



**International Workshop  
of  
Inter-Islamic Network on Nanotechnology (INN)  
Nanotechnology and Renewable Energy**

**10 November 2019**

**Materials and Energy Research Center (MERC), Alborz, I.R. IRAN**



ISLAMIC REPUBLIC OF IRAN  
MINISTRY OF SCIENCE,  
RESEARCH AND TECHNOLOGY

*Scientific Program  
of*

***NTRE 2019***

*Executive Manager:  
Ali Khanlarkhani, PhD*

<b>Sunday, November 10</b>	
Reception and Registration	08:30 – 09:10
Refreshment	09:10 – 09:30
Opening (Main Hall)	09:30 – 10:30
<b>Morning Session: Energy, the Environment and Health Main Hall (Bayat)</b>	
<b>Session Chairs:</b> Mahmoud Kazemzad; Mojgan Heydari; Mohammad Pazouki	
<b>Mustafa Soylak</b> <i>Erciyes University, Turkey</i> <b>Fabrication, characterization of new nanohybride materials for solid phase microextraction of trace species from wastewaters and environmental samples</b>	10:30 – 11:00
<b>Sajjala Sreedhar Reddy</b> <i>University of Nizwa, Oman</i> <b>Treatment of industrial wastewater using advanced photochemical oxidation technologies</b>	11:00 – 11:30
<b>Noushin Salman Tabrizi</b> <i>Materials and Energy Research Center, Iran</i> <b>Aerogels for Energy and Environmental Applications</b>	11:30 – 12:00
Lunch Time	12:00 – 14:00
<b>Evening Session: Renewable Energy Resources and Technologies Hall B (Mofatteh)</b>	
<b>Session Chairs:</b> Nima Naderi; Seyed Amir Hossein Zamzamian; Mehrdad Adl	
<b>Hussein A. Kazem</b> <i>Sohar University, Oman</i> <b>Solar Photovoltaic in Oman: Status and Prospects</b>	14:00 – 14:20
<b>Shaaker Hajati</b> <i>Materials and Energy Research Center, Iran</i> <b>Next generation nanomaterials as solar-driven photocatalysts: Design and characterization</b>	14:20 – 14:40
<b>Amir Maghsoudipour</b> <i>Materials and Energy Research Center, Iran</i> <b>Solid oxide Fuel Cell, challenges and Vision in MERC</b>	14:40 – 15:00
Break	15:00 – 15:20
<b>Muhammad Haris Akram</b> <i>COMSTECH</i> <b>Transition to renewable energy-A perspective of OIC member states</b>	15:20 – 16:30

<b>Evening Session: Nanotechnology and Medicine Hall C (Azodi)</b>	
<b>Session Chairs:</b> Mazyar Sahba Yaghmaei; Reza Riahifar; Babak Raissi	
<b>Javad Malakootikhah</b> <i>Department of Life Science Engineering, Faculty of New Science &amp; Technologies, University of Tehran, Tehran, Iran</i> <b>Green Nanotechnology: Convergence of Nature and Technology</b>	14:00 – 14:30
<b>Nizar Jawad Hadi</b> <i>University of Babylon, Iraq</i> <b>Nanotechnology-Nano fluids</b>	14:30 – 15:00
Break	15:00 – 15:20
<b>Wafa T. Al-Jamal</b> <i>Queen's University Belfast, UK</i> <b>Liposome-Templated Indocyanine Green J- Aggregates for In Vivo Near Infrared Imaging and Stable Photothermal Heating</b>	15:20 – 15:50
<b>Mehrdad Khanlarkhani</b> <i>Head of Patent Prosecution Department, Iran Patent Center</i> <b>Patenting Nanotechnology and government funding</b>	15:50 – 16:30
<b>Evening Session: Nanotechnology in Medicine Class A</b>	
<b>Mohammad Shakir</b> <i>Aligarh Muslim University, India</i> <b>Application of nanocomposites for bone tissue engineering</b>	15:20 – 18:00
Closing (Main Hall)	18:00 – 19:00