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Nanostructured Materials for Environmental and Healthy Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (10 January 2024)

Message from the Guest Editor

Dear Colleagues,

Over the last few decades, due to the intensive development of nanotechnology, nanomaterials have been released, intentionally or unintentionally, into the environment. The application of nanotechnology to the environment includes the use of nanomaterials to clean up polluted media, such as soil, water, air, groundwater, and wastewater (nanoremediation).

Nanotechnology also has the potential to bring both disadvantages and benefits in terms of human exposure to new nanomaterials. Nanomaterials influence human safety by environmental pollution, unintentional exposure (e.g., due to pollution or exposure at the workplace), and purposeful exposure via intended applications (nanomedicine).

This Special Issue on *Nanomaterials* aims to highlight advances in the environmental and health applications of nanomaterials. Topics of particular interest include:

- The influence of nanomaterials on environmental pollution and associated organisms;
- Sustainable (nano)solutions for environmental remediation;
- The effects of exposure to nanomaterials on human health;
- New nanomaterials for the diagnosis, prevention, and treatment of disease;

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Editor-in-Chief

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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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