



Research on Green and Low-Carbon Buildings

Guest Editors:

Dr. Jia Wei

School of Economics and
Finance, Xi'an Jiaotong
University, Xi'an 710061, China

Dr. Qun Feng

School of Business, University of
Jinan, Jinan 250002, China

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submissions:

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Message from the Guest Editors

We would like to invite you to contribute to a Special Issue of the open-access journal Buildings that will be dedicated to “Research on Green and Low-carbon Buildings”.

The goal of this Special Collection is to research the development of green and low-carbon buildings. This Special Collection welcomes original experimental research, numerical simulations, and reviews on all facets of green and low-carbon buildings. Potential topics include but are not limited to:

- Zero/low-carbon buildings and Zero/low-carbon communities;
- Green buildings;
- Building energy and economic analysis;
- Building embodied energy and life cycle analysis;
- Energy demands, consumption and balances in the built environment;
- The willingness and capability of the public to pay for green housing;
- Links between building environmental quality, energy conservation and health.
- Building energy consumption policy, building energy saving behavior.



Dr. Jia Wei

Dr. Qun Feng

Guest Editors



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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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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