Special Issue

Indoor Environment Quality: Smart Technology in Thermal Comfort, Ventilation, Humidity, Hygiene, Lighting, Acoustics and Water Supply

Message from the Guest Editors

Human beings have spent most of their time in the indoor environment since industrialization. The pandemic has strengthened and intensified this situation over recent years. This Special Issue invites authors to submit updated research related to indoor environment quality. Potential topics include, but are not limited to:

- Indoor environment quality and its enhancement
- Ventilation and pollutant dispersion inside the buildings
- Effect of indoor temperature and humidity on comfort of human beings
- Indoor lighting and its effectiveness
- Interior design and its acoustic effect
- Smart technology in building environment
- Urban heat island and building services engineering
- Passive solar building design
- Indoor energy consumption and its effect
- Climate changes and its effect on indoor environment

Guest Editors

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Deadline for manuscript submissions

closed (30 May 2025)



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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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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).