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Biological and Ecological Risk Assessment and Management

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Message from the Guest Editors

Microplastics, small plastic fragments <5 mm, pervade ecosystems globally, originating from larger plastic items, cosmetics, and industrial processes. Despite their size, they pose significant threats to environmental health and biodiversity. Understanding their biodegradation capabilities, biological impacts, and potential risks to ecosystems and human health is crucial. Microplastics act as vectors for toxic chemicals and pathogens, accumulating in the food chain. Research on biodegradation, biological effects, and analytical techniques is essential for effective mitigation strategies. Interdisciplinary approaches involving biology, ecology, and environmental science are necessary. This Special Issue invites contributions on the fate, degradation, and transformation of microplastics, biological effects on organisms, advanced analytical techniques, risk assessment, and remediation strategies.

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Message from the Editorial Board

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