Special Issue

Towards a Transformation to Sustainable Aviation Systems

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.

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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.

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