

Special Issue

Nanomaterials for Photodegradation of Pollutants

Message from the Guest Editor

In recent decades, the indiscriminate use of chemical substances and the inadequate waste management of these substances have generated an unprecedented accumulation of pollutants; at present, different types of pollutants (solids, liquids, and gases) accumulate in the air, soil, and water.

Nanoscale materials present new properties and an endless number of potential applications that allow the removal of pollutants through various processes such as absorption, degradation, and oxidation.

The goal of this Special Issue is to provide a new perspective by collecting potential articles that connect a new research proposal to the photodegradation of pollutants by the use of nanomaterials. Manuscripts may explore the most promising advances in nanotechnology and nanoscience, with a focus on the use of solar UV light in the photodegradation of traditional and new pollutants. Moreover, this Special Issue accepts manuscripts exploring new routes of synthesis and nanomaterials that involve high-efficiency photodegradation and the use of removable energy sources in synthesis and photodegradation processes.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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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