

Special Issue

Development of Sunlight Responsive Nanostructured-Catalysts for Environmental Applications

Message from the Guest Editors

Various semiconducting nanomaterials, such as metal oxides, metal sulfides, noble metal nanoparticles, etc., have been utilized to fabricate the solar light harvesting photocatalysts capable of environmental remediation. However, the development of suitable bandgap nanostructures with multi-dimensional composites with sufficient band edge potentials is crucial to bringing about an efficient catalytic process under solar light irradiation. Submissions to this Special Issue on “Development of Sunlight Responsive Nanostructured-Catalysts for Environmental Applications” are welcome in the form of original research papers, mini-reviews, and reviews that reflect state-of-the-art research on this important subject in the following topics: new techniques for the fabrication of various dimensional nanostructures, multi-dimensional nanocomposites, modification and doping of nanostructures, different pathways for the environmental remediation, and energy-related applications.

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