Special Issue

Environmental Fate, Transport and Effects of Nanoplastics

Message from the Guest Editors

Nanoplastics can be produced or derived from the degradation of several everyday-use products. They are ubiquitous in all natural environments: air, water, soil, and living organisms, and because of their small size and large surface area, they are easily absorbed by living organisms in addition to their ability to adsorb toxic pollutants, meaning that the toxicity of nanoplastics is a major issue. This Special Issue is dedicated to original research articles and reviews, including the state of the art, their distribution in different matrices, their transport and short- and long-term effects, the biophysical–chemical mechanisms of their potential toxicity, organic and inorganic additives included in nanoparticles, solutions limiting teratogenic effects, genomics and proteomics, remediation solutions and modeling of effects, and transport and fate. We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Philippe Le Coustumer

Dr. Serge Stoll

Prof. Dr. Mohammed Baalousha

Dr. Wei Liu

Deadline for manuscript submissions

closed (5 September 2025)

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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.

Editor-in-Chief

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