Special Issue

Recent Advances in Nanomaterials for Removal of New Emerging Pollutants from Water/Wastewater (2nd Edition)

Message from the Guest Editor

This Special Issue is focused on recent developments in the synthesis of novel nanostructured materials (photocatalysts and adsorbents) applicable for the removal of emerging pollutants (pharmaceuticals, additives in personal care products, microplastics, pesticides, herbicides, etc.) from water media. Full papers, communications, and reviews are welcome in the following areas: 1. Synthesis of novel nanostructured photocatalysts active under visible light using different techniques such as green microwave-assisted crystallization, sol-gel, hydrothermal, solvothermal, physical methods, etc. 2. Synthesis of magnetic composites in the form of particles or immobilized on different substrates with photocatalytic activity under visible light. 3. Modification and functionalization of natural materials applicable in photocatalysis in order to develop cost-effective reusable technologies. 4. Application of novel photocatalysts and adsorbents in degradation/removal of emerging pollutants from water media. 5. Studies of the correlation between structural properties and the activity of novel photocatalysts and adsorbents.

Guest Editor

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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.

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