

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

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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

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