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Recently Advances in the Thermal Performance of Buildings

Guest Editor:

Prof. Dr. Haiying Wang
School of Environmental and Municipal Engineering, Qingdao University of Technology, Qingdao 266033, China

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Message from the Guest Editor

Dear Colleagues,

The thermal performance of buildings involves a wide field relating to building envelops, thermal insulation, lighting, heating, ventilating, air conditioning, energy use, maintenance, energy saving, etc. Research works in this field contribute to improvements in the thermal performance of buildings, and they bring about new concepts in the design, construction, management, and control of facilities in buildings. Moreover, the research also provides guidance for updating and developing building techniques.

The main aim of this Special Issue is to explore the recent advances and developments in the thermal performance of buildings. Topics include, but are not limited to, the following:

- Building envelop;
- Lighting;
- Heating, ventilating, and air conditioning;
- Energy use and energy saving;
- Maintenance;
- Building manage and control;
- Indoor air quality.

Best regards.

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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

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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Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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buildings@mdpi.com
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