Special Issue

Thermal Performance and Energy Efficiency of Low-Embodied Carbon Building Envelopes

Message from the Guest Editors

This Special Issue aims to publish papers that study the hygrothermal performance and durability of emerging low-embodied carbon materials in the building envelope and the competing interest of operational carbon and embodied carbon in the design of energy-efficient building envelope systems. The topics of interest include but are not limited to the following:

- Low-embodied carbon building envelope materials and systems;
- Thermal and hygrothermal performance of low-carbon building envelopes;
- Multi-objective optimization of insulation materials for the lowest GHG emissions;
- Energy-efficient building envelope systems;
- Durability and climate resiliency of low-embodied carbon building envelope systems;
- Biobased materials in building envelopes;
- Nature-based solutions (NBSs);
- Design for disassembly.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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