



65 Years of Alkali Activated Cements and Materials: Achievements and Challenges

Guest Editors:

Dr. Oleksandr Kovalchuk

Glukhovskii Scientific Research Institute for Binders and Materials, Kyiv National University of Construction and Architecture, Povitroflotskyi Avenue 31, 03037 Kyiv, Ukraine

Dr. Zvezdana Baščarević

Materials Science Department, Institute for Multidisciplinary Research, University of Belgrade, 11 000 Belgrade, Serbia

Deadline for manuscript submissions:

closed (15 July 2023)

Message from the Guest Editors

Dear Colleagues,

Alkali-activated cements and concretes on their basis have become one of the most investigating materials in the chemical engineering scope. This year (2022), we are celebrating 65 years of alkali-activated materials' active development and application. There are a lot of names used to describe alkali activated materials: soil silicates, geocements, geopolymers, alkaline cements, alkali-activated cements, etc., but only one real result—alkali-activated materials must be the cements of the new era, cements of the sustainable development. The long period of development of these materials has helped to solve a lot of the problems associated with them and give answers to a lot of questions, but at the same time, new problems and questions have emerged.

This Special Issue aims to collect, in a single volume, scientific papers covering recent achievements in developing alkali-activated materials and to discuss the challenges in the field of alkali-activated materials' mix design and wide application.

Guest Editors





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), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Geochemistry and Geophysics*) / CiteScore - Q2 (*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/)