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Chemical, Mineralogical and Isotopic Studies of Diagenesis of Carbonate and Clastic Sediments

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Deadline for manuscript submissions:
closed (15 August 2020)

Message from the Guest Editors

Dear Colleague,

Diagenesis of carbonates and clastic sediments encompasses the biochemical, mechanical, and chemical changes that occur in sediments subsequent to deposition and prior to low-grade metamorphism. These parameters which, to a large extent, control diagenesis in carbonates and clastic sediments include the primary composition of the sediments, depositional facies, pore water chemistry, burial-thermal and tectonic evolution of the basin, and paleo-climatic conditions. [...]

In this Special Issue, we encourage submissions focusing on understanding the interplay between mineralogical and chemical changes in carbonates and clastic sediments and diagenetic processes, fluid flow, tectonics, mineral reactions at variable scales, and environments from a variety of sedimentary basins. Quantitative analyses of diagenetic reactions in these sediments using a variety of techniques are essential to understand the pathways of these reactions in different diagenetic environments.

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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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