



Alkali-Activated Cements and Concretes

Guest Editor:

Prof. Dr. Elsabe Kearsley

Department Civil Engineering,
University of Pretoria, Lynnwood
Road, Pretoria 0002, South Africa

Deadline for manuscript
submissions:

closed (22 April 2022)

Message from the Guest Editor

Dear Colleagues,

Concrete consisting of sand, stone, water and Portland cement is the most widely used material in the construction of modern infrastructure. Significant strides have been made in the recent past to reduce the impact of cement production by allowing for the inclusion of large volumes of cement extenders such as ground granulated blast furnace slag and fly ash. Many of the problems associated with the use of the limestone-based clinker as the primary component of the cement still need to be addressed.

The aim of this Special Issue on alkali activated cement and concrete is to share the current state of knowledge on reducing the environmental impact of the cement and concrete industry through the use of alkali activation. Articles will focus on aspects including activator types and dosages, waste materials that can be activated, factors affecting the properties of alkali-activated materials, benefits and consequences of using alkali-activated cement and concrete, durability (including acid and thermal resistance), comparing short and long term material properties and environmental impact to that of other building materials currently in use.





an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), GEOBASE, GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank: JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Contact Us

Minerals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/minerals
minerals@mdpi.com
[X@Minerals_MDPI/](https://twitter.com/Minerals_MDPI/)