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Elemental and Isotope Geochemistry of the Earth's Critical Zone

Guest Editors:

Dr. Claudio Natali
Department of Earth Sciences, University of Florence, Florence, Italy

Dr. Gianluca Bianchini
Department of Physics and Earth Science, University of Ferrara, Via Saragat 1, 44122 Ferrara, Italy

Deadline for manuscript submissions:
closed (30 November 2020)

Message from the Guest Editors

Dear Colleagues,

The Earth's critical zone is the supergene environment where complex processes involving rocks, sediments, soil, water, air, and living organisms are precursors for geobiological reactions.

Elemental and isotopic analyses of geological and biological matrices are of fundamental importance in the study of the genesis and evolution of the Earth's critical zone. Geochemical tracers represent powerful tools for the identification of source areas and pathways that link sources and sinks. Emphasis will be given to studies that explore geochemical fractionations between lithosphere, pedosphere, rhizosphere, hydrosphere, and atmosphere.

We also encourage contributions dealing with the use of elemental and isotope compositions to provide information:

- On natural (geogenic) geochemical backgrounds and for the identification of anthropogenic contribution of potentially toxic elements (PTE), such as heavy metals.
- On specific uses of georesources (soils, water, ores) that have to be exploited with conscious and sustainable approaches.

Dr. Claudio Natali
Assoc. Prof. Gianluca Bianchini
Guest Editors

mdpi.com/si/30846

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Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut,
University Bayreuth, D-95440
Bayreuth, Germany

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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Journal Rank: JCR - Q2 (*Mineralogy*) / CiteScore - Q2 (*Geology*)

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Minerals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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