



## Role of Clay Mineralogy in Geotechnical Engineering Behavior of Clay Soils

Guest Editors:

**Prof. Dr. Hossam Abuel-Naga**

Engineering Department, School  
of Computing, Engineering and  
Mathematical Sciences, La Trobe  
University, Melbourne 3086,  
Australia

**Dr. Anasua GuhaRay**

Department of Civil Engineering,  
BITS Pilani Hyderabad Campus,  
Jawahar Nagar, Kapra Mandal,  
Medchal District, Hyderabad  
500078, India

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### Message from the Guest Editors

Dear Colleagues,

Clay mineralogy plays a pivotal role in determining the geotechnical engineering properties of clay soils. The unique characteristics of clay minerals, including their type, composition, and arrangement, significantly impact the clay's microstructure, electrochemical activity, and interactions with water. These factors collectively influence the engineering behavior and stability of clay in a wide range of applications, such as foundation engineering, slope stability, landfill liners, and embankment and road construction. Understanding the mineralogical composition of clay is essential for predicting and mitigating potential issues related to shrink–swell behavior, shear strength, and permeability, thereby ensuring the reliability and safety of geotechnical structures.

This Special Issue invites submissions that present original scientific research on the effect of clay mineralogy on the engineering behavior of clayey soils. Researchers and practitioners are encouraged to submit papers that enhance our understanding of these areas, thereby contributing to the development of more reliable and effective geotechnical engineering practices.





## Editor-in-Chief

### **Prof. Dr. Leonid Dubrovinsky**

Bayerisches Geoinstitut,  
University Bayreuth, D-95440  
Bayreuth, Germany

## 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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*Minerals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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