



Mineral Evolution and Mineralization during Weathering

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Deadline for manuscript
submissions:
closed (24 January 2025)

Message from the Guest Editors

Weathering plays an essential role in the functioning of the Earth system. It is one of the key factors in the conversion of bedrock into soils, the shaping of Earth's surface and regulation of the long-term carbon cycle.

The Guest Editors of this Special Issue invite colleagues to contribute papers concerning processes associated with mineral evolution and mineralization during weathering. This includes—but is not limited to—(1) the origin, formation, and transformation of clays in the surface weathering zone; (2) the structural and chemical characterization of near-surface mineral evolution that occurs during weathering; (3) studies of factors controlling the supergene processes that liberate, transport, and fix ore-forming elements in the critical zone, and generalized models to illustrate associated ore formation; (4) mission observations and laboratory-based, field-analog and theoretical studies that aim to understand clay minerals and weathering processes in terrestrial and extraterrestrial samples;





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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