

Tentative Outline
Special Issue for Current Organic Chemistry
Guest Editor(s): Yousheng Tao

**TITLE: Recent Advances in Adsorption Nanoscience and
Nanotechnology of Nanocarbons**

Aims & Scope:

Adsorption nanoscience and nanotechnology is the emerging fields of adsorption science and technology with the development of advanced nanomaterials such as carbon nanotubes, graphene and nanoporous carbons. This thematic issue will cover a range of interdisciplinary and current research topics including fundamental of adsorption nanoscience and nanotechnology, synthesis and characterization of nanocarbons, energy storage-related adsorption nanoscience and nanotechnology of nanocarbons, and nanocarbon adsorption for environmental protection. The special issue is aimed to provide a highly visible forum for publication of high quality review articles on state-of-the-art research and development in nanocarbons-based adsorption science and technology.

Key words: Adsorption, Carbon Nanotube, Graphene, Nanocarbon, Nanopore, Nanoscience, Nanotechnology

Subtopics:

- Synthesis, characterization and applications of nitrogen-doped carbon nanotubes
- Graphene nanocomposite for energy storage
- Effects of wettability on adsorption and pressure of fluids in carbon nanopores
- Adsorption and storage of ions in nanocarbon
- Water adsorption of nanoporous carbons
- Synthesis and characterization of carbon aerogel
- Carbon-based materials for electrochemical energy storage
- Gas adsorption of microporous carbons

Approximate Schedule:

- Manuscript submission deadline: December 2014
- Peer Review Due: January 2015
- Revision Due: February 2015
- Notification of acceptance by the Guest Editor: February 2015
- Final manuscript Due: February 2015