



## New Frontiers in Applications of Photocatalysis Processes

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

Photocatalysis has been widely studied in the past few decades with respect to the degradation of pollutants, water splitting, CO<sub>2</sub> reduction, N<sub>2</sub> 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.

Prof. Dr. Guixia Zhao

*Guest Editor*

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- cocatalysts





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