

Special Issue

Advances, Challenges, and Emerging Approaches in Microplastic Detection, Monitoring, and Prevention

Message from the Guest Editors

This Special Issue will critically examine current challenges and limitations in microplastic detection and monitoring, while highlighting innovative approaches that improve understanding of microplastic occurrence and fate. Contributions on novel analytical tools, emerging monitoring strategies, and applications in non-traditional environmental matrices are particularly encouraged. Beyond methodological advances, this Special Issue bridges science and action by welcoming studies on prevention strategies, policy frameworks, mitigation practices, and intervention measures. By integrating analytical developments with monitoring and governance perspectives, it provides a comprehensive view of microplastic research and identifies pathways toward more reliable assessment and effective management of microplastic contamination. Topics include, but are not limited to, the following:

- Methodological limitations in microplastic analysis;
- Innovative detection techniques;
- Monitoring in unconventional environments;
- Strategies for preventing or mitigating microplastic pollution.

Guest Editors

Prof. Dr. Deborah Xanat Flores-Cervantes

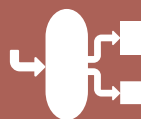
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