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Sustainable Building Technology and High-Performance Building Engineering

Guest Editor:

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Deadline for manuscript submissions:
10 October 2025

Message from the Guest Editor

This Special Issue aims to explore the latest research and practices in sustainable building materials, energy-efficient building technologies, advanced building design concepts, and green building rating standards. Specifically, we encourage submissions that address the following topics: Sustainable building materials: How to use environmentally friendly and recyclable materials for low-carbon buildings. Building energy-saving technologies: How to reduce building carbon emissions and energy consumption through energy-saving technologies and intelligent controls. High-performance building design: How to use advanced building design concepts and technologies to achieve high-performance building design and construction. Green building rating standards: How to establish scientific and comprehensive green building rating standards to promote green and sustainable building development.

For scholars interested to submit papers to the Special Issue, please click "Submit to Special Issue" or contact Astoria Yao: astoria.yao@mdpi.com.

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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