**Publications**

**Journal Publications**

1) All sprayed ITO free CuInS$_2$/In$_2$S$_3$ solar cell.

   

2) Spray pyrolysed microporous TiO$_2$ thin films by optimization of substrate temperature for all sprayed solar cells.

   

3) Thin film solar cells with extremely thin absorber layer having multiple absorption bands: A novel attempt.

   **M. V. Santhosh**, C. Sudha Kartha, K. Rajeev Kumar, K. P. Vijayakumar.
   
   *Solar Energy (Under revision)*

4) Improvement of device parameters of CuInS$_2$/In$_2$S$_3$ junction deposited using automated spray machine.

   **M. V. Santhosh**, C. Sudha Kartha, K. P. Vijayakumar.
   

5) Ageing studies on CuInS$_2$/In$_2$S$_3$ junction (2.5 × 2 cm$^2$) deposited using automated spray machine.

   **M. V. Santhosh**, C. Sudha Kartha, K. P. Vijayakumar.
   

6) Improvement in properties of window layer of sprayed CuInS$_2$/In$_2$S$_3$ solar cell by optimization of tin doping.

   **M. V Santhosh**, M. S. Sreejith, C. Sudha Kartha, K. P. Vijayakumar,
   
   *AIP CONF PROC*, 1576 (2014), 76-78.
Conference Papers


2) An Attempt to control the Cu diffusion in ITO/CuInS₂/In₂S₃/Ag solar cells: M. V. Santhosh, C.Sudha Kartha, K. P. Vijayakumar, T Abe, Y Kashiwaba, ICSET 2014, International conference conducted by PSG college Coimbatore, on Dec 12-14.


4) The role of thickness of In₂S₃ buffer layer in CuInS₂/In₂S₃ junction deposited using automated spray machine: M. V. Santhosh, C.Sudha Kartha and K. P. Vijayakumar, Horizons in Thin Film Technology (HTFT-2011), TOC H Institute Of Science and Technology, Arakkunnam, Kerala, Jan 20-21.

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