



energies



an Open Access Journal by MDPI

Solar Cooling and Heating Technologies

Guest Editors:

Prof. Dr. Ruiz Ramirez Javier

Department of Mechanical Engineering and Energy, Miguel Hernández University of Elche, Avenida Universidad s/s, 03202 Elche, Spain

Dr. Lucas Miralles Manuel

Department of Mechanical Engineering and Energy, Universidad Miguel Hernández, Avda. de la Universidad, s/n, 03202 Elche, Spain

Deadline for manuscript submissions:

closed (15 January 2022)

Message from the Guest Editors

Dear Colleagues,

Buildings account for a surprisingly high 40% of the final energy consumption worldwide. For example, in Europe, the resulting CO₂ emissions constitute 36% of the EU's carbon footprint. Amongst the different uses for energy in buildings, heating and cooling accounts for 76% of the total final energy use in EU households. Accordingly, the heating and cooling demand in the building sector constitutes a major target in the energy efficiency policies due to the potential increase in significant energy savings and decrease in CO₂ emissions.

In this sense, the development and use of high-efficient energy systems totally or partially driven by renewable (solar) energy can contribute to achieving a highly energy-efficient and decarbonised building stock.

This Special Issue of *Energies* titled “Solar cooling and heating technologies” calls for papers that investigate innovative ideas and research progress in solar cooling and heating systems for the purpose of reducing the energy consumption in the building sector.

Prof. Dr. Ruiz Ramirez Javier

Assoc. Prof. Lucas Miralles Manuel

Guest Editors



mdpi.com/si/66955

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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