Special Issue

Remote-Sensing Techniques in Mineral and Geological Studies

Message from the Guest Editors

This Special Issue aims to report on the latest theoretical advances, methodological innovations and practical applications of remote sensing, including multispectral, hyperspectral, microwave and thermal infrared techniques, in the field of mineralogy. The issue will cover research outcomes from spectral mechanisms, remote-sensing data processing and modelling to mineral exploration and environmental monitoring. Key areas of interest include (but are not limited to): 1. Mechanisms, influencing factors and modelling of mineral spectral responses 2. Enhancement, extraction and fusion methods for mineral spectral features 3. Multi-platform (ground-based, UAV, airborne and satellite) remote sensing for mineral identification and mapping 4. Remote-sensing techniques for identifying rock and ore types and determining mineral content in mining areas 5. Applications of optical and remote sensing in mineral exploration and prospecting. 6. Remote sensing for monitoring and assessing mining environments and extraction processes. 7. Identification and prospecting of minerals in dense vegetation-covered areas, especially with the application of microwave remote-sensing techniques.

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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 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).

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