Special Issue

Development of Geoelectrical and Electromagnetic Methods in Mineral Exploration

Message from the Guest Editors

The goal of mineral exploration is the discovery of new deposits of economic value with the purpose of extracting them to feed the needs of industry. In the last several decades, a great deal of progress has been made in the development and use of geoelectrical and electromagnetic geophysical methods in mineral exploration—especially regarding the exploration of targets located the first kilometer below the ground surface. This Special Issue targets contributions from laboratory to field measurements, numerical forward and inverse modeling, as well as petrophysical models able to connect the properties of minerals to the geophysical properties of interest. Our goal is to provide an updated view of the state-of-the-art in terms of geoelectrical and electromagnetic methods applied to mineral exploration. This Special Issue is also open to a variety of methods, including magneto-resistivity, magneto-induced polarization as well as seismoelectric and electroseismic effects, just to cite a few.

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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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