Special Issue

Photocatalytic Degradation of Organic Pollutant in Wastewater

Message from the Guest Editor

Photocatalytic technology stands out as a straightforward, energy-efficient, safe, and eco-friendly approach for environmental purification. However, it grapples with challenges including low photon utilization, inadequate photoresponse, limited active sites, rapid electron-hole pair recombination, and a propensity for aggregation. To conquer these issues, researchers have engineered innovative photocatalysts, such as metal–organic frameworks, two-dimensional materials, and composite semiconductors, which enhanced light absorption efficiency and an expanded light response spectrum. Photocatalysts are widely utilized for the degradation of pollutants in water, air, and soil. Simultaneously, researchers are actively exploring the synergistic effects of photocatalytic technology with other technologies, such as electrocatalysis and biocatalysis, to achieve the more efficient degradation of pollutants. Therefore, this Special Issue aims to consolidate and disseminate knowledge in the field. We invite you to contribute your research article, communication, or review related to the photocatalytic degradation of pollutants.

Guest Editor

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Editor-in-Chief

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