Special Issue

Recent Advances in Catalysis for Environmental Applications and Chemical Synthesis

Message from the Guest Editor

The general studies of catalysts used in environmental pollution abatement have especially focused on those applied in industrial processes. This includes the catalytic elimination of environmental pollutants such as volatile organic compounds, sulfur compounds, carbon monoxide, nitrogen oxides, and soot emitted by the chemical or automotive industry. Submissions to this Special Issue should be based on the newest achievements in the synthesis and characterization of catalysts and their application in environmental pollution abatement, especially as applied to industrial processes. Other topics of interest include the application of photocatalysis in the production of clean energy, hydrogen generation via catalytic fuel processing, and the synthesis of new electrocatalysts for fuel cells. Clean and low-temperature catalytic processes, e.g., new catalytic combustion technologies, in which crude and waste compounds are applied to the preparation of useful chemicals are also of interest, as well as the elimination of toxic compounds in the chemical industry through application of environmentally friendly catalysts.

Guest Editor

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