



Sustainable Civil Supersonic and Hypersonic Aircraft: Main Challenges and Latest Developments

Guest Editor:

Dr. Roberta Fusaro

DIMEAS-Department of
Mechanical and Aerospace,
Politecnico di Torino, Corso Duca
degli Abruzzi 24, 10129 Turin, Italy

Deadline for manuscript
submissions:

31 March 2025

Message from the Guest Editor

We kindly invite you to submit full-research articles and review manuscripts addressing (but not limited to) the following topics:

- Holistic conceptual design methodologies and tools
- Innovative vehicle and subsystems configurations (with special interest to the impact of sustainable aviation fuels: bio-fuels, liquid hydrogen, etc.)
- Multidisciplinary design optimization
- Pollutant and greenhouse gases emission characterization in conceptual design
- Noise emissions characterization, abatement technologies and procedures
- Air quality and climate impact
- Sonic boom prediction: signature, atmospheric propagation, and meteorological effects
- Methodologies and tools for life-cycle cost estimations for supersonic and hypersonic transportation systems
- Technology road mapping methodologies and tools
- Concept of operations analysis: trajectory optimization, out-of-nominal mission, safety assessment, etc.
- Human factors and social acceptance
- Regulatory framework





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](#)