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Improvements in Building Thermal and Energy Behaviours towards Net Zero Performance

Message from the Guest Editors

Guest Editors:

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Deadline for manuscript submissions: closed (19 April 2024)



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are not limited to.

- Bioclimatic building design;
- Envelope materials, components, and systems from low-carbon building materials;

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

- 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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Message from the Editor-in-Chief

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