Special Issue

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

Message from the Guest Editors

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.

s

Guest Editors

Dr. Marco Pelin

Department of Life Science, Università degli Studi di Trieste, Trieste, Italy

Dr. Fabio Candotto Carniel

Department of Life Sciences, University of Trieste, Trieste, Italy

Deadline for manuscript submissions

closed (15 March 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/34180

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

MDPI

About the Journal

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

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)