Special Issue

Bioremediation of Contaminated Soils

Message from the Guest Editors

Soil is a nonrenewable finite resource and its loss or degradation is not recoverable in an easy and timely manner. Among the possible strategies to clean up polluted soils, bioremediation takes advantage of the catabolic versatility of (micro)organisms to either degrade contaminants or to transform them into nontoxic products, thus preserving soil functionality. Bioremediation has been studied and steadily applied in the past decades by academic researchers and practitioners. However, more efforts are needed to understand the complex network of interactions existing between biological entities, for example, (micro)organisms, contaminants present in a polluted soil, and the soil matrix itself. The present Special Issue aims to collect original articles focusing on the variables involved in bioremediation processes: (1) Quantitative and qualitative determination of contaminants, considering also their aging and bioavailability; (2) environmental parameters and soil biodiversity/functionality; (3) effect of bioremediation intervention (e.g., biostimulation, bioaugmentation) on resident microbial communities; (4) ecotoxicology assessment.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2019)

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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