Special Issue

Advances in Energy Efficiency in Buildings

Message from the Guest Editor

In the building sector, interest in improving energy efficiency and saving energy is on the rise. The development and application of energy-saving methods are crucial in the stages of building design and construction, and the management, automation, and optimization of energy systems are vital in the stage of building operation. Recently, in the field of building energy, research on improving building energy efficiency using advanced technology such as artificial intelligence is being actively conducted. This Special Issue welcomes original research in the area of energy-efficient technology in buildings, smart and intelligent buildings, sustainable and net-zero energy buildings, building optimal control and operation, and building commissioning. Topics of this Special Issue include, but are not limited to, the following specific issues:

- Building energy conversation and efficiency measure
- Building energy management System(BEMS)
- Building energy systems design, modeling and optimization
- Building optimal control and operation
- Heating, ventilating and air conditioning (HVAC) and renewable energy system
- Machine and deep learning based control
- Smart and virtual sensor

Guest Editor

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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.

Editor-in-Chief

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