Special Issue

Nanostructured Functional Materials for Photocatalysis

Message from the Guest Editors

The idea that photocatalysis can provide alternative synthetic pathways, helping us move towards a more sustainable chemistry with a low environmental impact, has finally emerged. The efficient use of sunlight and maximizing efficiency and selectivity require that all steps of a photocatalytic process must be optimised. This Special Issue of "Nanomaterials" aims to present the most recent results in the preparation and characterization of nanostructured materials and their application in photocatalysis. We invite contributions from leading research groups in the field of heterogeneous photocatalysis with the aim of providing cutting-edge research on semiconductor materials to be used as photocatalysts, both under artificial and natural solar irradiation, to provide a clear view on the close relationship between the design of a nanostructured material with certain characteristics and its application in a specific photocatalytic process. You can submit your paper at the following link: https://www.mdpi.com/si/174285
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closed (1 April 2024)

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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