

Special Issue

Development of Novel Orbital Debris Protection Systems

Message from the Guest Editor

Orbital debris presents a serious threat to active satellites. Due to the extremely high impact velocities involved, even a single collision can be detrimental to a spacecraft's functional systems and subsystems. Since the launch of the first Sputnik in 1957, the accumulation of space debris in low Earth orbit (LEO) has steadily increased, raising the risk of impacts with larger orbital debris particles and necessitating enhanced protection for present and future spacecraft. The rapid development of new materials and numerical simulation techniques provides new opportunities for advanced protection systems that can address the worsening orbital debris situation. This Special Issue aims to highlight the development of novel orbital debris protection systems for space missions. Original contributions are invited to address topics on effective protective measures for spacecraft to withstand hypervelocity impacts from orbital debris, including, but not limited to, concepts; design solutions; and physical and numerical hypervelocity impact testing, analysis, and implementation for specific missions.

Guest Editor

Dr. Igor Telichev

Department of Mechanical Engineering, University of Manitoba,
Winnipeg, MB, Canada

Deadline for manuscript submissions

31 January 2026



Aerospace

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.0



mdpi.com/si/225036

Aerospace
Editorial Office
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 2.2
CiteScore 4.0



[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, Ei Compendex, and other databases.

Journal Rank:

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