Special Issue

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

Message from the Guest Editors

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 SiO4 tetrahedra, offer interesting properties through modifications of the SiOH/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.

Guest Editors

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Deadline for manuscript submissions

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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