



Application of Photocatalysts in Air Pollution

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Message from the Guest Editors

Dear Colleagues,

Photocatalysis technology has emerged as a promising solution for addressing various air pollutants, ranging from CO₂ conversion and NO_x oxidation to VOCs degradation and indoor air pollutant removal. By harnessing the power of photocatalysts such as TiO₂, MnO₂, and conjugated polymers, photon energy is absorbed and transformed into valuable chemical energy. Extensive research has been conducted to enhance the photon utility of photocatalysis through techniques such as modifying physical and chemical properties, heteroatom doping, creating heterojunctions, and optimizing reactor designs.

The Special Issue aims to cover the in-depth exploration of recent progress and advancements in the field of photocatalysis. The scope of the Special Issue encompasses, but is not limited to, the preparation and characterization of innovative materials, the application of photocatalysis in tackling air pollutants, and the theoretical study of reaction mechanisms and kinetics.

If you would like to submit papers to this Special Issue or have any questions, please contact the editor, Mr. Ives Liu (ives.liu@mdpi.com).

