Special Issue

New Frontiers in Applications of Photocatalysis Processes

Message from the Guest Editor

Photocatalysis has been widely studied in the past few decades with respect to the degradation of pollutants, water splitting, CO2 reduction, N2 fixation and the recently emerged organic conversion/reforming. Although various types of photocatalysts/cocatalysts have been designed, achieving enhanced performance is usually based on the complicated or high-cost preparation of the catalysts, as well as corrosion/deactivation of the photocatalysts after long-time operation, which largely limits the practical application of photocatalysis to achieve efficient solar energy conversion and utilization. Thus, for this Special Issue, the purpose is to disseminate information and research results to inspire more study on practical and applicable photocatalysis systems. Particular attention will be given to those works that introduce stable and efficient photocatalysts, non-precious cocatalysts and new photocatalytic reactions that could take the place of thermo-catalytic processes with high efficiency and selectivity under mild reaction conditions.

Keywords
- photocatalysis
- cocatalysts

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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