energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 6.2

Optimal Design of Energy System for Low-Energy Residential Buildings

Guest Editors:

Dr. Dongdong Zhang

Dr. Shenwang Li

Dr. Lina Yang

Dr. Xiang Li

Deadline for manuscript submissions:
closed (15 December 2022)

Message from the Guest Editors

Low-energy residential buildings face various challenges due to a rapidly increasing share of renewable energy resources and an increasing interplay with other energy sectors. Distributed energy resources (DERs), such as wind, solar, energy storage, combined heat and power plants, electric vehicles, and smart loads, have become prevalent. Moreover, we are moving towards an integrated energy system (IES) on an unprecedented scale. An IES not only allows the full utilization of renewable energy resources, but also achieves a higher energy efficiency. The integration of variable sources and the efficient and synergistic utilization of these energies are likely to be a key focus in future developments. Despite the low probability of occurrence, the high impact of extreme weather events and natural disasters also increases the need for resilience studies regarding the future distribution grid.

energies

IMPACT FACTOR 3.0

CITESCORE 6.2

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