

APCTP SEMINAR

Recent Trends and Perspectives in Energy technology

Date/Time 17:00-19:00, May 7 (Fri.), 2021

Venue Online (ZOOM)

Speaker Prof. Adinaveen Thambidurai (Univ. of Madras, India)

Abstract Increasing demand for finding eco-friendly and everlasting energy sources is now totally depending on Supercapacitors, Batteries and fuel cell technology. Hydrogen, future fuel, is driven by electrocatalytic water splitting, where water decomposition takes place at the electrode-solution interface. Electrochemical water splitting for sustainable hydrogen production is currently under intensive investigation, due to the increase of the concern on energy crisis and environmental pollution. Electrochemical water splitting is a simple, efficient and cheap method for the generation of hydrogen. Hydrogen produced from water has attracted increasing attention since the discovery of electrochemical water splitting to generate clean hydrogen energy. Supercapacitors are also considered to be promising candidates for power devices in future generations. It represents an advancement in the field of energy storage, as it overcomes many of the shortcomings of batteries. These devices are expected to find many future applications in hybrid electric vehicles and other power devices and systems. For supercapacitors to realize their promise, it is important that their energy and power densities be maximized. An important way to address this is to develop advanced electrode materials and methods to fabricate these materials. The recent years have seen enormous interest in the research of numerous materials and methods for their synthesis for applications in supercapacitor electrode technology.

Webinar (ZOOM)

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