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Improvements in Building Thermal and Energy Behaviours towards Net Zero Performance

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closed (19 April 2024)

Message from the Guest Editors

This Special Issue encourages contributions presenting the latest research results and good examples of building technologies that can drive the transition towards net-zero performance buildings based on experimental studies and numerical simulation. Both original research papers and review papers are welcome. Topics of interest include, but are not limited to:

- Bioclimatic building design;
- Envelope materials, components, and systems from low-carbon building materials;
- Super-insulating and innovative materials (e.g., vacuum insulation panels, gas-filled panels, aerogel-based products, and phase change materials);
- High-performance heating and ventilation systems for cold climates;
- Passive solar design for heating-dominated climates;
- Renewable energy systems for buildings;
- Advanced control strategies for building systems;
- Indoor environmental quality in high-performance buildings;
- Advancements in thermal and moisture control in building envelopes;
- Retrofitting for optimal energy performance;
- Natural daylight, efficient lighting, and low-energy appliances in high-performance buildings.



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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