



Microbial Resources and Sustainable Remediation

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Message from the Guest Editors

Dear Colleagues,

Microbial remediation is a cost-effective and eco-friendly technology that provides a sustainable way to clean contaminated environments (mine areas, industrial wastewaters, nuclear-contaminated land, petroleum-polluted soil, etc.). The function of microorganisms in the management of emerging pollutants (heavy metals, antibiotic-resistance genes, microplastics, persistent organic pollutants, personal care products, pharmaceuticals, pesticides, surfactants, etc.) and eutrophication (nitrogen and phosphorus pollution) is critical to drive biogeochemical cycles, cope with global climate change, and maintain environmental and human health. Subtopics of the special issue including but not limited to the following:

- Microbial remediation of contaminated environments (mine areas, industrial wastewaters, polluted soils, etc.);
- Exploitation and sustainable application of microbial resources for remediation;
- Emerging pollutant biomonitoring and tracing;
- Microbial remediation mechanisms;
- Microbial remediation of pollutants in the laboratory and field;
- New techniques for microbial remediation based on multidisciplinary approaches.





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Message from the Editor-in-Chief

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