Special Issue

Crystal Chemistry of Sulfate Minerals and Synthetic Compounds

Message from the Guest Editor

The last few decades have seen a significant interest in sulfate minerals and synthetic compounds. Their role in the formation of industrially important deposits, evaporites, and active volcanic fumaroles draws attention to their behavior. The investigation of hydrated Mg, Fe, and Ca sulfates under non-ambient conditions provides insight into the physical and chemical conditions present on the surface of Mars, Galilean icy moons, and meteorites. Synthetic sulfate compounds are a broad class of materials with applications ranging from high-tech energy industries to biomedical and bioengineering fields. State-of-the-art X-ray diffraction techniques facilitate the precise examination of crystal structures of minerals and materials under diverse P-T conditions. In this Special Issue of *Minerals*, we invite contributions examining sulfate minerals and synthetic compounds, their crystal structures, HT/LT and HP behavior, and related aspects.

Guest Editor

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Deadline for manuscript submissions

28 February 2026

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/231612

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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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