



Smart Building: Eco-friendly Technology

Guest Editors:

Dr. Wentao Wu

Department of Civil and
Architectural Engineering,
Tennessee State University,
Nashville, TN 37209, USA

wwwu@tnstate.edu

Dr. Zhiwen Luo

School of Construction
Management and Engineering,
University of Reading, Reading,
UK

z.luo@reading.ac.uk

Dr. Jingru Benner

Department of Mechanical
Engineering, Western New
England University, Springfield,
MA 01119, USA

jingru.benner@wne.edu

Deadline for manuscript
submissions:

30 October 2021

Message from the Guest Editors

Dear Colleagues,

A smart building must be able to create healthy built environment and stabilize faster decarbonization of its energy system using eco-friendly technologies. It is widely accepted that sensor deployment, the Internet of Things, big data analytics, and deep learning algorithms are fundamental technologies for smart buildings.

This Special Issue focuses on eco-friendly technologies for smart buildings and addresses the abovementioned questions. The scope of this Special Issue covers but is not limited to the following topics:

Deploying wireless sensor networks, big data, and machine learning algorithms to advance smart buildings into an integrated cyber–physical system;

Transforming smart buildings into health-cognitive environment to assist in preventing pandemics such as COVID-19;

Integrating digital twin technology into smart buildings for whole-life-cycle performance prediction.

I sincerely invite researchers to contribute to this Special Issue of Sustainability – Smart Building: Eco-friendly Technology by submitting comprehensive reviews or original research articles.

Prof. Dr. Wentao Wu

Prof. Dr. Vincent Luo

Prof. Dr. Jingru Benner



mdpi.com/si/68513

Special Issue



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. 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.

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](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and many [other databases](#).

Journal Rank: [JCR](#) - Q2 (*Environmental Sciences*) / [CiteScore](#) - Q1 (*Geography, Planning and Development*)

Contact Us

Sustainability
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

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