Special Issue

Advanced Studies in Building Energy Efficiency and Occupant Behavior

Message from the Guest Editor

Inefficient energy use leads to high building energy consumption and massive carbon emissions in the building sector. In this context, the development of building technologies with clean energy and the optimization of building energy utilization strategies, are of great significance to improve building energy efficiency and to reduce the carbon emission from buildings It has been proved that in building simulation, including or excluding the consideration of occupant behavior may cause significant differences. Therefore, by studying the interaction between occupant behaviors and the building environment will help to reduce the building energy consumption while satisfying the healthy and comfort requirement of occupants. In this Special Issue, we invite submissions on exploring cutting-edge researches and advanced studies in building energy efficiency and occupant behavior. Both theoretical and experimental studies are welcome, as well as comprehensive review and survey papers. For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/ Energy_Behavior

Guest Editor

Dr. Yan Ding
School of Environment Science and Technology, Tianjin Key Laboratory of Built Environment and Energy Application, Tianjin University, Tianjin 300350, China

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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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

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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