Special Issue

Synthesis, Characteristics and Applications of Nanoparticles for Photocatalysis

Message from the Guest Editors

To tackle water pollution, there is an increasing focus on developing new technologies and materials. One of the most promising treatments is photocatalysis, which can degrade various water pollutants using semiconductor catalytic materials and a light source. Nanomaterial-based catalysts are particularly desirable in photocatalysis because of their morphologies and surface chemistry that can significantly impact the final photocatalytic activity. This Special Issue on "Synthesis, Characteristics and Applications of Nanoparticles for Photocatalysis" seeks high-quality works focusing on more deeply exploring the relationship between the synthesis of nanomaterials, their characteristics, and their functions as catalysts for different photocatalytic processes. Topics include, but are not limited to, the following:

- Synthesis process to develop catalytic nanomaterials, especially nanoparticles;
- Characterization of photocatalytic nanomaterials;
- Utilization of nanomaterials in photocatalysis for environmental remediation;
- Mechanism of degradation of organic compounds with photocatalysts enhanced by nanocomposites.

Guest Editors

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Editor-in-Chief

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