Special Issue

Advances in Environmental Nanotoxicology—from Traditional Standard Toxicity Tests to the Application of New Approach Methodologies

Message from the Guest Editors

Nanotechnology has made significant progress over the past few decades. Nanomaterials (NMs) are currently used across a variety of fields and applications, including healthcare, electronics, energy, environmental protection, and agriculture. However, while the use of NMs has substantial benefits, there are challenges that persist, specifically regarding their safety and regulation. This Special Issue invites the submission of original research papers, reviews, short communications, and perspectives that address the environmental effects of NMs and advanced materials, including, nanoparticles, nanoplastics, nanoformulations, nanopesticides, among other related topics. Papers may also include research concerning to NAMs, phenotypic, and behavioral outcomes (e.g., standard tests); toxicokinetic and toxicodynamic studies; the assessment of molecular or epigenetic mechanisms of toxicity; and in vitro studies and predictive or computational toxicology approaches, supported by materials characterization.

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