

## Special Issue

# Microbial Diversity and Function Exploration in Oilfield Ecosystems and Petroleum-Contaminated Environments

### Message from the Guest Editor

Microorganisms are associated with considerable biological activity in petroleum-impacted ecosystems, exhibiting remarkable metabolic versatility under both aerobic and anaerobic conditions. Such microbial systems now serve as vital models for the study of microbial ecology in extreme environments and the development of nature-based solutions for environmental protection. Under current environmental and energy requirements, research on microbial communities in oilfield ecosystems and their petroleum-contaminated surroundings has assumed critical importance. As global energy demands continue to drive petroleum extraction and transportation, investigating how microbial communities respond and adapt to these petroleum-rich habitats presents both fundamental challenges and practical opportunities. This Special Issue will highlight innovative research that elucidates the diversity, ecological functions, and biotechnological potential of microbial communities in oilfield and petroleum-contaminated environments.

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### Guest Editor

Prof. Dr. Yanling Ma

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### Deadline for manuscript submissions

28 February 2026



## Diversity

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## 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).

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### Editor-in-Chief

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