

Special Issue

Sustainability and Advances in Microplastic Pollution: Detection, Distribution, and Impact Across Environmental Matrices and Ecosystems

Message from the Guest Editor

Microplastic pollution has become a critical environmental issue, with a widespread presence across terrestrial, freshwater, marine, and atmospheric ecosystems. Despite increasing research efforts, significant knowledge gaps remain regarding detection methodologies, distribution patterns, and ecological and human health impacts. This Special Issue will bring together cutting-edge research on microplastic pollution, focusing on innovative detection techniques, spatial distribution across different environmental compartments, and interactions with biota and chemical pollutants. We welcome original research, review articles, and case studies addressing, but not limited to, the following topics:

- Novel analytical techniques for microplastic characterization and quantification;
- Distribution patterns and transport mechanisms in the air, water, and sediments;
- Sources, pathways, and fate of microplastics in various environments;
- Toxicological effects and ecological risks associated with microplastic exposure;
- Policy recommendations and sustainable mitigation strategies for reducing microplastic contamination.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2026)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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