

Special Issue

Towards Zero Emission and Energy Intelligent Buildings

Message from the Guest Editors

As the world population increases and the pace of urbanization continues unabated, the construction of smart cities with large commercial and residential buildings is expected to accelerate. The concept of zero-emission and smart buildings promises to usher in a new age of urban energy efficiency. This Special Issue aims to introduce research methodologies and case studies that address the topics related to smart, healthy, zero-emission grid-interactive efficient buildings, and real-world applications. Original research articles and reviews are welcome. Research areas may include the following:

- Evaluation of technologies related to energy efficiency and flexibility in smart buildings;
- Advanced control schemes for demand flexibility in buildings;
- Artificial intelligence and IoT in smart buildings;
- Hybrid renewable residential microgrids;
- Zero-emissions buildings;
- Efficient measures for reducing building-related carbon emissions;
- Building design with constructal theory.

We look forward to receiving your contributions.

Guest Editors

Dr. Hooman Farzaneh

Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, 76-1, Kasuga-koen, Kasuga-shi, Fukuoka 816-8580, Japan

Prof. Dr. Adrian Bejan

Pratt School of Engineering, Duke University, 148A Engineering Bldg, Box 90300, Durham, NC 27708, USA

Deadline for manuscript submissions

closed (30 December 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.9



mdpi.com/si/111715

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 4.1
CiteScore 8.9



[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)