

Special Issue

Aircraft Life Cycle Assessment

Message from the Guest Editors

Given the growing environmental awareness of society and politics and the resulting pressure on aviation as one of the significant contributors to greenhouse gas emissions and other environmental impacts, ecological impact assessments are becoming increasingly important as the first step towards sustainable engineering. The primary motivation for conducting such environmental assessments is to determine the environmental impact of aircraft throughout the life cycle phases of manufacturing, operation, maintenance, repair and overhaul, and end-of-life. Understanding these impacts is essential for all stakeholders in the aviation system for making sound decisions about the design, operation, and disposal of aircraft as well as operational and technological measures that will reduce the environmental footprint in the most effective way and thus ultimately help to create more sustainable aviation systems.

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