

Special Issue

Microbial Resources and Sustainable Remediation

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Chunqiao Xiao

School of Environmental Ecology and Biological Engineering, Wuhan Institute of Technology, Wuhan 430205, China

Prof. Dr. Yun Fang

School of Environmental Ecology and Biological Engineering, Wuhan Institute of Technology, Wuhan 430205, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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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. *Sustainability* publishes original research articles, review 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. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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