Special Issue

Effect of Additives/Admixtures on the Properties of Concretes and Cementitious Composites

Message from the Guest Editors

In today's cement and concrete industry, chemical admixtures have become one of the essential components of cement-based materials. There is a wide range of chemical admixtures in cement concrete. However, regardless of the admixture added to achieve a particular effect, the addition of admixture will affect the cement hydration process. With the high performance of cement and concrete and the wide application of various chemical admixtures and mineral admixtures, the systematic study of the effect of various admixtures on cement hydration is of great theoretical and engineering significance in terms of understanding the interaction between different chemical admixtures and cement and regulating the hydration process of cement. This Special Issue will bring together the latest developments in the field of concrete admixtures. Articles in this Special Issue will cover a variety of topics including, but not limited to, the preparation of new concrete admixtures, alkali-activated material admixtures, and high-performance composite admixtures.

Guest Editors

Dr. Mengjun Chen

State Key Laboratory for Tunnel Engineering, School of Future Technology, Shandong University, No. 12550, East Second Ring Road, Jinan 250002, China

Dr. Jiwen Bai

State Key Laboratory for Tunnel Engineering, School of Civil Engineering, Shandong University, No. 17923, Jingshi Road, Jinan 250061, China

Deadline for manuscript submissions

closed (20 March 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/173213

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

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)

MDPI