Special Issue

Hyperspectral Imaging for Mineral Mapping

Message from the Guest Editor

Imaging spectroscopy (also called hyperspectral imaging or “HIS”) is one of the most powerful non-destructive remote sensing tools to obtain accurate mineralogical information about inaccessible targets—information which is often not available by other techniques. Identification of minerals and other geologic materials using visible to near infrared (VNIR), shortwave infrared (SWIR), and now longwave infrared (LWIR) spectroscopy is well established. [...] The aim of this special issue is to focus on recent advances in the understanding and the quantitative interpretation of mineral/rock spectral signatures in the VNIR, SWIR and LWIR spectral ranges in terms of chemical composition and physical properties, the understanding of intimate/areal mixtures as well as radiative transfer modeling.

Guest Editor

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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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