

Special Issue

Bioremediation of Petroleum Hydrocarbon-Contaminated Soil

Message from the Guest Editors

Topics include, but are not limited to, the following:

- Advanced Biostimulation and Bioaugmentation: Novel nutrient formulations, slow-release fertilizers, and the application of constructed microbial consortia or genetically modified organisms with enhanced degradative capabilities. The role of biosurfactants in increasing hydrocarbon bioavailability.
- Phytoremediation and Rhizoremediation: The synergistic interactions between plants and their associated rhizosphere microbiota in degrading hydrocarbons. Selection of hyperaccumulator or tolerant plant species.>
- Emerging Contaminants and Complex Mixtures: Bioremediation strategies for weathered hydrocarbons, emerging petroleum by-products, and co-contaminants (e.g., heavy metals).
- Innovative Strategies: The integration of bioremediation with other technologies (e.g., electro-bioremediation, use of biochar as an immobilization and amendment agent) to overcome rate-limiting factors.
- Modeling and Assessment: Development of predictive models for biodegradation kinetics and the application of advanced analytical tools for real-time monitoring and ecotoxicological assessment of remediation success.

Guest Editors

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