

Special Issue

Advanced Nanomaterials for Photocatalysis and Environmental Remediation

Message from the Guest Editors

Due to its universality, affordability, and sustainability, solar energy has recently acquired an extensive interest in fighting the global energy crisis and environmental pressure. Excited by global energy, photocatalysis can impel chemical reactions, thus being regarded as an ideal green chemical technology. In the field of environmental remediation, photocatalysis is also widely developed and successfully applied for various reactions, such as degradation of organic pollution, reduction of Cr(VI), NO_x removal, and VOC combustion. This Special Issue of *Nanomaterials* is aimed at presenting the current photocatalytic materials for environmental applications, including nanocrystal, nanocarbon, and nanocomposite. Compared with the traditional particles, nanosized catalysts would exhibit unique physical, photoelectronic, and chemical properties. Therefore, nanocatalysts are also expected to have superior photocatalytic performance in various chemical reactions. In the present Special Issue, we have invited contributions from leading groups to publish their latest research results on advanced nanomaterials for photocatalysis in the field of environmental remediation.

Guest Editors

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Deadline for manuscript submissions

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

Editor-in-Chief

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