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Indoor Environment and Thermal Comfort: Healthy, Energy Efficiency and Sustainability

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Message from the Guest Editors

A comfortable indoor environment can enhance occupants' health, comfort, and productivity. With global warming and the shortage of traditional energy sources, relevant theoretical science surrounding human thermal comfort has undertaken a new challenge for developing healthy and low-carbon buildings. Firstly, thermal comfort levels perceived by occupants are notably different due to various influencing factors, including thermal experience, clothing, climate regions, individuals, building technology, and so on. Knowing how to construct a widely applicable thermal comfort evaluation model is an important issue that needs exploring before it is applied. Secondly, the construction of comfortable indoor environments is closely associated with building energy consumption. Understanding how to realize a low-carbon, comfortable, and healthy building is another important issue.

This Special Issue, "Indoor Environment and Thermal Comfort: Healthy, Energy Efficiency and Sustainability", welcomes excellent original contributions and high-impact works, with the goals of conducting thermal comfort research in special climate regions and promoting energy conservation.

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Special Issue

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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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