Special Issue

Developments in Photocatalysts and Photocatalytic Activity of Nanocomposite Materials

Message from the Guest Editors

Photocatalytic technology has garnered widespread attention in energy conversion, environmental remediation, and organic synthesis. The development of efficient, low-cost photocatalysts is crucial for its broad application, and nanocomposite materials represent a promising pathway to achieve this goal. This Special Issue aims to compile the latest advances in the design, synthesis, characterization, and performance optimization of nanocomposite photocatalysts, fostering academic exchange and technological breakthroughs in the field. We welcome original research articles, reviews, and perspectives to promote interdisciplinary innovation in nanocomposite photocatalysts. This Special Issue will serve as a platform for showcasing cutting-edge research and advancing sustainable photocatalytic technologies.

Guest Editors

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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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