Special Issue

Biodegradation and Environmental Microbiomes

Message from the Guest Editors

The Earth is unique, and we human beings rely on its air, water, and land. Industrialization and human activities have improved our daily life at the cost of nature resources and environmental quality. Air pollution, water eutrophication, and land deterioration challenge our sustainable development, and new technologies are needed to address these challenges. Biodegradation and bioremediation are promising technologies that can return humanity to a sustainable development. Microbe, or microbiome (the sum of all microbes in a defined environment) is the main driving force for biodegradation and bioremediation. This Special Issue will cover new understandings of 1) what the nature and degree of air, water, and land pollution are, 2) how pollutants are degraded by natural or engineered microbes/microbiomes, and 3) successful large-scale implementation of biotechnologies for an improved environment. Both research articles and reviews are welcome. Prof. Dr. Shuang-Jiang Liu
Prof. Dr. Hong-Zhi Tang
Prof. Dr. Jian-Dong Jiang
Prof. Dr. Xiao-Lei Wu

Guest Editors

Prof. Dr. Shuangjiang Liu

Prof. Dr. Hongzhi Tang

Prof. Dr. Jiandong Jiang

Prof. Dr. Xiaolei Wu

Deadline for manuscript submissions

closed (30 June 2022)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/98039

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

MDPI