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Research on Advanced Biotechnologies for Water and Wastewater Treatment

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Deadline for manuscript submissions:

20 August 2024

Message from the Guest Editors

The MDPI journal *Water* is developing a Special Issue dedicated to recent advances in biotechnology related to water and wastewater treatment. The large-scale commercialization of biotechnology began more than four decades ago with an emphasis on basic research and biomedical applications. This Special Issue of *Water* will include manuscripts from the public, private and academic sectors on a variety of topics. The themes to be addressed include the following:

- Microbial source tracking of pathogens in watersheds and water treatment systems;
- Bio-based sensors for the qualitative and quantitative analysis of macro and trace contaminants;
- Bioelectrochemically enhanced wetland treatment;
- Optimization of methane production based on digester microbial community analysis and population adjustment;
- Algal-/microbial-based systems for heavy-metal removal from industrial wastewater;
- Integrated biological systems for wastewater treatment and carbon sequestration;
- The use of artificial intelligence (AI) in the optimization of microbial-based water/wastewater treatment systems.



mdpi.com/si/197608

Special Issue



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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.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

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