

Special Issue

Innovative Building Solutions for Decarbonized and Sustainable Construction

Message from the Guest Editors

Climate change poses urgent challenges, with the building sector accounting for nearly a third of global energy consumption and a quarter of greenhouse gas emissions. This Special Issue focuses on innovative solutions to advance decarbonized and sustainable construction practices. By exploring cutting-edge materials, advanced construction technologies, and energy-efficient design strategies, we aim to reduce embodied and operational carbon emissions. These contributions align with the goals of the Energy Performance of Buildings Directive (EPBD) recast, offering actionable insights for researchers, policymakers, and industry leaders. Topics of interest:

- Low-carbon materials and technologies for sustainable construction;
- Renewable energy integration in buildings;
- Circular economy approaches, including material reuse and waste reduction;
- Digital tools for optimizing energy performance and emissions reduction.

We invite you to contribute to this transformative field.

Guest Editors

Dr. António Figueiredo

Department of Civil Engineering, CERIS, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

Prof. Dr. Katia Regina Garcia Punhagui

Latin American Institute of Technology, Infrastructure and Territory, Federal University of Latin American Integration (UNILA), Av. Tarquinio Joslin dos Santos, Foz do Iguaçu 85870-650, PR, Brazil

Deadline for manuscript submissions

24 July 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 8.9



mdpi.com/si/226946

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 8.9



[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)