

Special Issue

Microbial Community Dynamics in Soil Ecosystems

Message from the Guest Editor

Soil microbiomes are Earth's most diverse communities, governing key ecosystem processes like decomposition, fertility, and climate regulation. However, their immense diversity remains largely unexplored, with most species and their functions unknown. This knowledge gap limits our ability to predict microbial community dynamics and their ecosystem functions under global environmental change. In this Special Issue, we aim to present the latest findings on “Microbial Community Dynamics in Soil Ecosystems”, focusing on the diversity, taxonomy, morphology, interaction, and distribution patterns of soil microorganisms across multiple environmental gradients. Specific topics include, but are not limited to, the following: (1) new methodologies for soil microorganisms; (2) microbial biogeography; (3) microbial responses and adaptations to global change; (4) plant–microbe interactions; (5) microbial roles in soil biogeochemical cycles; and (6) relationships between soil microbial diversity and multifunctionality. We intend for this Special Issue to serve as a reference work on soil microbial research for both professionals and students.

Guest Editor

Dr. Jiao Feng

Department of Ecology, College of Resources and Environment,
Huazhong Agricultural University, Wuhan 430070, China

Deadline for manuscript submissions

31 August 2026



Diversity

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 4.0



mdpi.com/si/212246

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

[mdpi.com/journal/
diversity](https://mdpi.com/journal/diversity)





Diversity

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 4.0



[mdpi.com/journal/
diversity](https://mdpi.com/journal/diversity)



About the Journal

Message from the Editor-in-Chief

Diversity (ISSN 1424-2818) is a scholarly journal that covers all areas of diversity research. Our distinguished editorial board and refereeing process ensures the highest degree of scientific rigor for publishing. Original research articles and timely reviews are released online, with unlimited free access.

We invite papers and reviews on multidisciplinary topics of diversity that bridge organismic diversity (systematics, biodiversity, phylogeny, population genetics, and evolution) and molecular diversity (phytochemistry and biophysics).

Editor-in-Chief

Prof. Dr. Michael Wink

Institute of Pharmacy and Molecular Biotechnology, Heidelberg
University, Im Neuenheimer Feld 329, D-69120 Heidelberg, Germany

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Biodiversity Conservation) / CiteScore - Q1
(Agricultural and Biological Sciences (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).