Special Issue

X-ray Fluorescence Spectrometry in Mineral and Glass Analysis

Message from the Guest Editor

X-Ray Fluorescence (XRF) is an extremely useful analytical technique that can be used for chemical element analyses on materials such as minerals and glass samples. For high Z elements, the limit of detection of the XRF technique can approach parts per million under ideal conditions. This technique is particularly suited for the characterisation of glass samples, such as glasses used as potential hosts for nuclear waste storage. In these materials, all of the elements of interest should be completely dissolved in the glass matrix. Therefore, there should be no crystalline component, making characterisation by diffraction techniques unsuitable. This Special Issue aims to publish papers with appropriate examples that confirm the important role of the XRF technique in the characterisation of mineral and glass samples. Papers showing how the XRF technique can be developed to give improved analytical results are also welcome.

Guest Editor

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Deadline for manuscript submissions

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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 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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