



Toxicology of Carbon Nanomaterials

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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

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