cells in Photo-Science 2005/Cuba, as the **invited guest lecturer**/March 2005.
52. **One Invited Talk** and two other oral presentations were delivered in IMRC-15 conference held in Cancun/Mexico, in August 2005.
53. **Plenary Lecture** at the International conference on Electronic Materials, held at Shivaji University, Kohalpur, India, October 2007.
54. **Plenary Lecture** at the international conference held at Portsmouth University, November 2007.

POSTER PRESENTATIONS:

1. 18th International Conference on The Physics of Semiconductors. 1986, Stockholm, Sweden.
2. Solid State Physics Conference - 1987 - Univ. of Bristol - UK.
3. Solid State Physics Conference -1988, Univ. of Nottingham-UK.

4. 19th International Conference on The Physics of Semiconductors. (1988) Warsaw, Poland.
5. Condensed Matter and Materials Physics Conference - 1992, Univ. of Sheffield UK.
6. Structural and Electrical Stability of Metal Contacts to MBE grown CdTe layers. CJ Blomfield, IM Dharmadasa, P Devine, GE Gregory, GW Mathews, D Sands, CG Scott and M Yousaf. Condensed Matter and Materials Physics (CMMP-93), December 1993, Leeds, UK.
7. SIMS imaging as a tool for the study of metal/semiconductor surfaces and interfaces. GE Gregory, CJ Blomfield and IM Dharmadasa. Condensed Matter and Materials Physics (CMMP-93), December 1993, Leeds, UK.
8. Surface preparation, Fabrication and Characterisation of Electrical Contacts to n-ZnSe and p-ZnSe materials. IM Dharmadasa, CJ Blomfield, PM Holland and J Young. Condensed Matter and Materials Physics (CMMP-93), December 1993, Leeds, UK.
9. XPS, AES and SIMS characterisation of etched II-VI compounds and the influence of etching on subsequent metal contacts. CJ Blomfield, GE Gregory and IM Dharmadasa. Condensed Matter and Materials Physics (CMMP-93), December 1993, Leeds, UK.
10. Effects of multi Fermi-Level pinning and aggregate surface area on effective Schottky barrier heights at metal/n-CdTe interfaces. RS Wardlaw and IM Dharmadasa. Condensed Matter and Materials Physics (CMMP-93), December 1993, Leeds, UK.
11. Chemically etched CdS, CdTe and ZnSe surface characterised by XPS, SAM and SIMS. CJ Blomfield, GE Gregory and IM Dharmadasa. 1st Int. Conf. on Materials for Microelectronics. Oct. 1994, Barcelona.
12. SIMS imaging as a tool for the study of metal/semiconductor surfaces and interfaces. GE Gregory, CJ Blomfield and IM Dharmadasa. 1st Int. Conf. on Materials for Microelectronics. Oct. 1994, Barcelona.
13. GDOES for study of semiconductors and semiconductor devices. IM Dharmadasa, M Ives, JS Brooks, SJ Brown, GH France, C Breen, G Hill and CC Button. CMMP-94, Dec. 1994, Univ. of Warwick.
14. Discrete Schottky barriers observed for the metal/n-ZnSe(100) system. CJ Blomfield, IM Dharmadasa, KA Prior and BC Cavenett. Seventh Int. Conf. on II-VI Compounds and Devices. Heriot-Watt Univ. August 1995.
15. Study of impurity profiles of photon annealed shallow p-n junctions in semiconductors; Si, GaAs and InP. ST Shishianu, TS Shishianu, IM Dharmadasa, AK Ray and M Ives. CMMP-95, Univ. of Liverpool, December 1995.
16. Growth and characterisation of n- and p-type ZnSe layers. AP Samatilleke, MH Boyle, J Young and IM Dharmadasa. Harwell, Oxford. October 1997.
17. Electrodeposited p-type and n-type ZnSe layers for light emitting devices and multi-layer tandem solar cells. IM Dharmadasa, AP Samantilleke, J Young, MH Boyle, R Bacewicz, A Wolska. CMMP98, 21-23 December 1998, UMIST, Manchester.

18. Electrodeposition of CuInSe_2 for development of thin film photo-voltaic devices. T Delsol, IM Dharmadasa, AP Samantilleke and J Young. CMMP99, December 1999, Univ. of Leicester.
19. Electronic Materials & Devices Research at Sheffield Hallam University. One day conference organised by EPSRC, Manchester, 20 November 2002.
20. New ways of development of Glass/Conducting Glass/CdS/CdTe/metal thin film solar cells based on a new model – Paper 2. IM Dharmadasa, AP Samantilleke, J Young and NB Chaure, Proc. of World PV conference, 11-18 May 2003, Osaka-Japan.
21. Electrodeposition of copper indium gallium sulphur selenide thin films using a two electrode system for applications in solar cells, IM Dharmadasa, NB Chaure, O Islam, J Wellings, T Maddock and I Gee, 21st EU photovoltaic conference, Dresden Germany, June-2006.
22. The reproducibility, Uniformity and Scalability of Multi-layer Graded Bandgap solar cell structures based on GaAs/AlGaAs System, IM Dharmadasa, GJ Tolan, JS Roberts, G Hill, S Ito, P Liska and M Grätzel, 21st EU photovoltaic conference, Dresden Germany, June-2006.
23. Development of p, i and n-type CuInGaSe_2 layers for applications in thin film solar cells., GJ Tolan, NB Chaure, SN Heavens and IM Dharmadasa, 22nd EU photovoltaic conference, Milan-Italy, Sep. 2007.
24. Characterisation of electrodeposited and sputtered ZnO, JS Wellings, NB Chaure, SN Heavens, P Warren, IM Dharmadasa, Proc. of 22nd EU photovoltaic conference, Milan-Italy, Sep. 2007.