



TiO₂ for Photocatalytic Applications

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Message from the Guest Editors

Photocatalysis has emerged as an advanced process due to its great potential as a green and eco-friendly process for the treatment of wastewater, air, and antimicrobial disinfection applications. In this context, TiO₂ nanostructures have been shown to be the prominent photocatalyst candidates due to their low cost, non-toxicity, and ease of fabrication. To date, it has been widely studied in academic research and used in a variety of advanced photocatalytic applications, including the removal of organic pollutants and pathogens, water splitting, and CO₂ reduction.

This Special Issue TiO₂ for photocatalytic applications covers the design, preparation, characterization, and photocatalytic performances of TiO₂-based nanostructures (such as nanoparticles, nanofibers, nanorods, nanowires, film and etc.) and their composites. We invite authors to contribute original research articles as well as review articles with special emphasis of TiO₂ nanostructures (or composites) for photocatalytic water splitting, CO₂ reduction and environmental remediation.

