



Advanced Thermal Management and Cooling Technologies

Guest Editors:

Prof. Dr. Wenxiao Chu

Key Laboratory of Thermo-Fluid Science and Engineering (Ministry of Education), Xi'an Jiaotong University, Xi'an 710049, China

Dr. Lizhong Yang

Surbana Jurong-NTU Corporate Lab, Nanyang Technological University, Singapore 637335, Singapore

Prof. Dr. Qiuwang Wang

Key Laboratory of Thermo-Fluid Science and Engineering (Ministry of Education), Xi'an Jiaotong University, Xi'an 710049, China

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Message from the Guest Editors

Dear Colleagues,

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.





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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

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