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Elemental Concentration and Pollution in Soil, Water, and Sediment

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Deadline for manuscript submissions:
closed (18 June 2021)

Message from the Guest Editors

Dear Colleagues,

Certain elements are essential to the growth and health of living organisms with specific biochemical functions or processes in their metabolisms. However, when the amount of a trace element exceeds a certain threshold, it can become toxic. Therefore, the environmental levels of various trace elements in soil, water, or sediment are of major concern due to their potential adverse health effects.

This Special Issue aims to cover a broad range of topics relevant to the presence of trace elements in different ecosystems, such as:

- mobilization of trace elements in the environment;
- presence of trace elements associated with natural and anthropogenic sources;
- transport of trace elements among different environmental compartments;
- natural geochemical and biological processes that govern metal transportation;
- weathering of trace-element-bearing rocks;
- release of metal(loids) and technology-critical elements (TCEs) into the environment;
- toxicity for living organisms, and the bioaccumulative potential of trace elements;
- trophic transfer in aquatic and terrestrial food chains/webs; and
- environmental and health concerns with trace elements.

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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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