Special Issue

Low CO₂ Concrete

Message from the Guest Editor

Concrete is being widely used in various types of infrastructures. CO2 emission happens during the life cycle stages of concrete, and the emission of CO2 becomes an urgent problem to be solved in the concrete industry. Governments, industry, and the research community are very concerned about material design, structural design, and construction methods of low CO2 concrete. This Special Issue will provide a broad communication platform for low CO2 concrete and highlight realistic and feasible directions for government decision-making and industrial production of low CO2 concrete. The Special Issue will introduce the latest progress in low CO2 concrete and contribute to the development of low CO2 society. The topics of this Special Issue include but are not limited to the following: material design of low CO2 concrete; hydration performance; mechanical properties and durability of low CO2 concrete; workability and construction methods of low CO2 concrete; structural design considering CO2 emissions; the application of multi-scale methods in low CO2 concrete and CO2 uptake of hardened concrete due to the carbonation and carbonation curing of fresh concrete.

Guest Editor

Prof. Dr. Xiaoyong Wang

Department of Architectural Engineering, Kangwon National University, Chuncheon-si 24341, Republic of Korea

Deadline for manuscript submissions

closed (31 May 2021)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/54530

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



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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

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)

