

# Tentative Outline

## Special Thematic Issue for Current Nanoscience Functionalized Hybrid Nanomaterials for Biomedical and Analytical Applications

*Guest Editors: Dr. Subhash Banerjee*

### Aims & Scope:

Over past decades, the nanoscience and nanotechnology has attracted much attention due to their unique and interesting physiochemical, optical and electronic properties. Recently, synthesis of target oriented organic-inorganic hybrid nano-materials has attracted a great deal of attention because of their unique and interesting fascinating properties and widespread applications. Further, integration of functionalized organic molecules with nanomaterials provide an excellent platform to fabricate functional hybrid materials for various catalytic, medical, biotechnological, electrochemical, agrochemical applications. The present theme of issue focuses on the synthesis of fascinating functionalized hybrid materials for their multifaceted applications. It is speculated that this thematic issue will attract interest to the reader of material sciences, life sciences, chemical sciences as well as pharmaceutical sciences.

### Keywords:

**Hybrid Nanomaterials, Organic Nanomedicine, Nano-catalysis, Multicomponent Synthesis, Oxidative Coupling, Nano-Sensors, Plant biotechnology, Polymer nanocomposites, Carbon dots, Drug delivery**

### Subtopics:

The subtopics to be covered within this issue are listed below:

- Hybrid nanomaterials
- Carbon dots
- Nanomedicine
- Nanotechnology in crop protection
- Nanotechnology in plant biotechnology
- Polymeric nanocomposites
- Bioimaging and sensing
- Drug delivery
- **Title-1: Scope of Organic Chemistry in Nanomedicine**
- **Title-2: Review on Novel Nanomaterials in Crop Protection**
- **Title-3: Nanotechnology in Plant Biotechnology**
- **Title-4: Paper Based Chemical Nano-Sensors for Biological and Analytical Applications**
- **Title-5: 5 Polymer Supported Metal Nanoparticles: Key Synthetic Features and Electroanalytical Applications**
- **Title-6: A Review on Functionalized Carbon Dots for Nano-Drug Delivery Applications**

### Schedule:

- ✧ Manuscript submission deadline: **February 30, 2021**
- ✧ Peer Review Due: **March 30, 2021**
- ✧ Revision Due: **May 20, 2021**
- ✧ Final manuscripts due: **June 15, 2021**

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