Special Issue

Physical Processes in Magmatic-Hydrothermal Ore Systems: Highlights from Field, Experiment and Modeling Approaches

Message from the Guest Editor

The magmatic-hydrothermal transition has been recognized as a major stage in the genesis of mineralizing fluids through the contribution of volatile phases exsolution from silicate melts. While many breakthroughs were realized in the chemistry and thermodynamics of such fluids and associated fluid-rock interactions (e.g., metasomatism, such as greisens, tourmalinites, skarns, etc.), petro-physical processes remain poorly understood and quantified. This impedes hydro-thermo-mechanical models to be accurate and predictive. [...] The goal of this Special Issue is to provide a platform for geoscientists dealing with mineralized systems related (directly or indirectly) to the magmatic-hydrothermal transition, in order to discuss new insights in hydrodynamic controls of such systems. Dr. Yannick Branquet

Guest Editor

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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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