Special Issue

Transport and Mechanical Behavior of Alkali-Activated and Cementitious Materials

Message from the Guest Editor

In order to reduce CO2 emissions to develop a sustainable society, further improvement in mechanical properties and durability of construction materials is desired. In particular, it is necessary to understand alkali-activated and cementitious materials, which are most widely used as construction material. Understanding these materials from the nano-level to the macro-level is the key to improving transport and mechanical properties. This Special Issue aims to highlight and share recent findings in developing alkali-activated and cementitious materials. This Special Issue calls for papers on, but not limited to, the following areas:

- Transport properties of alkali-activated and cementitious materials;
- Mechanical behavior of alkali-activated and cementitious materials;
- Characterization of alkali-activated and cementitious materials;
- Evaluation of environmental impact of alkali-activated and cementitious materials;
- Modeling of alkali-activated and cementitious materials.

Guest Editor

Prof. Dr. Kiyofumi Kurumisawa

Faculty of Engineering, Hokkaido University, Kita 13, Nishi 8, Kita-ku, Sapporo, Hokkaido, Japan

Deadline for manuscript submissions

closed (31 December 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/59460

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

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.

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

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 and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)