

Special Issue

Flow Control and Drag Reduction

Message from the Guest Editor

Drag reduction is an eternal and hot topic in the design of low- and high-speed aircraft, and underwater vehicles in order to achieve the purpose of saving fuel, improving speed and increasing range. The conventional method of reducing drag through shape optimization has met the development bottleneck, whereas the adoption of certain flow control measures to affect the flow around various shapes can improve its drag characteristics and even the stealthy performance of the aircraft. Flow control can be applied to delay/advance transition, inhibit/promote flow separation, enhance/weaken flow stability, shock wave control, etc., so as to achieve drag reduction, which has broad application prospects and research value. This special issue will include the following topics: flow control techniques, flow separation control, lift enhancement and drag reduction, flight control, laminar flow control, transition control, turbulence drag reduction, shock wave control, SWBLI control and other applications to drag reduction.

Guest Editor

Prof. Dr. Zhenbing Luo

College of Aerospace Science and Technology, National University of Defense Technology, Deya Road, Kaifu District, Changsha 410073, China

Deadline for manuscript submissions

closed (31 July 2023)



Aerospace

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.4



mdpi.com/si/137238

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

[mdpi.com/journal/
aerospace](https://mdpi.com/journal/aerospace)





Aerospace

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.4



[mdpi.com/journal/
aerospace](https://mdpi.com/journal/aerospace)



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, and other databases.

Journal Rank:

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