Special Issue

Sustainable Nanotechnologies for Photocatalytic Degradation of Organic Pollutants

Message from the Guest Editor

The treatment of organic pollutants, especially organic dyes being rather harmful to human beings and causing deleterious damage to the environment, has been considered a vital issue but instead the remaining problem. Among various potential solutions, the oxidative degradation of organic dyes via light activation of photocatalysts is the most efficient and eco-friendly method. In this Special Issue, research aiming at designing, synthesizing and developing sustainable photocatalysts is welcomed. The target materials can also focus on the materials design, such as elaborating the characteristics of light harvesting, charge separation and surface reactions. In addition, the topic also covers the synthesis of photocatalysts via nanofabrication strategy, practical employment for wastewater treatment and other new materials systems with sound sustainability.

Guest Editor

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Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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