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Innovative Nanomaterials and Nanocomposites for Photocatalytic Removal of Organic Pollutants

Guest Editor:

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Message from the Guest Editor

Heterogeneous photocatalysis can be considered as one of the main challenges in the field of water and wastewater treatment, because a heterogeneous photocatalytic process is able to work at ambient temperature and atmospheric pressure. Currently, ZnO- or TiO_2-based nanomaterials are the most-studied photocatalysts and have attracted a great deal of interest due to their unique physical-chemical properties. Consequently, they have been exploited as promising materials for the removal of a wide variety of organic pollutants present in water and wastewater, as well as gaseous streams. On the other hand, despite the great benefits associated to TiO_2- or ZnO-based nanomaterials, there are still open questions about the synthesis and photocatalytic efficiency of novel nanomaterials and nanocomposites as well as the design of nanostructured semiconducting materials immobilized on macroscopic supports. Research papers related to the synthesis and characterization of novel nanomaterials or nanocomposites (active under UV or visible light, as well as under solar light) and their uses in the removal of pollutants form liquid and gaseous phases are welcome in this Special Issue.

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Editor-in-Chief

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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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