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Soil Mineralogy, Genesis and Chemical Composition

Guest Editor:

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Deadline for manuscript submissions:
closed (21 May 2021)

Message from the Guest Editor

Dear Colleagues,

Minerals comprise ca. 95% of the mass of most soils of the world. Typically, soils are a mixture of primary minerals comprising the coarse particle-size fractions, whereas secondary layer silicates and oxides/hydroxides of Fe and Al form the bulk of soil clays. In addition, carbonates, sulfates, and many other mineral families can be present, and the close interaction of contrasting mineral suites and particle sizes is what makes soils the unique media so favorable for plant growth. Or, perhaps not. [...] For this Special Issue of *Minerals*, we welcome papers demonstrating how soil mineralogy and chemical composition are the result of soil genesis, and how these can affect soil properties and functioning. Submitted papers must ideally present novel data on soil mineralogy and chemical composition using X-ray or other advanced techniques. We especially invite papers investigating soils with unusual composition, developed from unique parent materials, or representative of poorly studied areas of the globe.

Dr. Yuri Lopes Zinn
Guest Editor

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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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