Special Issue

New Methods and Technologies for Mineral Geological and Geophysical Exploration in China

Message from the Guest Editors

Geophysics is an important means of perceiving deep underground targets. Deep geophysical exploration is mainly based on two kinds of methods: acoustic wave, such as seismic exploration (which is similar to B-ultrasound for the earth); and electromagnetic wave, such as electromagnetic exploration (similar to doing CT for the earth). Taking electromagnetic methods as an example, electromagnetic exploration methods play an important role in deep structure, mineral resources, and oil exploration, especially in the analysis of crustal structure and ore field structure, the tracing of regional ore-forming fluid, research on characteristic mineralization and continental geodynamics, research on unconventional natural gas accumulation dynamics, the exploration of concealed deposits and deep oil and gas reservoirs, the investigation of underground water sources, and the exploration of geological environment...With the development of deep exploration in China, it is of great significance to carry out research on new theories, methods, and technologies of geophysical exploration to ensure the safe supply of mineral resources and promote the sustainable development of the national economy.

Guest Editors

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Deadline for manuscript submissions

closed (17 June 2022)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/89528

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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.

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