Special Issue

Advances in Smart Buildings, Energy Storage, and Sustainable Energy Engineering

Message from the Guest Editors

Building will play a key role in the effort to achieve a netzero-energy future. Buildings serve as hubs of energy in the form of both electricity and heat. A smart modern building can be a generator as well as a consumer of electricity. Buildings can reserve and supply energy to the grid using electrical energy storage (e.g., batteries and EVs) as well as thermal energy storage (e.g., HVAC and water heaters). The Special Issue aims to provide an advanced forum for research on heat, mass, building energy, and electricity, at both residential and powersystem levels. This will add to the value that Sustainability already has as an international, crossdisciplinary, scholarly, peer-reviewed and open-access journal concerned with the environmental, cultural, economic, and social sustainability of human beings. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Building energy modelling;
- Home energy management;
- Smart building;
- Net-zero-energy building;
- Vehicle-to-grid (V2G) and vehicle-to-home (V2H).

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)



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About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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