Special Issue

Alkali-Activated Cements and Concretes

Message from the Guest Editor

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 clicker 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.

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)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/83618

Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

mdpi.com/journal/minerals

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/journal/minerals

About the Journal

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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

Author Benefits

High Visibility:

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

Journal Rank:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

MDPI