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Advanced Nanomaterials for a Cleaner Environment and Environmental Health

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Message from the Guest Editors

Multifunctional nanomaterials have high surface–volume ratios, efficient electron transfer and abundant unsaturated surface atoms at the nanoscale. Their excellent structures can significantly improve their advanced oxidation activity, showing efficient performance in the treatment of environmental pollutants and ecological remediation. The synergistic effect and electronic modulation of these nanomaterials can greatly improve their performance in adsorption, photocatalysis, electrocatalysis and PMS activation, which is effectively applied to the treatment of various pollutants. From the perspective of material science research and practical engineering applications, functional nanomaterials offer infinite possibilities for creating a cleaner environment.

The purpose of this Special Issue is to describe the development of nano-functional materials and the latest progress in various environmental applications from the perspective of basic and application and to provide a strategic platform for creating a cleaner environment. Authors are invited to present original research and review articles that will stimulate the continuing efforts in this field.

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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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