



energies



an Open Access Journal by MDPI

Towards a Transformation to Sustainable Aviation Systems

Guest Editors:

Prof. Dr. Jens Friedrichs

Prof. Dr. Ulrike Krewer

Prof. Dr. Peter Horst

Prof. Dr. Thomas Spengler

Prof. Dr. Rolf Radespiel

Prof. Dr. Arno Kwade

Deadline for manuscript
submissions:

closed (31 July 2018)

Message from the Guest Editors

This Special Issue shall cover scientific approaches and contributions to the transformation of aviation systems towards sustainability over the next few decades. This is motivated by expectations to reduce the environmental impact, and to improve the reliability, safety and on-schedule operation, of aviation. In other sectors of mobility, a reduction of the carbon footprint is being realized through intensive electrification; the very high power and energy density demand of aviation do not allow for a direct transfer of such technology. This Special Issue aims to give interdisciplinary insight into possible technologies for transformation to a sustainable aviation system, and, thus, should contribute in overcoming existing paradigms, allowing for new approaches in aircraft and subsystems. Concepts, technologies, and their impacts need to be understood and analyzed in detail to propose system solutions that satisfy the expectations and allow aviation to be part of a closed-looped or zero-emission energy system. Topics may cover research from the perspective of natural science, engineering, economics, and social science.



mdpi.com/si/12555

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)