

Special Issue

Application of Bioremediation in Groundwater and Soil Pollution

Message from the Guest Editors

With the adjustment of industrial structures, urban expansion, and the rise of environmental movements, many manufacturing and processing enterprises around the world have been shut down or relocated, leaving behind millions of brownfields with groundwater or soil pollution. These abandoned contaminated sites requiring actions to remove or transform contaminants in both groundwater and soil. Bioremediation has garnered particular attention in the context of green, sustainable remediation of groundwater and soil due to its environmental, economic, and social friendliness. However, its large-scale application is still limited by constraints such as application scenarios, remediation efficiency, and the lack of comprehensive understanding of bioremediation processes under real-world conditions. This Special Issue aims to gather research that encompasses the latest advancements and applications of groundwater and soil pollution bioremediation. This Special Issue invites research and review articles on topics including, but not limited to, novel processes, detoxification mechanisms, application case studies, and life-cycle assessments in bioremediation.

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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