



## Trace Metal Distribution and Cycling in Aquatic Environments

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (31 October 2021)**

### 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.





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## Editor-in-Chief

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## 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.

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