

Special Issue

Sustainable Concrete Materials and Resilient Structures

Message from the Guest Editor

The climate emergency is the utmost threat to our planet. Concrete materials and structures play a critical role in making societies resilient, stronger and safer. Among existing construction materials for building, civil engineering and other infrastructures, concrete is by far the most disaster-resilient and can be incorporated in various key aspects to make structures more resilient in support of UN's sustainable development objectives. This Special Issue focuses on sustainable and low carbon-based concrete materials, and resilience-based design and construction for civil infrastructure systems. It aims to cover the following scope/topics of interest:

- **Constituent Materials**
- **Concrete Properties and Testing**
- **Processing**
- **Concrete Structural Analysis and Design**
- **Structural Health Monitoring**

Guest Editor

Dr. Jiping Bai

Faculty of Computing, Engineering and Science, University of South Wales, Treforest Campus, Pontypridd CF37 1DL, UK

Deadline for manuscript submissions

closed (20 July 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/130276

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

mdpi.com/journal/

[appls](https://appls.mdpi.com)





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)