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Formation of Sulfate Minerals in Natural and Industrial Environments

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Deadline for manuscript submissions:
closed (14 May 2021)

Message from the Guest Editors

Dear Colleagues,

Sulfate ions are ubiquitous in the environment, and as a result sulfate-containing minerals constitute one of the largest and most important groups of minerals. A variety of products relying on the crystallization of sulfate minerals have been employed, including grout, mortar, and cement production, dye synthesis, glass production and metallurgical processes, decorative products, and all sorts of wastewater treatments. Furthermore, the formation of sulfate minerals is a common nuisance in many engineering environments (e.g., water desalination and oil production environments. For this Special Issue, we invite submissions from a broad scope of subjects related to the formation and properties of sulfate minerals.

- nucleation and growth of sulfate-containing minerals;
- kinetic and thermodynamic aspects of the formation and transformation of sulfate-containing minerals;
- sulfate-containing minerals in cement and other novel binders;
- sulfate-containing minerals on Earth and beyond;
- the processing of sulfate-containing minerals from cultural heritage and archaeological perspectives;
- sulfate scale formation and inhibition mechanisms.

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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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