

Special Issue

Advanced Design and Control Solutions for Grid-Interactive Energy Efficient Buildings

Message from the Guest Editors

This Special Issue will focus on "Advanced Design and Control Solutions for Grid-Interactive Energy Efficient Buildings" with the aim of exploring state-of-the-art approaches and cutting-edge research on grid-interactive buildings. Topics of interest include, but are not limited to:

- Smart building technologies for energy optimization;
- Building-integrated renewable energy;
- Demand response strategies and load management in smart cities;
- Advanced building automation and control systems;
- Machine learning and artificial intelligence applications in building control;
- Grid-interactive building modeling and simulation;
- Building-to-grid (B2G) and vehicle-to-grid (V2G) integration;
- Microgrids and distributed energy resource (DER) management;
- Economic and market analysis of grid-interactive energy efficient buildings;
- Demand response strategies for responding to real-time grid signals;
- Real-world implementation and case studies of grid-interactive energy efficient buildings.

Guest Editors

Dr. Saleh N. J. Al-Saadi

Dr. Razzaqul Ahshan

Dr. Riadh Zaier

Deadline for manuscript submissions

closed (30 November 2024)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/199753

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



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

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)