



Towards Zero Emission and Energy Intelligent Buildings

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)

Message from the Guest Editors

Dear Colleagues,

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.

Assoc. Prof. Dr. Hooman Farzaneh

Prof. Dr. Adrian Bejan





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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. *Sustainability* publishes original research articles, review 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.

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](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

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

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)