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Synthetic Clay-Based Materials and Layered Double Hydroxides

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Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Minerals,* entitled 'Synthetic Clay-Based Materials and Layered Double Hydroxides', comprises a selection of recent studies on synthetic clay minerals and clay-based materials. Via the development and application of clay-based materials, which range from conventional materials to current functional nanocomposites, technological advances based on clay minerals are of great benefit to human society. In these circumstances, the creation of complex clay-based materials and compounds that are similar to clay minerals remains necessary. Contributions to this Special Issue reveal that scientists involved in the development of clay consistently focus their research on synthetic clay minerals, clay-based materials, and analogs such as layered double hydroxides (LDHs), due to the existence of 2D stable materials with larger surface areas. These substances are becoming progressively more active in catalysis, biology, the natural environment, and nanotechnology.

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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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