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Heterogeneous Photocatalysts Based on Nanocomposites

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Message from the Guest Editors

Heterogeneous photocatalysts that are based on nanocomposites have gained significant attention in recent years due to their potential applications in various fields, such as environmental remediation, solar energy conversion, and water purification. The combination of different nanomaterials can create heterojunctions that enhance the photocatalytic properties of the composite and promote the separation of photoinduced charge carriers.

Nanocomposites-based photocatalysts can be synthesized using different methods, and their properties can be modified by adjusting the synthesis parameters, such as the nanoparticle size, shape, surface area, and composition. Overall, heterogeneous photocatalysts based on nanocomposites have numerous benefits, including easy synthesis, tunable characteristics, and excellent photocatalytic performance. They have great potential to be used in various fields for solving environmental and energy-related issues.

This special issue welcomes submissions of original research-based articles and reviews that describe the manufacturing process, analytical description, and applications of photocatalysts based on nanocomposites.

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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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