



## Optical and Fiber Optical Sensors for Aerospace Applications

Guest Editor:

**Dr. Aris Ikiades**

Physics Department, University of  
Ioannina, 45100 Ioannina, Greece

Deadline for manuscript  
submissions:

**closed (31 December 2020)**

### Message from the Guest Editor

The aim of this Special Issue is to provide an overview of recent advances in optical and fiber optical sensors for aerospace applications, and authors are invited to submit full research articles and review manuscripts addressing (but not limited to) the following topics:

#### Fiber optic sensors for aerospace

- Structural health monitoring
- Distributed sensors
- Fiber Bragg gratings
- Long period gratings
- Spatial fibers
- Photonic crystal fibers
- Whispering gallery mode sensors
- Non liner sensors (Brillion, Raman)
- Chemical and gas sensors
- Ice accretion and ice crystals detection
- Magnetic and electromagnetic sensors

#### Evanescent optic seniors for aerospace

- Fiber optics
- Fiber tapers
- Planer waveguides
- In chip optical detection
- Plasmonic sensors

#### Interferometer-based sensors for aerospace

- Syniac interferometer
- Michelson interferometer
- Mach Zehnder interferometer





*aerosp*

- Lidar
- Passive optical sensors

IMPACT  
FACTOR  
**2.1**

CITESCORE  
**3.4**

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 - Q2 (*Engineering, Aerospace*) / CiteScore - Q2 (*Aerospace Engineering*)

## Contact Us

*Aerospace* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/aerospace](http://mdpi.com/journal/aerospace)  
[aerospace@mdpi.com](mailto:aerospace@mdpi.com)  
[X@Aerospace\\_MDPI](https://twitter.com/Aerospace_MDPI)