



## Layered Minerals and Materials: Crystal Structures, Properties and Applications

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### Message from the Guest Editor

Layered minerals and inorganic materials include compounds structurally based on two-dimensional tetrahedral or heteropolyhedral complexes. Nowadays, layered minerals and related synthetic compounds are extensively investigated in very different fields, from mineralogy, geochemistry, and biogeochemistry to solid-state physics, inorganic chemistry, and materials science. The most well-known class of layered compounds with a wide range of applications is represented by clay minerals, which include a number of different groups: kaolinite–serpentine, talc and pyrophyllite, smectite, chlorite, etc. In addition to clay minerals, such layered materials as layered double hydroxides (LDH), hybrid organo-inorganic compounds, titanosilicates, etc. are obtained using a wide variety of synthesis methods in the chemical industry.

This Special Issue welcomes contributions on layered minerals and materials, layered crystal structures, and on applications of clay minerals and layered double hydroxides, composite materials.





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## Editor-in-Chief

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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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