Special Issue

Advanced Bioremediation Technologies and Processes— 2nd Edition

Message from the Guest Editors

Bioremediation is one of the most appealing approaches for the sustainable restoration of environmental matrices contaminated by organic or inorganic compounds. Various strategies, including natural attenuation, biostimulation, and bioaugmentation, can be applied to face the restoration of contaminated sites. The Second Edition of this Special Issue will focus on original research papers and comprehensive reviews dealing with innovative bioprocesses and technologies for sustainable, effective, and multidisciplinary restoration of contaminated sites. Topics of interest include, but are not limited to, the following:

Development of innovative bioremediation technologies for the restoration of contaminated environmental matrices;

Novel bioprocesses for remediation;

Advances in the characterization and monitoring of contaminated sites:

Advanced omics for bioremediation:

Circular economy in remediation technologies:

Bio-based materials from waste valorization processes for remediation technologies.

Machine learning approaches and artificial intelligence for remediation.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2025)



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Editor-in-Chief

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