Special Issue

Petroleum Microbiology

Message from the Guest Editors

In 2026, it will be 100 years since the first articles on petroleum microbiology. Petroleum reservoirs are now recognized as integrated ecosystems, where microbial populations interact with the environment and with each other, while the energy flows are based on biotransformation of oil and exogenous trophic substrates in a trophic change and may be regulated.

This Special Issue will publish papers that address a wide range of problems of petroleum microbiology: (1) phylogenetic and functional microbial diversity in petroleum and gas reservoirs and underground gas storage; (2) the new taxa of prokaryotes from petroleum reservoirs; (3) CO2 sequestration in petroleum reservoirs and its influence on microbial communities; (4) aerobic and anaerobic biotransformation of crude oil and bitumen; (5) impact of metagenomics approaches in ecology of microorganisms in petroleum reservoirs; and (6) biotechnologies for the oil industry, including microbial enhanced energy recovery, microbiologically influenced corrosion and souring, etc.

Guest Editors

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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.

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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).

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