



Recent Advances in Solar Cooling Technologies and Energy Conversion

Guest Editors:

Dr. Shek Mohammad Atiqure Rahman

Department of Sustainable and Renewable Energy Engineering, College of Engineering, University of Sharjah, Sharjah 27272, United Arab Emirates

Prof. Dr. Ibrahim I. El-Sharkawy

Department of Sustainable and Renewable Energy Engineering, College of Engineering, University of Sharjah, Sharjah 27272, United Arab Emirates

Dr. Ali Mohammed Radwan

Sustainable and Renewable Energy Engineering Department, College of Engineering, University of Sharjah, Sharjah 27272, United Arab Emirates

Deadline for manuscript submissions:

18 September 2024



mdpi.com/si/199342

Message from the Guest Editors

This Special Issue seeks to showcase and distribute cutting-edge advancements in the theory, design, modeling, application, control, and condition monitoring of various aspects of solar cooling and energy conversion technologies. The scope for publication encompasses, but is not restricted to, the below topics:

- Enhanced absorption chillers.
- Hybrid solar PV and absorption cooling systems.
- Thermal energy storage innovations.
- Next-generation concentrated solar power (CSP).
- Advanced control and monitoring systems such as heat exchangers, absorbers, and reflectors, tailored for enhanced performance.
- Novel materials and components for enhanced performance and durability in solar cooling and energy conversion systems.
- Economic and environmental assessments.

Dr. Shek Mohammad Atiqure Rahman

Prof. Dr. Ibrahim I. El-Sharkawy

Dr. Ali Mohammed Radwan

Guest Editors



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)