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Towards a Transformation to Sustainable Aviation Systems

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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 onschedule 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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Message from the Editor-in-Chief

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