

Special Issue

Development of Indoor Environment Comfort

Message from the Guest Editors

Indoor air quality and thermal comfort significantly affect the wellbeing of indoor occupants; however, creating healthy and comfortable indoor environments consumes a large proportion of building energy. New developments in indoor comfort and health are emerging, such as the following: non-uniform thermal environments, personalized thermal comfort, thermal adaptations, interactions of thermal comfort with other comfort domains, AI-powered thermal comfort models, intelligent algorithm-based control methods, advanced air distribution, graded ventilation, interactive cascaded ventilation, vortex ring ventilation, intermittent demand-controlled ventilation, and airborne infection risk control. These advanced developments not only contribute to occupants' satisfaction and health but also save energy, a prospect that is of particular interest in this Special Issue. Relevant topics covered by this Special Issue include, but are not limited to, the following subjects:

- Thermal comfort;
- Indoor air quality;
- Airborne infection risk control;
- Advanced air distribution;
- Building ventilation;
- Radiant cooling;
- Radiant heating.

Guest Editors

Dr. Sheng Zhang

Dr. Zhaosong Fang

Dr. Xiwen Feng

Deadline for manuscript submissions

30 November 2025



Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.4



mdpi.com/si/220838

Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

[mdpi.com/journal/
buildings](https://mdpi.com/journal/buildings)





Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.4



[mdpi.com/journal/
buildings](https://mdpi.com/journal/buildings)



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

Prof. Dr. David Arditi

Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Construction and Building Technology) /
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).