

Special Issue

New Insights into Aircraft Power Systems

Message from the Guest Editors

The more/all electrical aircraft concept has fundamentally changed the architecture of onboard power system. To increase the efficiency and power density, high-performance power converters and electric machines have received increasing attention in recent years. Despite these advancements, the topology design and control of these devices still remains an open challenge to meeting the specialized demands of the aviation industry. Moreover, as various power sources and loads coexist, the coordination and energy management of onboard power system is also a crucial aspect to ensuring the overall energy conversion efficiency. This specialized issue seeks to share and spotlight recent research findings and practical applications in the field of aircraft power systems, addressing the needs of emerging applications. Authors interested in contributing to this endeavor are welcome to submit their original contributions, survey papers, or tutorials with the potential for publication.

Guest Editors

Prof. Dr. Weilin Li

School of Automation, Northwestern Polytechnical University, Xi'an 710072, China

Dr. Yang Qi

School of Automation, Northwestern Polytechnical University, Xi'an 710072, China

Deadline for manuscript submissions

closed (25 May 2024)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 6.1



mdpi.com/si/192322

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

mdpi.com/journal/

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 6.1



[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 (Fluid Flow and Transfer Processes)