Special Issue

Geology and Mineralogy of Hydrothermal Gold Deposits

Message from the Guest Editors

In this century, there have been important advances in the classification and understanding of hydrothermal gold deposits, as gold occurs in different deposit types and geological settings. The deposit types encompass a wide range of genetic models, such as orogenic; reduced intrusion-related; Cu–Au porphyry; skarn; high-, intermediate-, and low-sulfidation epithermals; Carlin; Au-rich VMS; IOCG; or Witwatersrand-type deposits. In a broad sense, gold deposits can fit roughly into any of the defined models, but each deposit has distinctive characteristics and/or is not easily classifiable. Therefore, their study provides new data for improving the existing models. This Special Issue will focus on the geology and mineralogy of hydrothermal gold deposits in order to gain insight into the geodynamic history, metal sources, and transport, together with depositional mechanisms in these systems. This Special Issue is an attempt to create up-to-date information on gold deposit models. We thank you and look forward to receiving your contributions.

Guest Editors

Dr. Antonia Cepedal
Department of Geology, University of Oviedo, Oviedo, Spain

Dr. Mercedes Fuertes-Fuente
Department of Geology, University of Oviedo, Oviedo, Spain

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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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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.

Editor-in-Chief

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

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