Special Issue

Alkali Activation of Clay-Based Materials

Message from the Guest Editors

For the construction industry, Alkali-activated materials (AAMs) represent a sustainable and resource-efficient alternative to conventional cement-based materials. Just as AAMs can be used to safely store different hazardous substances, so can clay, which is an abundant material that represents waste for different types of mining industries. AAMs can be synthesized using various types of clay but have to be optimized regarding the performance of these materials in terms of strength, durability, sustainability and their impact on the environment.

Alkali activation is also a useful approach for improving the geomechanical properties of clay-rich materials in geotechnical embankments. Moreover, alkali activators can improve the mechanical properties of rammed earth construction.

Authors are invited to contribute original research articles as well as review articles focused on the synthesis and characterization of alkali-activated clays, used as a sole precursor or as an additive, calcined or raw, aiming for sustainability in the building industry sector. Papers dealing with investigating the environmental impact of such AAMs focusing on soil contamination are particularly welcome.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2025)

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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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