Special Issue

Application of Biotechnology in Water Treatment and Specific Treatments for Water Reuse

Message from the Guest Editors

Global changes, including pollution, climate change, population growth, and soil sealing associated with increasing water needs, are putting pressure on the availability of water resources. In this context, effective water cycle management is a necessity. Various biotechnology approaches have been used on a worldwide scale for water treatment. Biotechnology constitutes a key technology in the treatment of wastewater and gray water and in the treatment of rain water for better recharge groundwater. Biotechnology can be used either alone or in combination with other technology. It can also be used in the treatment of non-conventional water for direct and indirect reuse purposes. However, even though biotechnologies have been used for decades, improvements and the development of new processes pose a challenge for better efficiency and/or to reduce the cost of treatment. This Special Issue covers both relevant topics: the application of biotechnology in water treatment (wastewater, agricultural effluent, rain water) and specific treatments for direct and indirect water reuse. Original research articles, reviews, and short communications are welcome.

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Message from the Editor-in-Chief

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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