

Special Issue

Low-Carbon and Eco-Friendly Construction Materials: Solutions for Sustainable Building and Resource Efficiency

Message from the Guest Editors

The construction industry is facing increasing pressure to innovate and adopt advanced technologies and low-carbon materials to significantly reduce its energy consumption, mitigate environmental impacts such as resource depletion, greenhouse gas emissions, and climate change, and promote a more sustainable and circular approach to building practices. Furthermore, another important issue to address is the end-of-life and recyclability of materials. This Special Issue welcomes the submission of original research articles and reviews whose scope includes, but is not limited to, the following topics: The development and characterization of earth materials, low-carbon concrete and bio-based composites; their durability (mold growth, fire resistance, water resistance, aging) and applications in the building sector; fiber treatment; and the physical, chemical, and morphological properties of materials. We also welcome the submission of studies that address the environmental impact of these materials and analyze their life cycle, recyclability, and end-of-life. We look forward to receiving your contributions.

Guest Editors

Dr. Chadi Maalouf
Dr. Guillaume Polidori
Dr. Christophe Bliard

Deadline for manuscript submissions

28 February 2027



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/233147

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

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





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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