



Advanced Spectral Techniques for Mineralogical and Elemental Analysis in Mining and Mineral Processing

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Deadline for manuscript submissions:

closed (20 March 2021)

Message from the Guest Editors

It is our pleasure to invite you to contribute to this Special Issue of *Minerals* titled “Advanced Spectral Techniques for Mineralogical and Elemental Analysis in Mining and Mineral Processing”, which aims to cover advances and trends in spectral sensing systems for real-time characterization of mineral samples in mining and metallurgical processes. As you know, the mineralogical and elemental characterization of ores, slurries, concentrates, and molten phases are key tasks during the extraction and processing of mineral resources. Most of these analytical characterizations are performed in specialized laboratories using time-consuming and costly procedures, which include sampling, physical and chemical treatments, and spectroscopic measurements and calibrations..We encourage you to publish your latest developments with respect to spectral sensors and analytical methods, including data processing that contributes to overcoming the existing gap in real-time analytics for the mining and metallurgical industry.





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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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