Special Issue

Aircraft Emissions and Climate Impact

Message from the Guest Editor

This Special Issue aims to gather high quality scientific papers that focus on the atmospheric effects from aircraft emissions. Air traffic emits greenhouse and trace gases, soot, sulphur aerosols, water vapor and forms contrails. Contrails behind aircrafts are among the most evident of anthropogenic effects on the atmosphere. It is known that contrails dissipate quickly if the atmosphere is dry, vanishing within a few minutes or even seconds. If the atmosphere is humid enough, the contrails may persist and may turn into contrail-cirrus clouds. Global aviation is responsible for 2.5% of global anthropogenic carbon dioxide (CO2) emissions. It is estimated that, together, CO2 and non-CO2 aviation emissions account for approximately 3.5% of warming. We welcome studies that analyze aircraft emissions, aviation-induced clouds, cirrus clouds, changes, radiative forcing estimates, as well as studies that assess mitigation options for reducing the climate impact of air traffic, during periods with or without air travel restrictions and disruptions.

Guest Editor

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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.

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