Special Issue

Indoor Air Quality, Indoor Environment and Energy Application of Sustainable Building

Message from the Guest Editors

This Special Issue focuses on the critical intersection of Indoor Air Quality (IAQ), the indoor environment, and energy applications within the context of sustainable buildings. As modern architecture strives for net-zero energy consumption, the impact of reduced ventilation and advanced materials on occupant health and comfort becomes paramount. We invite the contribution of research that explores innovative strategies to optimize IAQ and thermal comfort while minimizing energy loads. **Topics include advanced ventilation systems, smart building technologies, low-energy air purification, and the energy implications of building materials.** The goal is to disseminate cutting-edge research that supports the development of high-performance buildings that are both energy-efficient and conducive to human health and well-being, fostering a holistic approach to sustainable design. More details:
https://www.mdpi.com/journal/buildings/special_issues/9D22NY650J

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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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