Special Issue

Energy Efficiency in Buildings Through Energy Capture From Outer Space

Message from the Guest Editors

Buildings are responsible for nearly half of total global carbon emissions, with a significant portion stemming from operational energy consumption. Utilizing energy from outer space, such as solar and radiative cooling energy, is a renewable and environmentally friendly solution for powering buildings. Harnessing this energy effectively is crucial for achieving greater energy efficiency in buildings. We enthusiastically welcome submissions focusing on forward-thinking topics, including research on materials, devices, and systems for harnessing energy from outer space in buildings. Topics may encompass, but are not limited to, photovoltaic systems, solar thermal collectors, PV/T modules, spectrum splitting techniques, and radiative cooling technologies. Additionally, we invite submissions that assess the large-scale potential of solar energy and radiative cooling at city or regional scales. Submissions may take the form of original research articles or comprehensive reviews, incorporating legislative considerations, that align with the aims and scope of this Special Issue.

Guest Editors

Dr. Chuyao Wang

Dr. Jianheng Chen

Dr. Sai Liu

Deadline for manuscript submissions

closed (28 February 2025)

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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