Special Issue

Research on Indoor Air Quality and Sustainable Artificial Environments

Message from the Guest Editors

Good indoor air quality is a vital element of building sustainability as people spend most of their time indoors. It is beneficial to increase occupant health, productivity, and well-being. The spread of COVID-19 and the flu has strengthened the importance of research on indoor air quality. Meanwhile, the concept of artificial environments is not limited to traditional offices, residential buildings, classrooms, shopping malls, etc., as vehicles, subway cabins, airplanes, and even some special spaces including submarines, airships, and space stations should be included in the scope of artificial environments. The optimal and smart control of HVAC systems is basic to build a healthy, comfortable, and sustainable environment in the abovementioned artificial spaces. This Special Issue provides a platform for the exchange of knowledge, designs, and techniques to create a healthy and sustainable artificial environment. This Special Issue is open to any subject area relating to research on indoor air quality and sustainable artificial environments. Research papers, analytical reviews, case studies, conceptual frameworks, and policy-relevant articles are welcome.

Guest Editors

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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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