

Special Issue

Bioremediation of Contaminated Soil, Wastewater and Biowaste in Agricultural System

Message from the Guest Editors

The expansion of industry and agriculture, combined with population growth, has raised significant concerns within the scientific community regarding environmental pollution and the depletion of natural resources.

Bioremediation has emerged as a promising solution, utilizing microorganisms, plants, enzymes, and genetic processes to degrade, transform, or remove pollutants from various environmental matrices. This Special Issue focuses on innovative bioremediation technologies applied to agricultural systems, with an emphasis on biostimulation, bioaugmentation (using microbial consortia and isolated microorganisms capable of degrading specific contaminants), genomic bioaugmentation, phytoremediation, and enzymatic degradation, among others. Topics of interest include, but are not limited to, the following: Bioremediation of organic and inorganic pollutants in agricultural soils, wastewater, and biowastes.

Advances in microbial consortia and genetically engineered microorganisms for pollutant degradation. Phytoremediation strategies and microorganism–plant interactions for soil and water cleanup.

Enzyme-based remediation techniques for agricultural waste management.

Guest Editors

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Message from the Editor-in-Chief

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