

Special Issue

Sustainable Microbial Remediation of Oil-Contaminated Soils and Reclamation of Wastes

Message from the Guest Editor

This Special Issue includes microbial remediation, biostimulants, microbial metabolic functional genes, and environment-friendly microbial treatment practices. Oil-contaminated soils (OCS) generated from oil exploitation, oil transportation, petroleum refining, and wastewater treatment of refineries are a serious environmental problem all over the world. OCS typically consist of oil, water, solid particles, and a series of recalcitrant compounds such as long-chain alkanes, [polycyclic aromatic hydrocarbons](#) (PAHs), and phenols, which have a strong biotoxic and usually harmful influence on organisms. Waste reclamation and microbial remediation are considered the appropriate treatment way. Microbial remediation as an effective method has been applied to degrade OCS due to its low cost and environmental friendliness. This method mainly depends on the unique capabilities of [microbes](#) to interact physically and chemically with a number of compounds in the ecoenvironment.

Guest Editor

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