



Crystal Nucleation and Growth

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Message from the Guest Editor

Dear Colleagues,

Advances in analytical methods that allow us to investigate solids on the nanoscale, in combination with the developments in computational methods, have significantly enhanced our knowledge on crystal nucleation and growth during the last decades. This Special Issue is dedicated to experimental and theoretical work on crystal nucleation and growth in purely inorganic and biogenic systems. Process based studies on the role of trace elements and organic molecules on crystal formation and transformation as well as their role in the formation of mesocrystals are welcome for this Special Issue. The focus of the studies should be on a process-based level, e.g., investigating the thermodynamics and kinetics of a system rather than presenting purely descriptive studies.

Keywords: Crystal nucleation; Crystal growth; Precursor phases; Phase transformation; Biomineralization; Mesocrystals; Kinetics; Thermodynamics; Trace elements

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Editor-in-Chief

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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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