

Special Issue

Footprints of Mineral Systems

Message from the Guest Editors

Mineral deposits are local expressions of a mineral system that involve multiscale mass and energy transfer processes. The footprint of a deposit can be defined from the integration of several methods and, when well characterized, indicates important exploration vectors for the identification of new targets in mineralized terrains. The big challenge is to understand how mineralizing fluids affect the physical and chemical properties of rocks, but also the magnitude of interaction between fluids and host and temperature gradients related to the distance of the main fluid conduits. This issue aims to highlight the latest advances in applied science to the understanding of the footprint of mineral systems, which highlights (1) geodynamics and mineral systems through integrated multidisciplinary approaches; (2) processes that form mineral deposits; (3) characterization of the footprint through geophysical, geochemical, petrophysical, and/or mineral mapping data; and (4) multisource data integration using expert systems, machine learning or artificial intelligence.

Guest Editors

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Deadline for manuscript submissions

closed (30 October 2022)



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About the Journal

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).