

## Supramolecular Macrocylic and Carbon Based Nano-Materials Hybrid System for Energy Application

Abstracts:

Carbon-based nano-materials, supramolecular macrocyclic systems along with their hybrids or heterojunctions for resource-conscious energy/power devices, and energy-efficient electronic and optoelectronic applications will be discussed, particularly, for the following two systems: (1) Supramolecular macrocyclic systems, especially taking the bio-inspired approaches, as non-precious catalysts for fuel cells; and (2) Carbon nano structure, such as: CNTs, CNFs and graphene related material for energy device. Also, the growth of transition metal dichalcogenides. (TMDs) system will be introduced here.

