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Barite

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Deadline for manuscript submissions:
closed (31 January 2020)

Message from the Guest Editors

Barite is a natural mineral which not only occurs in hydrothermal environments but also forms as unwanted scale. It is a highly insoluble mineral and has therefore been studied as a model for sparingly soluble salts. Furthermore, barite is relevant to ocean sedimentology and the geochemistry where the trace elements taken up during crystallization are used as a proxy to understand the marine barium cycle.

We welcome studies including:

- Experimental and theoretical work;
- The barite–water interface;
- Geochemistry of barite in oceanic settings;
- Nucleation and growth of barite and isostructural minerals;
- Crystallography, bulk, and surface physical properties of barite and isostructural minerals;
- Environmental aspects: Scale formation of barite-type minerals and incorporation of foreign ions, remediation of pollutants by barite;
- Reactive transport and barite-based model systems;
- NORM and barite;
- Crystallography, bulk, and surface physical properties of barite and iso-structural minerals;
- Environmental aspects: Scale formation of barite-type minerals;
- Reactive transport and sulphate as model systems in porous media.

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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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