Special Issue

Clays in Soil Science and Soil Chemistry

Message from the Guest Editors

Clays and clay minerals belong to a rich family of hydrous aluminum phyllosilicates, formed in nature by the weathering transformation of primary silicate minerals. They are variable in chemical composition, and their properties highly dependent on their origin material and location. Clays are not only found naturally but can also be prepared synthetically. Due to their unique structures and properties, they have many applications. Their high abundance worldwide makes them an essential component of soils, where they play an important role in numerous soil processes. This makes clays of particular interest in fields such as soil science and soil chemistry. This Special Issue will study the impacts of clays and clay minerals in soils by considering the behavior and interactions of clays with components of organic and inorganic nature. This Special Issue welcomes different perspectives from computer simulations methods such as quantum chemical, classical molecular dynamics, Monte Carlo and Machine Learning models, as well as experimental approaches, such as microcalorimetry, nano-SIMS, AFM, and XANES measurements, and a combination of both approaches.

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Deadline for manuscript submissions

24 February 2026

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/225590

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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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