



Modeling and Inversion of Gravity, Magnetic and Electromagnetic Related to Mineral Deposits

Guest Editors:

Dr. Le Wan

Department of Geology and
Geophysics, University of Utah,
Salt Lake City, UT 84112, USA

Prof. Dr. Liangjun Yan

Key Laboratory of Exploration
Technologies for Oil and Gas
Resources, Yangtze University,
Wuhan 430100, China

Prof. Dr. Michael S. Zhdanov

Department of Geology and
Geophysics, University of Utah,
Salt Lake City, UT 84112, USA

Deadline for manuscript
submissions:

closed (23 August 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue welcomes papers related to all aspects of mineral resources, including geological, geophysical, geochemical, borehole, ground, and airborne methods and satellite imagery. Contributions regarding historical, technical, and practical aspects of exploration for mineral deposits are invited. Papers should either focus on a novel methodology of mineral exploration or present case studies where established or innovative techniques were successfully used. In addition, contributions are welcome providing novel insight into the foundations of geological, geophysical, and geochemical methods. The publications can be dedicated to field procedures and analytical techniques of geochemical exploration methods. Novel methods of gravity, magnetic, electromagnetic, radiometric, and seismic prospecting and their integration, including mathematical aspects of data processing and interpretation, as well as studies concerning remote sensing, production, and geographic information systems in mineral exploration, are welcome. The submission of papers on rock sample studies, survey design, data processing, and applications for mineral exploration are also encouraged.





an Open Access Journal by MDPI

Editor-in-Chief

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), GEOBASE, GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

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

Contact Us

Minerals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/minerals
minerals@mdpi.com
[X@Minerals_MDPI/](https://twitter.com/Minerals_MDPI/)