

Special Issue

Design and Sustainability of Buildings and Civil Engineering Structures

Message from the Guest Editors

The sustainable design and performance of buildings and civil engineering structures are critical to addressing the global challenges of climate change, resource depletion, and urbanization. As the built environment significantly contributes to greenhouse gas emissions, material consumption, and energy demand, innovative strategies in structural design, construction, and lifecycle management are essential to achieving environmental, economic, and social sustainability. Scientific research and innovation in this field play a pivotal role in transforming how infrastructure is conceived, built, and operated to meet environmental, economic, and social sustainability goals. Recent advances in materials science, computational modeling, digital construction technologies, and performance-based design frameworks are enabling the development of structures that are efficient and durable and aligned with principles of circularity, resilience, and low-carbon performance. Moreover, integrating LCA, embodied energy analysis and climate adaptation strategies into the design process fosters a more holistic understanding of sustainability in the built environment.

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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.

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