



## Engineering Geology of Clay and Clay Soils

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Deadline for manuscript  
submissions:

**closed (20 October 2021)**

### **Message from the Guest Editor**

Clay and clay soils are some of the most important geological materials, and they have a great influence on the engineering geology properties of soils. The main engineering geological problems associated with clay-bearing soils are their low strength, high compressibility, high level of volumetric changes, low permeability, settlement, and extreme affinity to water. On the other hand, clay is desirable in many cases due to its properties, which may be used to benefit a geotechnical engineer's design. The study of the mechanical and hydraulic properties of compacted clays and their long-term stability under a range of temperatures in engineered barriers (high-level radioactive waste) has also been an important area of engineering geological experimental research work during the last few decades.

The type of clay mineral, mineralogical and chemical composition, and fundamental properties are very important factors controlling the physical and geotechnical behavior of clay soils.

- Engineering geology
- Clay minerals
- Clay soils
- Microfabric





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## Message from the Editor-in-Chief

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