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Ecotoxicity Assessment of Nanomaterials: Latest Advances and Prospects

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Deadline for manuscript
submissions:

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Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Nanomaterials* aims to aggregate papers about the latest advances and prospects in the ecotoxicity assessment of ENMs. This Special Issue Invites the submission of original research papers, case studies or up-to-date review papers on environmental risks posed by nanoscale materials.

Specifically, some interesting topics include:

- Ecotoxicity assessment including a multi-endpoint approach: at individual (e.g., survival, reproduction, behavior), biochemical (e.g., DNA damage, oxidative stress, neurotransmission) and molecular (e.g., gene and protein expressions) levels;
- Long-term exposures with special attention to multigenerational and/or transgenerational effects;
- Advances in the characterization and understanding of the biological interactions of ENMs, and of their toxic effects at predicted environmental concentrations;
- Future needs, challenges and directions in ENMs ecotoxicity assessment.

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Special Issue



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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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