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Building Energy-Saving Technology

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Deadline for manuscript submissions:
closed (20 February 2023)

Message from the Guest Editors

Dear Colleagues,

I would like to invite you to contribute to a Special Issue of the open-access journal *Buildings* that will be dedicated to "Building Energy-Saving Technology". Buildings consume about 40% of global energy; therefore, the building sector plays a key role in achieving carbon peak and carbon neutrality. Various building energy-saving technologies on building envelops, mechanical systems, and energy resources can help to achieve zero or even net energy buildings, while maintaining comfort and a healthy indoor environment.

This Special Collection aims to present the current state-of-the-art progress and trends in advanced building energy-saving technologies. Original experimental studies, numerical simulations, and reviews in all aspects of building energy utilization, management.[…]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues

/Building_Energy_Saving_Technology

Dr. Yaolin Lin
Dr. Wei Yang

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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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