Special Issue

Built Environment, Energy and Health

Message from the Guest Editors

This Special Issue will focus on the relationship between the built environment, energy and human health. It will further discuss the interaction between building energy efficiency, clean energy utilization and environmental quality in the built environment. Topics will include, but are not limited to:

- Energy demands, consumption and balances in the built environment;
- Application of renewable energy sources in the built environment;
- Healthy indoor environmental evaluation (including acoustic, visual, thermal and air quality) and control;
- Energy efficiency improvement measures of HVAC&R and other technical systems;
- Modeling and prediction technologies for the built environment;
- Links between building environmental quality, energy conservation and health.

Guest Editors

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Dr. Yu Chen

Prof. Dr. Yin Liu

Dr. Jie Liu

Dr. Manfeng Li

Deadline for manuscript submissions

closed (31 December 2023)

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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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JCR - Q2 (Construction and Building Technology) / CiteScore - Q1 (Architecture)

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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).