

**Tentative Outline**  
**Special Issue for Current Organic Chemistry**  
*Guest Editor(s): Surya Prakash Singh*

**TITLE: Recent Developments in Solar Energy**

**Aims & Scope:**

Globally, the growth rate of the human population is increasing therefore a huge demand of energy to fulfill their requirements like vehicles, TVs, computers, ACs, etc. this causes global warming. Therefore, CO<sub>2</sub>-free energy is an emergent issue. In this context, solar energy is an alternate of fossil fuels. Dye-sensitized solar cells (DSSCs), organic thin-film solar cells, quantum dot solar cells, schottky solar cells, inorganic-organic heterojunction solar cells and many others have been developed as an efficient, low-cost technology during the last few years. This special issue will contain high-quality research work addressing the latest innovations in nanomaterials research focused on solar cells. The design of novel generation of solar cells and smart nanomaterials will be covered. The special issue is aiming for a broad audience of readers in the field of material sciences, chemistry, and physics.

**Key words:** Solar cells, Dye-sensitized solar cells, Organic thin-film solar cells, Quantum dot solar cells, Nanomaterials

**Subtopics:**

- Dye sensitized solar cells: organic dye and metal complexes, mixed dye-sensitized solar cells
- Electrolytes
- Quantum dots solar cells
- Flexible solar cells: polymers
- Light-harvesting conjugated polymers
- Light harvesting and photocatalysis
- Light harvesting nanomaterials and solar energy conversion
- Bulk Heterojunction Solar Cells (PCBM/P3HT)
- Fullerene acceptors

**Approximate Schedule:**

- Manuscript Submission Deadline: October 2014
- Peer Review Due: November 2014
- Revision Due: December 2014
- Notification of Acceptance by the Guest Editor: January 2015
- Final Manuscript Due: January 2015