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Kaolinite, Saponite and Other Layered Natural and Synthetic Clay Minerals

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Message from the Guest Editor

The clay minerals deposits around the world are extremely large. Among the various types of clays, kaolin is highlighted as the largest mined clay. However, the industrial applications of this type of clay are limited to traditional applications in ceramics, tiles and paper coating. But kaolinite presents many other interesting possibilities, as it is the goal to demonstrate it in this special issue, has a great potential for use in non-traditional, high value-added applications. [...] The specific characteristics of each clay are directly related to their composition and physical-chemical properties, which promotes their uses in many non-traditional applications such as adsorbents, sensors, drug delivery systems, catalysts, and others.

This Special Issue welcomes contributions with modified natural and synthetic clay minerals and also their applications in the different non-conventional fields such as adsorbents, catalysts and photocatalysts, sensors, hybrid, and biohybrid materials, bionanocomposites, polymer -clay composites and nanocomposites and drug delivery systems.

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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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