Special Issue

Development in Alkali-Activated Materials and Applications

Message from the Guest Editors

The growing demand for concrete with high efficiency, low cost, and low environmental impact has promoted the development of clinker-free cementitious materials, including alkali-activated cement. Alkali-activated materials are derived from a variety of naturally occurring minerals, such as fly ash, blast furnace slag, natural pozzolans, and other silicate-rich mineral sources. These minerals play a crucial role in the chemical activation process, which reduces the carbon footprint in the building industry. The study of alkali-activated materials (AAMs) is growing rapidly in the global research community, and their use has the potential to significantly reduce environmental impacts.

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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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