Special Issue

Sustainable Exploration and Development of Precious Metal Mineral Resources

Message from the Guest Editors

Precious metal mineral resources (Au, Ag, Pt, Pd, Rh, Ir, Ru, Os) are important to the sustainable development of society. This Special Issue focuses on three cross-research directions related to precious metal mineral resources and sustainability. First, the global-to-regional distribution and genesis of precious metal mineral resources. Second, sustainable exploration and development using advanced technology, including the following: 3D digital geophysical and geochemical exploration models, especially using big data sets, deep drilling and mining, and comprehensive recovery of precious elements from waste products. Third, environmental issues related to the development and utilization such as treatment of surface-groundwater, and disasters caused by the exploration and development of precious metal mineral resources. This Special Issue will collect papers regarding the distribution, genesis, exploration and development of precious metal mineral resources and related environmental protection problems on the abovementioned issues. Contributions are welcomed on the intersection of precious metal mineral resources and sustainable development.

Guest Editors

Prof. Dr. Huan Li

Dr. Yang Liu

Dr. Yulong Lu

Dr. Peng Wang

Deadline for manuscript submissions

closed (31 May 2024)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/173261

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

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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.

Editor-in-Chief

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

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Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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