Special Issue

Element Migration and Isotope Fractionation during Mineral Weathering

Message from the Guest Editor

Silicate weathering can shape the Earth's surface, regulate global carbon cycles and determine nutrient supply to ecosystems, and is also a key process in controlling Earth's climate by regulating carbon dioxide levels. Silicate weathering, on the other hand, involves the incongruent dissolution of primary minerals and precipitation of secondary minerals, during which element migration and isotope fractionation take place. Therefore, studying the element migration and isotope fractionation behaviors during mineral weathering would be conducive to revealing the relationship between silicate weathering and global cycles of carbon and other elements.

Guest Editor

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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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