Special Issue

Innovative Approaches for the Remediation of Polluted Soils in Agricultural Systems

Message from the Guest Editors

Soil pollution poses a threat to agricultural sustainability, food security, and environmental health. Well-known pollutants such as heavy metals, pesticides, and hydrocarbons as well as contaminants of emerging concern, just to name a few, can compromise soil fertility, reduce crop productivity, and pose serious risks to both human health and ecosystem integrity. Recent advances in soil science and agronomy have driven the development of innovative, eco-friendly remediation strategies. Bioremediation using plant growth-promoting rhizobacteria and beneficial fungi, such as mycorrhizal fungi and Trichoderma species Phytoremediation, when combined with soil amendments such as biochar and compost, can improve soil quality and stimulate microbial activity. Emerging nanotechnologies, regenerative agriculture practices including cover crops and reduced tillage can help restore soil organic matter. A diversified, integrated approach is therefore essential to mitigate pollution and sustain soil health and productivity. This Special Issue welcomes contributions that advance knowledge on innovative soil remediation strategies and promote safe and sustainable agricultural production.

Guest Editors

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