Special Issue

Advances in Indoor Environmental Quality (IEQ)

Message from the Guest Editors

Healthy and comfortable built environments are an emerging field of research focusing on topics related to indoor environmental quality control and sustainability. The importance of providing healthy indoor air has recently been exacerbated by the spread of COVID-19 and its consequences. Thus, research on design guidelines, modeling, and advanced simulation methods for improving indoor environmental quality is urgently required.

Topics covered in this Special Issue include but are not limited to building physics, indoor air quality, thermal comfort, ventilation, HVAC systems and pollutant dispersion in a built environment. Research papers, analytical reviews, case studies, conceptual frameworks, and policy-relevant articles are welcome.

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/0U09925QOP

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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.

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