

Tentative Outline
Special Issue for Current Organic Chemistry
Guest Editor(s): Sapna Jain, and Vinoy Thomas

TITLE: Expanding Frontiers of Nanotechnology

Aims & Scope:

The Thematic issue will illustrate how nanotechnology is likely to revolutionize and improve quality of life, development of economies and provide opportunities for advancement of many technology and industrial sectors: energy, environment, and medicine and food safety among others.

Engineering at nanoscale offers the promise of radical technological development which will be reflected in the papers selected for this special issue. Nanotechnology contributing towards synthesis of nano-catalysts for sustainable development of 'green energy' to revolution in a wide array of medical and biotechnology tools and procedures, and cancer therapy to water treatment will be included in this issue.

Nanotechnology is improving efficiency of fuel production by the use of nanocatalysts for the conversion of low grade raw petroleum. Nanotechnology offers eco-friendly materials for cheap, portable clean water. Rapid and sensitive detection of cancer-related targets can be achieved by using nanotechnology as the detection of changes at molecular level, even in a small percentage of cells can be detected. Nanotechnology also plays a vital role in synthesis of efficient cancer therapeutic drugs as well as anti-bacterial agents. Articles might be addressing diverse issues but share a common central theme; structure maneuvering at nanoscale results in nanomaterials with significant deviation in properties from bulk material which can be exploited for various applications.

Subtopics:

- Application of nanocatalyst materials for the sustainable development of green energy
- Gold nanoparticles as promising agents for cancer therapy
- Nanoparticles and nanocatalysis in biofuels production and refining
- Metallic Nanoparticles Synthesis by Sustainable Organic routes and their application as Plasmonic sensors and enhance catalyzers
- Application potential of carbon nanomaterials in water and wastewater treatment: a review
- A Review on the Current Progress on Nanoparticles, Materials with their Potential Applications
- Epigenetic nanosensors and cancer management

Approximate Schedule:

- Manuscript Submission Deadline: 06/01/2016
- Peer Review Due: 07/01/2016
- Revision Due: 07/15/2016
- Notification of Acceptance by the Guest Editor: 08/15/2016
- Final Manuscript Due: 08/30/2016