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Photocatalytic Applications in the Frame of Novel and Unconventional Photocatalytic Materials

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Message from the Guest Editors

Dear Colleagues,

Photocatalysis is among research topics that have always directed interests toward photocatalytic water purification and water-splitting applications. In line with these goals, a set of highly efficient nanostructures made a breakthrough in the field, overshadowing non-conventional materials/composites and applications. This approach has resulted in photocatalysis now being considered a unidirectional research area, with the same goals remaining unchanged for decades.

This Special Issue welcomes contributions which are in line with the following aims:

- The synthesis, characterization, and photocatalytic application of novel photocatalytic materials that have appeared or boomed in the photocatalysis research field in the last 5 years.
- All types of photocatalysts which are used in applications beyond the photodegradation of pollutants and water splitting.
- The combined application of photocatalytic materials.
- A combination of catalysis and photocatalysis to achieve the same aim.

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Special Issue



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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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