

Special Issue

Structure and Crystallochemistry of Clay Minerals

Message from the Guest Editors

Identifying the best applications of clay minerals requires a thorough knowledge of their structure and crystallochemical properties. Clay minerals' structure consists of aluminosilicate layers (or sheets) in which the fundamental building blocks are composed of tetrahedral and octahedral units. These materials present an enormous structural versatility and capacity to evolve due to interlayer cations, stacking of the layers' isomorphic substitutions, polymorphous transformations by octahedral cation migration, and other features. These properties influence their behavior in various natural or technical processes. This Special Issue will focus on the accurate determination of the structural and crystallochemical characteristics of clay minerals, with the aim of better understanding and predict their properties.

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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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