

## Special Issue

# Low-Carbon Materials for Sustainable and Healthy Buildings: Enhancing Indoor Comfort, Well-Being, and Energy Efficiency with Non-Conventional Constructive Solutions

### Message from the Guest Editors

Human activity is driving significant changes in our global climate, making it one of the defining challenges of this century. The construction sector contributes 40% of global greenhouse gas (GHG) emissions, making urgent action essential.

This Special Issue invites contributions from current research and advancements in these areas, focusing on innovative materials that enhance indoor comfort and health while minimising GHG emissions in new construction and renovation projects. Studies addressing the challenges of retrofitting historic and traditional buildings are particularly welcome, given the importance and complexity of this issue. The studies collected in this Special Issue will help to enhance our existing understanding of innovative low-carbon material solutions and promote more comfortable and healthier indoor environments.

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### Guest Editors

Dr. Magda Posani

Dr. Vincenzo Maria Gentile

Dr. Joana Maia

Dr. Tuomas Alapieti

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### Deadline for manuscript submissions

31 August 2026



## Sustainability

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## Editor-in-Chief

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