

Special Issue

Remediation for Sustainable Management

Message from the Guest Editors

Soil and water contamination by heavy metals and emerging organic pollutants is a major environmental challenge, threatening ecosystem health and water quality. Conventional remediation technologies are often costly, invasive, and difficult to implement on a large scale, highlighting the need for sustainable alternatives. Phytoremediation is an environmentally friendly approach that uses plants and associated microorganisms to remove, stabilize, or degrade contaminants. However, its efficiency is often limited by low contaminant bioavailability, phytotoxicity, and slow plant growth. Biochar, a carbon-rich material produced through biomass pyrolysis, can immobilize heavy metals, adsorb organic pollutants, improve soil properties, and enhance phytoremediation performance. This Special Issue welcomes original research and reviews on biochar-assisted phytoremediation for soil and water remediation. Topics include biochar-assisted remediation, engineered biochars, plant-microbe interactions, rhizosphere processes, wastewater treatment, circular economy approaches, biodiversity impacts, and field-scale applications.

Guest Editors

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Deadline for manuscript submissions

31 December 2026



Environments

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 5.7



mdpi.com/si/283746

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About the Journal

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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