Special Issue

Sustainability and Performance of Cement-Based Materials

Message from the Guest Editors

Reducing CO2 emissions is crucial in minimising the building and construction industry's environmental impact, and many countries have committed to reaching carbon neutrality before or by 2050. To achieve this goal, the construction industry needs to move towards sustainability to reduce CO2 emissions from concrete production. This can be accomplished by introducing innovative low-carbon materials, advanced cement-based composites, carbon utilisation in concrete produc-tion, and innovative construction techniques, such as 3D concrete printing and prefabrication. These advancements are necessary for promoting circularity and developing sustainable and durable structures and infrastructure. For this Special Issue, we invite researchers, academics, and industry experts to share their inno-vative findings on advancements in low-carbon concrete structures and infrastructure to achieve a zero-carbon construction industry. We welcome original research articles and reviews considering a multidisciplinary approach and promoting sustainability.

Guest Editors

Dr. Md Jihad Miah

School of Architecture, Technology and Engineering, University of Brighton, Brighton BN2 4GJ, UK

Prof. Dr. Noor Md. Sadiqul Hasan

Department of Civil Engineering, International University of Business Agriculture and Technology, Dhaka 1230, Bangladesh

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

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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.

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

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