Special Issue

Biocrystallization and Environmental Archives. *Revisiting the Urey's "vital effect" Concept*

Message from the Guest Editors

During the last three decades a series of innovative physical methods applied to calcareous biominerals resulted in considerable changes regarding the concept of biocrystallization. [...]

Taking advantage of our unprecedented analytical capabilities the scope of this Minerals issue is to trigger an up-to-date attempt to address the vital effect question that is still a major hampering factor in the use of calcareous skeletons as environmental archives. From investigations dealing with cellular processes to experiments in which mineralogical and crystallographic properties of naturally or experimentally produced Ca-carbonate materials will be compared to their specific chemical or isotopic properties. This special issue dedicated to the prophetic and still unexplained Urey's hypothesis will be a milestone in the field.

Guest Editors

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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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