aerospace

an Open Access Journal by MDPI

IMPACT FACTOR 2.1

CITESCORE 3.4

Electric Power Systems and Components for All-Electric Aircraft

Guest Editor:

Dr. Mona Ghassemi
Department of Electrical and Computer Engineering, University of Texas, Richardson, TX 75080, USA

Deadline for manuscript submissions:
30 September 2024

Message from the Guest Editor

he transportation sector generates a remarkable share (the largest share (28%) in the U.S.) of greenhouse gas (GHG) emissions. To achieve net-zero emission, all-electric transportation has been targeted, making all-electric cars, trucks, trains, aircraft, and ships a likely realization. While electric vehicles are close to maturity, the aviation industry is in its infancy regarding electrification for commercial aircraft. Large aircraft, including narrow-body and wide-body aircraft, are responsible for more than 75% of aviation GHG emissions; this is likely to worsen with the historical 4–5% annual growth in air travel. There are two categories of aircraft electrification: more electric aircraft (MEA) and all-electric aircraft (AEA). An MEA simply replaces a subsystem, such as a hydraulically driven actuator, with an electric alternative. On the other hand, an AEA is comprised of electrically driven subsystems, as well as having thrust power fully provided by electrochemical energy units (EEUs).

aerospace

IMPACT FACTOR 2.1

CITESCORE 3.4

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