Special Issue

Concrete Characteristics and Experimental Research in Civil Engineering on Low-Carbon Concrete

Message from the Guest Editors

The global production of concrete persists at the highest level in decades. The production of cement and concrete is known for its high energy consumption and high emissions, which contributes to approximately 8% of global CO2 emissions. Furthermore, the natural resources used in concrete manufacturing are becoming scarce. Therefore, the development of sustainable and low-carbon concrete is essential and has become one of the main topics for both researchers and industry. Advanced technology capable of producing clinker-free cementitious materials, such as alkali-activated materials, as well as the incorporation of high-volume industrial wastes and building demolition, e.g., recycled sands and aggregates into concrete have been attracting more and more attention recently. This Special Issue seeks high-quality works focusing on new approaches and technologies of low-carbon concrete production, new techniques for concrete characterization, the use of potential industrial or construction solid wastes in concrete, experimental research on the structure and engineering properties of concrete, advanced strategies in the recycle, and reuse of construction waste, etc.

Guest Editors

Prof. Dr. Jiyang Fu

Research Center for Wind Engineering and Engineering Vibration, Guangzhou University, Guangzhou 510006, China

Dr. Yuwei Ma

Research Center for Wind Engineering and Engineering Vibration, Guangzhou University, Guangzhou 510006, China

Deadline for manuscript submissions

closed (1 April 2024)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/153754

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

mdpi.com/journal/sustainability

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/journal/sustainability

About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, 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 and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)