

TIFR Centre for Interdisciplinary Sciences

21, Brundavan Colony, Narsingi, Hyderabad 500 075

Seminar

Nanoscale Hybrids with Engineered Interfaces: Synthesis Strategy, Microscopic Investigation & their Potential Applications

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In order to obtain a wider spectrum of properties or for multifunctionality, combining different nanostructures to obtain a increasing functional hybrid is demand an ever nanoscience/technology. The challenge lies in obtaining a good control over the structure and chemistry surface/interfaces in the hybrid which plays a significant role in determining its properties and hence the performance. Here, I will present a strategy for designing various noble metal nanohybrids based on ZnO, SiO2 and carbon support, their improved performance in catalysis and structural nanoscopic analysis in 2D and 3D. Also, a few interesting aspects of the Au nanohybrid as emerging SiO2 candidate an neuroengineering will be discussed.

Thursday, May 12th 2016

4:00 PM (Tea/Coffee at 3:45 PM)

Seminar Hall, TCIS