Special Issue

Advances in the Mechanical Properties of Cements, Mortars and Concretes

Message from the Guest Editor

There has been an increasing interest in Alkali-Activated Slag Cements (AASC) all over the world due to their advantages such as lower energy cost, lower carbon footprint, higher strength, lower hydration heat, and better durability properties as compared to ordinary Portland cements. Advances in the mechanical properties of AASC mortars and concretes are of utmost importance for expanding their use in the construction practice. The mechanical properties of AASC vary in a broad range depending on the activator and slag properties. Therefore, the topics of interest include but are not limited to the following:

- Bond strength between AASC concrete and reinforcing steel or substrate concrete;
- Mechanical response under impact and cyclic loading;
- Microstructure-mechanical properties interrelations;

The aim of this Special Issue is to showcase the latest research and advances in this area, particularly on the mechanical properties of alkali-activated slag cements. Original research papers, state-of-the-art reviews, communications, and discussions are welcomed. Dr. Aydin Serdar

Guest Editor

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Deadline for manuscript submissions

closed (20 June 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/77057

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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.

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