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Soil Minerals

Guest Editor:

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Deadline for manuscript submissions:
closed (20 June 2020)

Message from the Guest Editor

The most reactive part of a soil, referred as clay fraction, contains smaller than 2 micrometers particles of various mineral phases, organic compounds and organomineral associations. Clay components are responsible for soil sorption, electric charge, catalytic, structural or acid-base properties, thus governing soil bio-geochemical cycles, fertility and functionality. Physicochemical properties of clay fraction are also important for environmental, geotechnical or industrial applications.

This Special Issue will be mainly devoted to mineral and organomineral soil clay components; however, mineralogical aspects of coarser mineral soil components will be considered also. Research papers reporting surface and structural characterization of soil minerals and mineral-involved mechanisms of soil processes using both experimental and theoretical approaches, as well as reviews covering different aspects of soil minerals behaviour and properties are welcome.

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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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Journal Rank: JCR - Q2 (*Mineralogy*) / CiteScore - Q2 (*Geology*)

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