

Special Issue

Green and Low-Carbon Concrete Technology and Construction

Message from the Guest Editor

In this Special Issue, current research into materials, building types, operating strategies and cost requirements relevant to green low-carbon durable maintenance-free concrete technology and construction will be the primary focus of attention. However, the niche features of this research field have led to considerable scattering of literary sources and a lack of information exchange between researchers in the relevant subfields. Moreover, the latest research achievements have not been summarized and innovated. This Special Issue aims to overcome these problems, as it provides an opportunity to create a collection of studies of green low-carbon durable maintenance-free concrete technology and construction. We invite authors to submit written contributions to this Special Issue, which can include, but are not limited to, the following subjects:

- green low-carbon cement and building materials;
- low-carbon design and preparation of buildings;
- cementitious capillary crystalline waterproofing materials;
- concrete structures;
- carbon peaking and carbon neutrality;
- durability of concrete structures;
- architecture and the environment.

Guest Editor

Dr. Peng Liu

School of Civil Engineering, Central South University, Changsha 410075, China

Deadline for manuscript submissions

3 July 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/180065

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

mdpi.com/journal/appls





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)