

WORLD TECHNOLOGY UNIVERSITIES NETWORK

SDG7 (AFFORDABLE
AND CLEAN ENERGY)

Title: Nanostructured Functional Materials for Sustainable Energy Applications

In recent decade, the increasing energy demands and anthropogenic environment pollution has been created an enormous fright to us due to the growing global warming and related climate threats (natural disasters). Hence, to solve the energy and environment issue due to excessive carbon emission, it necessary to explore the sustainable green energy applications. In this scenario, the development of advanced materials for next generation energy applications is of utmost importance, with great potential coming from the development of nanostructured functional materials. In this workshop, we will focus on SDG7 (affordable and clean energy) to develop nanostructure functional materials for sustainable energy applications to as a remedy for global warming. This will contribute to the potential contribution towards sustainable green energy applications to protect our earth and secure our future on this planet.

Day: 11 March 2022

Time: 9:00 - 15:15 IST time

Place: Online via Zoom

Confirmed Speakers include:

Keynote Speakers	
1	Dr. Li-Chyong Chen , National Taiwan University (NTU) Taiwan Title: Recent Trends and Progress in Emerging Solar Energy Technologies
2	Dr. R. Gopalan , International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI-Chennai), India Title: Advanced Functional Materials for Energy Generation, Challenges and Future Perspectives
Invited Speakers	
3	Dr. Vivek Polshettiwar , Department of Chemical sciences, Tata Institute of Fundamental Research (TIFR), India Title: Storing Solar Energy into Carbon Dioxide
4	Dr. Chen-Hao Wang , Department of Materials Science and Engg., National Taiwan University Science and Technology (NTUST) Taiwan Title: Metal-Ion/Flow batteries
5	Dr. Subrata Das , CSIR- National Institute For Interdisciplinary Science And Technology (CSIR-NIIST) India Title: Nanophosphors for solid-state lighting and display applications
6	Dr. Vinu R , Chemical Engg. Department, IIT-Madras, India Title: Catalytic hydrogenolysis of lignin to derive valuable phenols for a sustainable bio economy
7	Dr. Cheng-Ying Chen , Ming Chi University of Technology, Department of Materials Engineering & Center for Plasma and Thin Film Technologies (CPTFT), Taiwan Title: Earth-abundant Metal Chalcogenide Materials for Photovoltaics: $Cu_2ZnSn(S,Se)_4$ and $Cu_2BaSn(S,Se)_4$.
8	Dr. Evangelos Gkanas , Coventry University, UK Title: Advanced Materials for Hydrogen Storage

Organizers:

Dr. G. Ilavazhagan

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