

Special Issue

Photocatalytic Removal of Dyes

Message from the Guest Editor

Contaminated water from industrial dyes is a growing environmental concern. Among different wastewater pollutants, organic dyes are recognized as dominant contaminants that can cause serious health hazards even when their concentrations are low. In this regard, the key to a successful photocatalysis process is employing a suitable photocatalytic material that leads to the complete mineralization of dyes to environmental benign CO₂, H₂O, nitrates, etc. In addition, high photocatalytic activity, stability, low cost, and nontoxicity are essential for photocatalysts.

This Special Issue aims to cover the most recent progress and advances in the field of photocatalytic study correlated with materials, processes, and functional applications. This includes, but is not limited to, the synthesis and characterizations of heterostructure photocatalysts, understanding of the photocatalytic mechanism, reliability of dye degradation, and the employment of new technology for the removal of organic dyes.

Guest Editor

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