

Special Issue

Sustainable Architecture, Structural Design, and Environmental Engineering

Message from the Guest Editors

This Special Issue focuses on sustainable solutions in architecture, structural design, and environmental engineering, with a strong emphasis on bio-based materials and innovative construction methods. Key topics include the structural behavior and mechanical properties of timber and engineered wood, the development of short supply chain hardwood solutions, and the durability and reliability of bio-based materials in construction. Contributions on circular economy strategies, the lifecycle assessments of sustainable building materials, and digital advancements, such as parametric design, performance-based engineering, and building information modeling (BIM), are particularly encouraged. This Issue aims to bridge the gap between material science, structural engineering, and architectural design, addressing challenges such as fire resistance, mechanical optimization, and large-span timber structures. By supplementing the existing literature, it will provide a technical foundation for advancing sustainable construction methods, ensuring resilience, efficiency, and compliance with environmental standards.

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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