Special Issue

Advanced Cooling and Heat Transfer Strategies for Energy-Efficient Renewable Systems

Message from the Guest Editors

This Special Issue aims to bridge the gap between theoretical innovation and practical implementation by showcasing cutting-edge research in thermal science. Topics of interest for this Special Issue include, but are not limited to, the following:

- Next-generation cooling technologies: Innovations in evaporative cooling, dry/wet/hybrid cooling, regenerative cooling systems, natural cooling sources and low-carbon cooling technologies for renewable systems, net-zero energy buildings, data centers, and beyond.
- Material-driven solutions: Advances in phase-change materials (PCMs), nanofluids, and thermally conductive composites for enhanced heat dissipation and energy storage.
- System optimization: Computational and experimental studies on heat exchanger design, cooling tower performance, and integration with renewable energy systems.
- Sustainability-driven approaches: Strategies to minimize water usage, reduce parasitic energy losses, and leverage waste heat recovery in renewable systems.

Guest Editors

Dr. Suoying He

Prof. Xiang Huang

Prof. Dr. Muzaffar Ali

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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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