

Special Issue

Toxicology of Carbon Nanomaterials

Message from the Guest Editors

Engineered nanomaterials based on carbon show unprecedented promise in multiple areas of scientific and technological development. However, concerns regarding their safety have the potential to negatively affect their innovation potential. Over the last few years, in fact, we have learned a great deal about the cytotoxic, genotoxic and immunotoxic potential of certain carbon nanomaterials. We now recognize that material properties such as stiffness, biopersistence and size are contributing to their toxicity, but we still lack robust models explaining their mechanisms of action and toxicity potential. For this, new approaches combining chemistry, biology and data analytics and modelling urgently need to be established. In this Special Issue, we wish to focus on new insights into carbon nanomaterials' mechanisms of action and their dependency on their intrinsic properties. We warmly welcome contributions in the areas of the *in vivo*, *in vitro*, and *in silico* toxicology of carbon nanomaterials, aiming to formulate models of nano-bio interactions.

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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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