Special Issue

Crystallography of Calcium Phosphates Minerals

Message from the Guest Editors

Calcium phosphates and their substituted forms are widely used in human life, including but not limited to in biomedical applications, adsorptions, water purification, catalysts, and nutrition additives. This Special Issue is dedicated to recent advances in the crystallography and physical chemistry properties of calcium phosphate minerals and their synthetic analogs in the form of nanoparticles, powders, ceramics, and cement materials. Cations and anion substitutions in the calcium phosphate's structure, as well as composite materials and minerals, open broad opportunities to design and create materials with outstanding properties. Investigations into composition–structure–property relationships using modern characterization techniques and theoretical models, computer simulations, and first-principles calculations are the focus of the Special Issue, aiming to give rise to the elucidation of materials with improved characteristics. The data of experimental investigations and theoretical and calculation results for calcium-phosphate-based materials in the form of original articles, communications, and reviews are warmly welcome.

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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.

Editor-in-Chief

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