

Special Issue

Crystallization in Solid Solution-Aqueous Solution Systems

Message from the Guest Editor

Natural crystallization in aqueous systems involves in most cases the incorporation of foreign ions into the growing mineral, resulting in the formation of solid phases with substitutional impurities in their structures, i.e., solid solutions. On the Earth's surface, subsurface and aquatic environments the formation of solid solutions from multicomponent aqueous solutions is one of the most ubiquitous phenomena [...]. This Special Issue will focus on different aspects of the crystallization in solid solution-aqueous solution systems, including both, primary crystallization and dissolution-recrystallization processes. We welcome manuscripts dealing with recent advances on environmental remediation by crystallization of solid solution, the relationship between isomorphic substitutions and polymorph selection and polymorph stability crossovers, crystal growth mechanisms and kinetics, crystal habit variation, ion partitioning at equilibrium and at far from equilibrium conditions, solid solutions in biomineralization, and, in general, any topic that involves the formation of solid solutions from multicomponent aqueous solutions.

Guest Editor

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).