Special Issue

Advances in Engineered Nanostructures for Detection, Control and Removal of Environmental Pollutants

Message from the Guest Editors

Increasing environmental pollution worldwide has led to a tremendous boost in the advancement of environmental nanotechnology by exploring advanced engineered nanostructures to improve the removal of various pollutants. In this context, this Special Issue welcomes original articles and reviews describing the latest progress in fabricating novel nanostructured materials with enhanced capabilities to control, detect, and remove pollutants from the environment. Topics of interest include but are not limited to: - Nanostructures with functionalities to control and detect environmental pollutants; - Engineering novel functionalities of nanomaterials for environmental clean-up; - Nanostructures for catalytic/photocatalytic elimination of pollutants from water, air, or soil; - Porous nanoarchitectures for adsorption of chemical pollutants; - Studies on photo/catalytic reactions and sorption mechanisms applied to environmental nanotechnology.

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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.

Editor-in-Chief

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