

Special Issue

Optical Spectroscopy of Phosphate, Sulfate and Carbonate Minerals

Message from the Guest Editor

Collectively, phosphate, sulfate, and carbonate mineral groups occur in a wealth of terrestrial sedimentary settings. They are widely used in everyday life, they find application in a range of essential industries, and are of significant interest in planetary exploration.

Considerable endeavour has been devoted to understanding the optical spectroscopic signatures of these mineral groups. However, the very nature of the challenge is such that spectroscopic characterisation of the ever-expanding list of synthetic and natural carbonate, sulfate and phosphate mineral compounds remains work in progress, as does the use of vibrational spectroscopy as a tool to decipher mineral paragenesis, hydration and dehydration reactions. Accordingly, the aim of this Special Issue is to publish papers on the most recent advances in vibrational spectroscopy in relation to the characterisation of stable and metastable carbonate, sulfate and phosphate mineral compounds.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2018)



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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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Rapid Publication:

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).