Special Issue

Redefining the Built Future: Next-Gen Materials and Resilient Construction for a Low-Impact World

Message from the Guest Editor

In this Special Issue, we invite original research, case studies, reviews, and visionary perspectives that explore how emerging materials and innovative construction strategies can reshape the future of sustainable and climate-resilient architecture. The built environment must respond not only to environmental pressures, but also to growing demands for circularity, adaptability, and long-term performance. We aim to go beyond conventional green building approaches by highlighting transformative solutions—ranging from bio-based and carbon-negative materials to design-for-disassembly, digital fabrication, and regenerative design practices. This Special Issue seeks to bridge material science, engineering, and architecture to foster integrated approaches that reduce embodied carbon, enhance resilience, and accelerate the transition toward post-carbon construction. While the existing literature often focuses on isolated sustainability metrics, our goal is to collect forward-thinking work that redefines how materials and construction systems contribute to holistic, scalable, and context-responsive solutions for a more sustainable built future.

Guest Editor

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Deadline for manuscript submissions

1 June 2026

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/250149

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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. *Sustainability* publishes original research articles, review 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

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