Special Issue

Distribution and Segregation of Trace Elements in Hydrothermal Systems

Message from the Guest Editors

Despite the comprehensive development of computer modeling of natural systems, many important questions remain unsolved. We still fail to reliably explain the ratios of trace elements (TE) observed in minerals even in widespread minerals of hydrothermal, sedimentary–hydrothermal, and other ore-forming systems. Little attention has been given to TE fractionation into real mineral crystal bearing different structural imperfections (defects) ... This Special Issue will focus on the regularities of TE behavior in hydrothermal systems, including but not limited to topics such as prediction of TE contents in hydrothermal minerals crystallized from aqua-salt solutions; restoration of paleofluid composition in respect of TE using the minerals of variable composition; analysis of TE entrapment by real mineral crystals containing structural imperfections; experimental and theoretical grounds for ultralow-content element distribution; and partitioning of highly incompatible elements between minerals and solutions (fluids).

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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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