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Application of Biotechnology in Water Purification

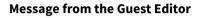
Guest Editor:

Dr. Razieh Rafieenia

MSCA Fellow, Department of Bioengineering, Imperial College London, London, UK

Deadline for manuscript submissions:

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This Special Issue, titled "Applications of Biotechnology for Water Purification", aims to showcase and disseminate recent developments related to bio-based technologies for water treatment and pollutant removal. We aim to explore key challenges in developing sustainable bio-based processes for water and wastewater treatment.

Topics of interest for this publication include, but are not limited to, the following:

-Emerging technologies for wastewater treatment based on biological degradation;

-Use of metabolic engineering to enhance degradation of water pollutants;

-Microbial electrochemical systems;

-Integrated systems combining microbes and other advanced oxidation processes, such as photocatalysis;

-Modelling of biological systems for wastewater treatment;

-Removal of persistent pollutants, including microplastics, antibiotics, pesticides, etc.;

-Techno-economic and environmental impact assessment of hydrogen production bio-based water treatment;

-Renewable energy generation from wastewaters using microbes;





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Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

Author Benefits

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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Water Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/water water@mdpi.com X@Water_MDPI