

Special Issue on Materials Chemistry for Sustainability and Energy

Call for Papers

Environmental pollution and energy storage are two global menaces and the magnitude of them is ever-increasing due to rapid pace of urbanization and industrialization. Thus, providing clean environment and renewable energy for people is a great challenge. The nano/microstructured materials with intriguing physical and chemical properties have given immense scope and opportunities to address the key issues of environmental sustainability and clean energy development. In the past two decades, great progress has been made on design, synthesis, and utilization of artificial materials for sustainability and energy. These nano/microstructured materials in various fashions are stimulating various practical applications in environmental and energy sector. The rapid development in materials science and nanotechnology has led to significant advances in understanding the controlled synthesis, chemical properties, and structure-activity relationship of materials.

The recent rapid development in materials chemistry for sustainability and energy inspired us to edit this special issue of Journal of Chemistry. We cordially invite investigators to contribute original articles as well as review articles that will improve our understanding of the key scientific and technological problems in environmental and energetic applications of nano/microstructured materials. We are particularly interested in articles describing the materials for energy storage and conversion, materials for sustainability, and materials for living. Potential topics include, but are not limited to:

- Design and synthesis materials with novel morphology, porous structure, and exposed active sites
- Materials for fuel cells, photoelectrochemical cells, photovoltaics, hydrogen evolution and storage, batteries, and supercapacitors
- Materials for green chemistry and catalysis
- Materials for CO₂ capture, storage, and conversion
- Materials for sensing, self-healing, self-cleaning, and waste water/gas/solid treatment
- Theoretical calculation, simulation, and modeling of related materials

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First Round of Reviews	Friday, 12 September 2014
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