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Calcite

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Deadline for manuscript submissions:
closed (20 December 2019)

Message from the Guest Editors

Calcite ($CaCO_3$), which provided the creative impulse to René Juste Haüy to imagine the crystal state as a periodic discontinuity of solid matter made by "molécules intégrantes", is a widespread mineral occurring in nature, both in the inorganic geological world and in living organisms. Owing to its bi-refringence, calcite has been used in optical microscopy and in military weaponry. It also occurs as alabaster and marble in cultural heritage. Finally, it has a wide range of applications, such as in soil remediation and stabilization and concrete repair.

This Special Issue is devoted to calcite, and will focus on:

- Crystallography, bulk and surface physical properties, twinning (geometry and growth)
- Equilibrium and growth morphology (theoretical aspects, habit change due to the impurity adsorption /absorption)
- Phase relationships with its polymorphs (vaterite, calcite) and its amorphous precursors
- Biomineralization
- Occurrence in the inorganic geological word
- Modern applications in industry and environment
- Cultural heritage: Art and remediation

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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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