Special Issue

Trace Metal Distribution and Cycling in Aquatic Environments

Message from the Guest Editor

Many trace elements, especially the first-row transition metals in the periodic table, are essential micronutrients, while many others are known to be toxic. Whether a trace metal is a nutrient or a toxin depends on its concentration, speciation, and availability. With continued advances in analytical geochemistry, it has become possible to retrieve detailed speciation information to a molecular scale as well as to measure concentration at ultra-low levels. This new information is allowing for an advanced understanding of sources of trace metals, dispersion and cycling, uptake pathways and biolimiting or toxic nature of trace metals in aquatic systems. This Special Issue seeks manuscripts on topics related, but not limited, to advancement in analytical techniques for determining concentration and speciation of trace metals, processes controlling trace metal dynamics in freshwater, seawater, and anthropogenically impacted aquatic systems, trace metal–cellular interaction and modeling of trace metal transport, and distribution and control of biogeochemical processes. Manuscripts focusing on global oceans, which are very much understudied, are highly encouraged.

Guest Editor

Prof. Dr. Alakendra N Roychoudhury
Department of Earth Sciences, Stellenbosch University, Stellenbosch 7600, South Africa

Deadline for manuscript submissions

closed (31 October 2021)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/49237

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

mdpi.com/journal/minerals

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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