

## Special Issue

# Remote Sensing-based Mineral Exploration

### Message from the Guest Editors

Multispectral and hyperspectral remote sensing data have been used for mineral identification and exploration for decades. This development has been driven, on one hand, by a need to discover new ore deposits, and, on the other hand, by technological developments, such as the miniaturization of instruments. In recent years, unmanned aerial vehicle (UAV)-based remote sensing has gained momentum as an intermediate-scale and flexible solution that offers both high spatial resolution and the ability to cover large and inaccessible areas. Albeit limited to areas with no extensive vegetation or sediment cover, optical spectroscopy offers a non-destructive and potentially cost-effective means of optimizing mineral exploration strategies and identifying new ore deposits. This Special Issue will give an overview of the latest trends in remote sensing-based mineral exploration. Papers from all perspectives relevant to the topic are welcome, including those that report new advances in laboratory-based hyperspectral imaging. In particular, papers that explore the use of recent and emerging technologies, such as deep learning algorithms and UAVs, are welcome.

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### Guest Editors

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### Deadline for manuscript submissions

closed (16 July 2021)



## Minerals

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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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### Editor-in-Chief

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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)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).