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ACCMS-Global Research Center, SRMIST, Chennai India

Webinar #5

Prof. Bing Joe Hwang

National Taiwan University of Science and Technology, Taiwan

Title: Synergy of Computational and Experimental Approaches in Electrochemical Energy Conversion and Storage

25th January 2022, 10.00 – 11.30 am IST

Registration link: https://tinyurl.com/yc89paax

About speaker

Professor Bing-Joe Hwang received his PhD degree in chemical engineering from the National Cheng Kung University in 1987. He is currently the Chair Professor in the Department of Chemical Engineering at National Taiwan University of Science and Technology (Taiwan Tech) showing in research activities with 450 peer-reviewed publications, 54 patents, 28251 times citation, and a H-index of 80. He is also the Director of Sustainable Energy Development Center (Taiwan Tech), Adjunct Researcher of National Synchrotron Radiation Research, and the Associate Editor of the journal ACS Sustainable Chemistry & Engineering. Professor Hwang has received many recognitions, including Humboldt research award in 2020, Life National Chair Professorship in Engineering and Applied Science granted by the Ministry of Education, Distinguished Professor of Engineering in 2020, fellow of The Royal Society of Chemistry in 2018, Fellow of the Taiwan Institute of Chemical Engineers (TwIChE) in 2018, Academician of Asian Pacific Academy of Materials (APAM) in 2017, Fellow of International Society of Electrochemistry (FISE) in 2014, Outstanding Research Fellow of National Science Council in 2011, Academician of the Academy of Sciences of Lisbon in 2011, three times awarded Outstanding research award from National Science Council of Taiwan, and many more. In addition, Professor Hwang served in important positions of multiply research and academic societies including President of The Electrochemical Society of Taiwan, Coordinator of the Program of Chemical Engineering in MOST, President of the Chinese Association of Chemical Sensors and Technology in Taiwan, and President of The Society of Hydrogen and Fuel Cells of Taiwan.

Abstract

Electrochemical energy conversion and storage technologies are considered two of the most important technologies in today's green and sustainable energy science for the global goal of net-zero carbon emission by 2050. Although the development electrochemical energy conversion and storage devices has received great attention, challenges in understanding the fundamental sciences in the devices need to be resolved by the collaboration of computational and experimental scientists. In this presentation, some challenging issues in electrochemical energy and conversion systems will be discussed. Meanwhile, some examples will be given to show how to combine an experimental and computational approach to discover a topic synergistically.

Zoom meeting details will be shared with the registered participants

Conveners:
Dr. V.J.Surya and Dr.S. Yuvaraj
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