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Research areas : CdS/CdTe thin-film solar cells



Title of the research : Optimizing the performance of CdS/CdTe Thin film Solar Cell with selected Copper Compounds

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Current position : Research Assistant, University of Jaffna, Sri Lanka

Description of current and past research:

Research focus is on fabrication and characterization of CdS/CdTe thin-film solar cells with selected copper compounds such as CuI, CuS, CuSCN and Cu₂ZnSnS₄ to improve its photovoltaic performance and device stability.

Conference abstracts:

- Thermally evaporated Copper Iodide for CdS/CdTe thin film solar cells, **T.Thivakarasarma**, A. A. I. Lakmal, B.S.Dassanayake, Dhayalan Velauthappillai, and P.Ravirajan, International Conference on Applied and Pure Sciences (ICAPS-2021), Kelaniya, Sri Lanka, 29 October 2021
- Influence of Annealing time for spray coated CdCl₂ on CdS/CdTe thin-film solar cells, T.Mohanaramanan, **T.Thivakarasarma**, R.G.Kumarasinghe, B.S.Dassanayake, V.Dhayalan, P.Ravirajan, Proceedings of Technological Advances in Science, Medicine and Engineering Conference (TASME-2021), Virtual, 3-4 July 2021
- Effect of thermal annealing of CBD-CdS on the electrical properties of CBD-CdS/ED-CdTe solar cell, G. K. U. P. Gajanayake, D. S. M. De Silva, H. Y. R. Atapattu and **T. Thivakarasarma**, Proceedings International Conference on Applied and Pure Sciences (ICAPS-2020), Kelaniya, Sri Lanka, 26 November 2020