Special Issue

Advanced Thermodynamics for Aerospace Application

Message from the Guest Editor

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 condtions 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 aerospspace vehicles

Guest Editor

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Deadline for manuscript submissions

closed (1 December 2022)

Aerospace

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/122182

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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.

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