



Research on Alkali-Activated Materials

Guest Editors:

Dr. Hui Liu

Department of Civil Engineering,
Changzhou University,
Changzhou 213164, China

Prof. Dr. Feng Rao

School of Zijin Mining, Fuzhou
University, Fuzhou 350108, China

Deadline for manuscript
submissions:

10 August 2024

Message from the Guest Editors

Dear Colleagues,

Alkali-activated materials are a kind of cementitious material generated by the reaction of solid silicate wastes (such as slag, fly ash, kaolinite, etc.) with pozzolanic activity or potential hydraulic properties and alkaline activators, including four types: alkali-aluminosilicate vitreous, alkali-fired clay, alkali-ore tailings and alkali-calcium carbonate. It has the advantages of simple preparation, low cost, easy access to raw materials, low energy consumption, green environmental protection, high strength, good durability etc., and is considered as an ideal substitute for Portland cement materials. As a low-carbon material, it has become the focus and hot spot of research in major countries across the world. However, due to the complex source of raw materials, high content of alkali activator, lack of applicable additives, etc., the alkali-activated materials still are limited to use in practical engineering.

This Special Issue aims to highlight the original findings regarding the alkali-activated materials, and the potential perspectives for future investigations are also encouraged.

Dr. Hui Liu
Prof. Dr. Feng Rao
Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)