

Special Issue

Recent Advances in Sustainable Construction Materials and Structural Systems

Message from the Guest Editors

The construction industry is undergoing a transformative shift toward sustainability, driven by the urgent need to reduce carbon emissions and mitigate environmental impacts. This Special Issue focuses on the latest developments in sustainable construction materials and structural systems, emphasizing the use of low-carbon, recycled, and waste-derived materials. We invite contributions that explore material properties, mechanical performance, microstructural characterization, and durability assessment. Studies encompassing experimental investigations, theoretical modeling, and numerical simulations are particularly welcome. Topics of interest include, but are not limited to, the mechanical behavior of eco-friendly concrete, lightweight and high-performance composite materials, novel reinforcement techniques, and integrating waste materials into construction applications. By bringing together cutting-edge research, this Special Issue will foster innovation and provide insights into the next generation of sustainable construction solutions.

Guest Editors

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Dr. Weiwei Wu

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Dr. Longbiao Yan

Deadline for manuscript submissions

closed (15 May 2026)



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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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