Special Issue

Understanding Geological Processes through Laser-Induced Breakdown Spectroscopy Analysis

Message from the Guest Editor

Laser-Induced Breakdown Spectroscopy (LIBS) has advanced from one-off instruments developed in individual laboratories to off-the-shelf instruments, including hand-held models. The availability of LIBS instruments, the use of a variety of multivariate modeling techniques to LIBS spectra, and LIBS' unique ability to analyze a large number of samples have led to an explosion of applications in many areas of the earth sciences. This Special Issue aims to explore how our understanding of earth processes and resources are illuminated via LIBS analysis.

Guest Editor

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Deadline for manuscript submissions

closed (25 September 2025)

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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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