Special Issue

Geoelectricity and Electrical Methods in Mineral Exploration

Message from the Guest Editor

Electrical prospecting includes the DC method, self-potential method, induced polarization method, electromagnetic method, etc. It is a kind of geophysical method that uses artificial or natural signals to detect electrical parameters from the surface to the bottom of the lithosphere. This type of method collects electric or electromagnetic signals on the surface, in wells, or in water and obtains electric parameter models such as the polarizability and resistivity of underground media through data processing and inversion. Finally, according to the distribution characteristics of these parameters, the continental dynamics, plate boundaries, faults, volcanoes, and earthquake zones, as well as shallow research such as oil and gas, mineral deposits and geothermal field, are studied. This Special Issue calls for papers on the research of electrical prospecting, mainly including but not limited to the relationship between the electrical structure and deep mineralization, volcanoes, metal ore exploration, geothermal resource exploration, etc.

Guest Editor

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Deadline for manuscript submissions

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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.

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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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