

Special Issue

The Applications of Modern Biotechnology to Environmental Pollution Control

Message from the Guest Editor

Emerging contaminants (ECs) of concern have raised serious health concerns globally due to their dissemination in the environment. As such, modern biotechnological advancements offer promising solutions for remediation and pollution control with a more sustainable approach. The Issue invites contributions that explore the innovative applications of modern biotechnologies in mitigating environmental pollution challenges in air, water and soil, aiming to effectively degrade recalcitrant pollutants of concerns. We welcome original research, including biodegradation of ECs; bioremediation of organic pollutants and biobased contaminants; assessment and monitoring of environmental pollutants; use of biological markers for tracking source-specific contamination in water bodies; degradation of volatile organic pollutants from waste gas using biofiltration for air pollution control; biological treatment of wastewater; characterization, viability and fate of persistent pollutants such as ARGs in water and soil; interdisciplinary approaches combining biotechnology with nanotechnology and engineered bioreactors for pollutant degradation.

Guest Editor

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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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