

Special Issue

Sustainable and Low-Carbon Building Technology: Education, Design, and Practice

Message from the Guest Editors

We are pleased to inform you that we have launched a new Special Issue of *Buildings* entitled "Sustainable and Low-Carbon Building." Sustainable technology development is of great significance for the maintenance of the Earth's ecological environment. In order to ensure the low-carbon operation of buildings, engineers attempt to make progress in various aspects of their field, such as education, design and practice. By educating designers and builders, the waste of resources caused by human errors and omissions will be minimized. Through the optimization of building design and practice (e.g., BIM technology), resources can be utilized fully. This Special Issue will publish high-quality, original research papers in the overlapping fields of:

- Carbon emission management of infrastructure in the whole process;
- Construction technology and the management of prefabricated buildings;
- BIM technology and practice;
- Sustainable design technology for buildings;
- Repair and protection of traditional and ancient buildings;
- Educational innovation in sustainable building design;
- Education of low-carbon technicians.

Guest Editors

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Deadline for manuscript submissions

closed (28 May 2024)



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About the Journal

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.

Editor-in-Chief

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indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

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CiteScore - Q1 (Architecture)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).