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Bio-Geochemistry of Heavy Metals/Metalloids

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Deadline for manuscript submissions:
closed (31 August 2022)

Message from the Guest Editors

The subject of this Special Issue is the presentation of new results and/or comprehensive reviews on the:

- Sources and processes of heavy metal/metalloid transfer to the food chain and their effect on human health and ecosystems.

- The uptake and bio-transformation mechanisms occurring in plants and their role in bioaccumulation.

- The correlation between metal/metalloid toxicity and the oxidation state, physicochemical conditions of the environment, ligands, solubility, and other factors.

- Comparison of the physico/chemical characteristics between the plant–soil interface termed the rhizosphere system and the bulk soil.

- Mechanisms associated with the toxic effects of heavy metals/metalloids in humans and ecosystems.

- The role of micro-organisms in metal recovery from raw ore materials and environmental risk.

- Implications of biogeochemistry for human health, heavy metal/metalloid sustainable mining, remediation of land and groundwater aquifers, and other sciences.

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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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