Special Issue

Investigation and Development of Graphene Oxide-Based Materials

Message from the Guest Editor

Graphene oxide (GO) is a graphene derivative decorated with several oxygenated functional groups (carboxylic, hydroxyl, and epoxy) on its basal planes and edges, resulting in a hybrid carbon nanostructure comprising a mixture of sp2 and sp3 domains. It stands out as one of the most appealing nanomaterials, able to be integrated with other materials to create interesting GO-based nanomaterials with new and interesting functionalities and is being explored for applications spanning environmental science, energy storage, and medical science, to name but a few. As the applications of this class of GO-based nanomaterials expand, they begin to enter people's lives, and biosafety issues also become of major relevance. A great number of scientists have been recently dedicating their research to toxicological studies, though the biosafety of GO-based nanomaterials remains unresolved. This Special Issue of *Nanomaterials* aims to cover the most recent advances in GO-based nanomaterials for different types of applications and, also, to studies dedicated to the biosafety screening of these compounds.

Guest Editor

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Deadline for manuscript submissions

closed (1 February 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 10.3
Indexed in PubMed

mdpi.com/si/37641

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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