

Special Issue

Advanced Thermal Management and Cooling Technologies

Message from the Guest Editors

In modern society, industrial development and social progress cannot be separated from the advances in highly integrated equipment. The overheating concern is regarded as the predominant reason for equipment failure, which accounts for nearly a 55% proportion of the system suspension. Effective thermal management and cooling technologies are crucial for the operation of components in high-accuracy and high-reliability states. This Special Issue aims to present and disseminate the most recent advances in a wide range of fields related to the theory, mechanisms, design, modelling, application and control of thermal management and cooling technologies. Topics of interest for publication include, but are not limited to:

- Effective thermal management and cooling technologies for batteries, 3D printers, IGBT, LEDs, motors, fiber optics;
- High-efficiency thermal protection;
- Passive cooling strategies and active cooling strategies;
- Phase-change cooling;
- Energy saving in buildings and HVAC systems;
- Thermal management of nuclear energy;
- Heat and mass transfer enhancement;
- CFD simulation and prediction.

Guest Editors

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Deadline for manuscript submissions

closed (25 January 2023)



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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.

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