Special Issue

Recent Developments in Photocatalytic Water Treatment Technology

Message from the Guest Editor

Effective wastewater treatment is crucial to addressing the proliferating environmental challenges and ensuring the availability of clean water. In this context, there are now numerous alternatives to water treatment, but one particularly interesting alternative is photocatalysis; this utilizes materials that are able to accelerate chemical reactions by absorbing light, generally ultraviolet light or visible light. Photocatalysis has emerged as a promising technology with the capacity to degrade the contaminants present in water. This Special Issue, entitled "Recent Developments in Photocatalytic Water Treatment Technology", aims to provide a comprehensive exploration of the most recent advances in photocatalytic water treatment technology, with a particular emphasis on the significance of these developments in addressing the challenges associated with the contemporary environment. Photocatalysis is presented as a promising solution in this context, owing to its ability to degrade an extensive range of contaminants, including recalcitrant organic compounds, heavy metals, and pathogens, via the generation of reactive oxygen species and electrons in the presence of light.

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