Special Issue

Hydrothermal Fluid and Metal Transportation: Fluid Inclusions and Ore-Forming Process

Message from the Guest Editors

This Special Issue is organized into four sections: Section 1. Describe the characteristics and evolution of ore-forming fluids: analytical methods, data analysis, and case studies of hydrothermal deposits are discussed. Section 2. Describe alteration and its application to exploration: case studies, mechanics of the formation of hydrothermal alteration, and its application to exploration are discussed. Section 3. Describe experimental and thermodynamic simulations of hydrothermal fluids: The solubility of metals in hydrothermal fluids, element speciation in aqueous fluids, the ligand of metal transportation, and the geochemical modeling of hydrothermal fluids are discussed. Section 4. Describe controls and mechanisms of fluid flow: structural and lithological controls, controls to grade distribution, and ore shoot/pay zone formation are discussed. This Special Issue aims to present the role of hydrothermal fluids during the formation of mineral deposits and the mechanisms of element dissolution and precipitation.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2023)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/147647

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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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