



Advanced Thermodynamics for Aerospace Application

Guest Editor:

Prof. Dr. Sang Hun Kang

Department of Mechanical and
Aerospace Engineering, Konkuk
University, Seoul 05029, Korea

Deadline for manuscript
submissions:

closed (1 December 2022)

Message from the Guest Editor

Dear Colleagues,

Due to the rapid development and combination of the private-led NewSpace industry and information and communication technology, demand for various technologies to overcome the extreme conditions of high altitude atmosphere and space is increasing. Many types of sensitive electronic devices within aerospace vehicles should be able to operate in severe environmental conditions and therefore be appropriately protected.

This special issue invites researchers who try to overcome the extreme conditions for aerospace vehicles. The research topics can be about not only vehicle protection techniques but research on the damage characteristics due to extreme conditions. Recommended topics include but are not limited to :

- Thermal protection techniques in general
- Thermal cracking and coking in regenerativ cooling
- Thermo-structural analysis with external/internal heating conditions
- Ablation and damage of materials in hypersonic flows
- Effects of non-equilibrium hypersonic flow on aerospace vehicles
- Thermal management techniques for aerospace vehicles
- Other updates in thermodynamic application for aerospace vehicles





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Konstantinos Kontis

School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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.

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, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Aerospace*) / CiteScore - Q2 (*Aerospace Engineering*)

Contact Us

Aerospace Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/aerospace
aerospace@mdpi.com
[X@Aerospace_MDPI](#)