Special Issue

Phase Changed Heat Transfer Mechanisms for Variable Gravity in Aerospace Applications

Message from the Guest Editors

In this Special Issue, we want to report on the boiling, condensation, melting, and solidification phase change heat transfer mechanisms under shifting gravity conditions, including heat transfer characteristics under microgravity, bubble dynamics, two-phase flow pattern and pressure drop, variable gravity phase change heat transfer prediction model, and numerical simulation technology. Keywords:

- variable gravity
- microgravity
- thermal management
- boling and condensation
- melting and solidification
- heat transfer enhancement
- bubble dynamics
- numerical simulation
- boiling prediction model
- two-phase flow pattern
- gravitational effect
- multiphase flow

Guest Editors

Dr. Wei Wang

School of Energy Science and Engineering, Harbin Institute of Technology, Harbin 150001, China

Dr. Wenke Zhao

School of Energy Science and Engineering, Harbin Institute of Technology, Harbin 150001, China

Deadline for manuscript submissions

closed (31 March 2025)

Aerospace

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/210618

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

mdpi.com/journal/aerospace

Aerospace

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.0

mdpi.com/journal/aerospace

MDPI

About the Journal

Message from the Editor-in-Chief

You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.
Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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), Inspec, Ei Compendex, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Aerospace) / CiteScore - Q2 (Aerospace Engineering)