Special Issue

Durability Studies on the Concrete and Related Composites

Message from the Guest Editor

In recent years, the cement and concrete industry has increasingly paid attention to the search for new material solutions that will contribute to greater durability of this material. It is important to take a complete look at the production of cement-based materials, taking into account the correlation between chemical composition, microstructure and external environmental factors, that will ensure high material durability and performance and will result in a lower environmental impact, thus contributing to more sustainable construction.

Therefore, topics of interest include but are not limited to the following:

- Materials design and characterization for enhanced durability;
- Concrete and cementitious composites including advanced nanomaterials;
- Durability of concrete and cement-based materials (e.g., chloride attack, carbonation, sulfate attack, acid attack, alkali-silica reaction, freeze/thaw, abrasion, etc.);
- Possibility of reusing old and recovery building materials or by-products in concrete in the aspect of durability and sustainable development;
- Durability and sustainability assessment.

Guest Editor

Prof. Dr. Agnieszka Ślosarczyk

Poznan University of Technology, Faculty of Civil and Transport Engineering, Instutute of Building Engineering, 60-965 Poznań, Poland

Deadline for manuscript submissions

closed (20 October 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/100901

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)