

Special Issue

Recent Advances in Biomonitoring and Bioremediation of Emerging Pollutants

Message from the Guest Editors

This Special Issue aims to bring together recent advances in biomonitoring and bioremediation technologies applied to emerging pollutants in diverse environmental matrices (soil, water, air, and sediment). It welcomes contributions that explore novel bioindicators, biosensors, molecular tools, and omics-based approaches for pollutant detection and risk assessment. Equally, we seek innovative studies on microbial, plant-based, or combined biological remediation systems, with an emphasis on mechanisms, process optimization, and field applications. Topics of interest include (but are not limited to) the following:

- Development and application of biomonitoring tools for emerging contaminants;
- Biosensors and bioassays for pollutant detection;
- Bioaugmentation and biostimulation strategies;
- Synergistic processes involving biotic and abiotic remediation;
- Bioreactor systems and process engineering for pollutant removal.

Original research articles, comprehensive reviews, and case studies are all welcome. Contributions should highlight scientific innovation, interdisciplinary approaches, and the potential for environmental impact and sustainability.

Guest Editors

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