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Safety Assessment of Graphene-Based Materials: Human Health and Environment

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Message from the Guest Editors

Dear Colleagues,

Graphene-Based Materials (GBMs) are a novel class of carbon-based nanomaterials characterized by extraordinary physicochemical properties that are the basis for a wide range of applications. These are used in various fields including nanoelectronics, energy technology, and biomedicine. Increasing effort is being made to produce novel GBMs with modified and expanded properties. However, because of the expected significant increase in the GBM market over the next few years and the concomitant release of GBM-containing nanoparticles into the environment, safety issues related to human health and the environment need to be addressed

The increasing widespread interest and use of GBMs necessitates a comprehensive evaluation of the potential impacts of these materials on human health and the environment. This Special Issue aims to present a compilation of articles that demonstrate the continuous effort being made to assess the safety of GBMs for both humans and the environment with the ultimate goal of implementing the hazard characterization of these materials.

Prof. Marco Pelin Dr. Fabio Candotto Carniel *Guest Editor*s







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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, metalorganic 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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