

Special Issue

Microplastics and Nanoplastics in Environments

Message from the Guest Editor

The massive use of plastics and their composites for a multitude of applications raises a warning about the impact of microplastics and nanoplastics on the environment. The effects of microplastics and nanoplastics on the environment are still poorly studied. The fragmentation of any particle greatly expands its surface, leading to new behaviors of materials of nanometric dimensions that need to be understood. The modification of surface energy generates several effects on the adsorptive capacity of these materials. All ecosystems and environmental compartments are susceptible to plastic pollution. Knowledge of the distribution of nanoplastics and microplastics in the environment is necessary, while identification of the type of plastic is crucial for spatiotemporal knowledge of the polluting source. Ingestion or inhalation of these materials can compromise living beings, and the transport of microorganisms on the surface of these materials can amplify unwanted actions.

Guest Editor

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

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