



## Composites Based on Layered Silicate Minerals: Preparation, Characterization and Applications

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Deadline for manuscript  
submissions:

**closed (18 August 2023)**

### Message from the Guest Editors

Dear Colleagues,

Layered silicates are natural materials that can be synthesized in a laboratory via hydrothermal synthesis. Compared to clay, these materials may have a higher ion exchange capacity and better chemical stability. The framework for these materials, predominantly comprising  $\text{SiO}_4$  tetrahedra, offer interesting properties through modifications of the  $\text{SiOH}/\text{SiO}$  interlayer groups.

The aim of this Special Issue is to bring together current articles concerning the extraction, characterization, identification of properties and the application of layered silicates as well as covering organic and inorganic modification; composite-layered silicate polymers; nanocomposite-layered silicate polymers; film and hydrogel composite-layered silicate polymers; their environmental applications for eliminating toxic substances (e.g., heavy metals, organic pollutants, and atmospheric and pathogenic bacteria); and their application in the pharmaceutical industry as active ingredients and/or to slow, extend or vectorize drug release.





## 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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