



energies



an Open Access Journal by MDPI

Advances in Materials, Technologies and Controls for Sustainable Buildings

Guest Editors:

Prof. Geun Young Yun

Department of Architectural Engineering, Kyung Hee University, Yongin, Korea

Prof. Dr. Seung Hyun Cha

Department of Interior Architecture Design, Hanyang University, Seoul 04763, Republic of Korea

Deadline for manuscript submissions:

closed (20 February 2022)

Message from the Guest Editors

Providing comfortable indoor conditions is a primary function of buildings, and a large amount of energy is consumed to maintain indoor comfort conditions. For example, the building sector accounts for about 30% of the total energy consumption in the world. Therefore, there have been large efforts to reduce energy consumption by developing new materials and technologies for buildings. They include advances in passive measures (e.g., superinsulation, airtightness envelopes, high-performance windows, daylight harvesting systems, phase change materials, etc.) and active systems (e.g., energy-efficient heating, ventilating, and air-conditions systems; on-site renewable energy generation; innovative electrical lighting; energy storage systems; etc.). New materials and technologies are indispensable for the design and operation of sustainable buildings which are energy efficient without sacrificing occupant comfort.

The main aim of this Special Issue is to provide a platform for a wide range of professionals to understand and discuss the major challenges and recent advancements in materials and technologies in sustainable buildings.



mdpi.com/si/34330

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)