SCDT – FlexE Centre Webinar Series

The webinars aim to bring together researchers in Flexible Electronics and allied areas from across India (and other countries) on a single platform to promote professional interaction.

Webinar by

Dr. Sambandam Anandan
Department of Chemistry
National Institute of Technology,
Tiruchirappalli

on

"Current Scenario of Dye-sensitized solar cells - Modifications and Large Scale Production"

Date: 14th November, 2023
Time: 7:30 PM to 8:30 PM

Visit www.iitk.ac.in/scdt/webinars.html to access the zoom link to join the webinar.

The event will be chaired by
Dr. K. D. M. Rao
Indian Association for the Cultivation of Science, Calcutta

Abstract of the Webinar

Dye-sensitized solar cells (DSSCs) are gaining much attention mainly because of the ease of fabrication and the materials employed are low-cost, environmentally friendly. Modification of key components of DSSCs and large-scale production is on progress nowadays. Replacing Pt electrode in conventional DSSCs by 2D transition metal dichalcogenides (TMDCs) are of MX_2 type semiconducting materials where M denotes Mo, W, or Zr and X denotes S, Se, or Te have been discussed in this lecture. Further, migration from DSSCs towards perovskite solar cells also been highlighted.

Information about the speaker

Dr. S.Anandan is a Professor in the Department of Chemistry at the National Institute of Technology, Tiruchirappalli. He heads the Nanomaterials & Solar Energy Conversion Lab where he and his team are involved in developing large scale DSSCs that can potentially be deployed on flexible substrates. Dr. Anandan has published 390 research articles, 25 book chapters, and 2 patents. He has guided 27 PhD and 53 masters students. For the past 26 years, he has been actively engaged in research and teaching in the area of Solar Energy and energy storage applications.

Samtel Centre for Display Technologies (SCDT) and the National Centre for Flexible Electronics (FlexE Centre) of IIT Kanpur are dedicated to flexible electronics research and commercial deployment respectively

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