





an Open Access Journal by MDPI

# **Aircraft Emissions and Climate Impact**

Guest Editor:

#### Prof. Dr. Kostas Eleftheratos

Department of Geology and Geoenvironment, National and Kapodistrian University of Athens, Panepistimioupoli Zografou, 15784 Athens, Greece

Deadline for manuscript submissions:

closed (30 September 2022)

## **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 (CO<sub>2</sub>) emissions. It is estimated that, together, CO<sub>2</sub> and non-CO<sub>2</sub> 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.











an Open Access Journal by MDPI

### **Editor-in-Chief**

## **Prof. Dr. Konstantinos Kontis** School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

# **Message from the Editor-in-Chief**

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.

#### **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), Inspec, and other databases.

**Journal Rank:** JCR - Q1 (*Engineering, Aerospace*) / CiteScore - Q2 (*Aerospace Engineering*)

#### **Contact Us**