

Special Issue

Recent Advances in Space Debris

Message from the Guest Editors

Space debris represents a risk for current and future missions in Earth orbit. Debris impacts may cause damages to space vehicles up to the point of loss of functionality of the entire spacecraft. The debris environment therefore requires continuous monitoring and regulation strategies, which should be coordinated among all stakeholders to avoid any further deterioration. This Special Issue aims to present recent advances in research on space debris to improve the safety of the near-Earth orbits and mitigate the risks related to debris impacts. Topics of interest include but are not limited to hypervelocity impact modeling and testing; spacecraft vulnerability analysis and protection design and development; debris observation and environmental modeling; fragmentation event simulation, analysis, and observation; re-entry technologies and life-extension systems; active debris removal concepts, missions, and in-orbit demonstrations; sensors and systems for disposal; and space traffic management.

Guest Editors

Dr. Lorenzo Olivieri
Prof. Dr. Kanjuro Makihara
Dr. Leonardo Barilaro

Deadline for manuscript submissions

closed (31 May 2023)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/90157

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls-ci@mdpi.com

[mdpi.com/journal/
appls-ci](https://mdpi.com/journal/appls-ci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)