Special Issue

Understanding Hydrothermal Ore Deposits: Insights from In-situ Analyses

Message from the Guest Editors

Ore deposits continuously provide a mass of valuable resources for human society. With the development of analytical instruments, high-precision in situ analysis has been a critical means of understanding hydrothermal ore deposits. This provides us a unique window for investigating various aspects of ore deposits, ranging from the tectonic background, source and evolution of ore fluids, to mineralization factors (e.g., P-T-X conditions, the redox environment, and the water content). This Special Issue is focused on relevant topics, including but not limited to (1) exploration and deposit geochemistry; (2) the mineral chemistry of ores, gangue minerals, and accessory minerals that hold significant clues about metal deposition; (3) the geochronology of ore deposits; and (4) the application and development of in situ analyses in ore-deposit-related studies.

Guest Editors

Prof. Dr. Kunfeng Qiu

School of Earth Sciences and Resources, China University of Geosciences, Beijing 100083, China

Dr. Callum Hetherington

Department of Geosciences, Texas Tech University, Lubbock, TX 79409-1053, USA

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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

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