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Indoor Climate and Energy Efficiency in Buildings

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Message from the Guest Editors

This Special Issue would like to invite cutting-edge technologies that can help to achieve healthier indoor environments and lower energy consumption under the changing climate. These can include energy-efficient systems, renewable energy, energy storage materials and technology, environmental protection equipment and techniques, energy-efficient/smart behaviour, etc. The scope includes the above mentioned topics, with both research articles and review articles are welcome.

The main topics include (but are not limited to):

1. Low-energy and healthy buildings;
2. Advanced energy storage materials and technologies;
3. Advanced environmental protection equipment and techniques;
4. Energy-efficient/smart occupant behaviour;
5. Advanced carbon emissions/energy consumption control strategies/techniques throughout the life cycle of buildings;
6. Coupled studies between urban form and building energy systems;
7. Built environment and energy studies in the community scale, such as microclimate, air pollutant control, outdoor environment, district energy system, etc.

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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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