

Special Issue

Interaction between Microorganisms and Metals in Extreme Environments

Message from the Guest Editors

Microorganisms and minerals interact in a bi-directional way. Environmental physico-chemical characteristics shape microbial communities and help to select for well-adapted microorganisms. Likewise, microorganisms dissolve, transform and produce minerals, which affect metals modifying geochemical cycles, bioavailability, toxicity, and speciation. Understanding the interaction between microbes and metals is of great importance to develop new bioremediation strategies, prevent further contamination of water and soil, and to develop new biotechnological applications. This Special Issue focuses on metal-microbe interactions in natural or manmade extreme environments: alkaline, acidic, extreme temperatures, salinity, radiation, anoxia, extreme pressure, and any other environments considered extreme. We accept manuscripts from scientists at any stage of their career, though we would like to highlight scientists at an early stage of their career in this Special Issue so as to encourage early-career researchers to submit their manuscripts.

Guest Editors

Dr. Carmen Falagán

Dr. Mario Toubes-Rodrigo

Dr. Tomasa Sbaffi

Deadline for manuscript submissions

closed (15 July 2022)



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

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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,
Germany

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High Visibility:

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Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).