



## Recent Advances in Optical Fiber Sensing and Applications

Guest Editors:

### Dr. Bohong Zhang

Department of Electrical and  
Computer Engineering, Missouri  
University of Science and  
Technology, Rolla, MO 65409,  
USA

### Dr. Jie Huang

Department of Electrical and  
Computer Engineering, Missouri  
University of Science and  
Technology, Rolla, MO 65409,  
USA

Deadline for manuscript  
submissions:

**31 October 2024**

### Message from the Guest Editors

Dear Colleagues,

Over the past few decades, optical fiber sensors (OFSs) have evolved into indispensable tools across a myriad of industries. In recognition of the continuous advancements in optical fiber sensing methodologies, we cordially extend an invitation for your contribution to our upcoming Special Issue entitled "*Recent Advances in Optical Fiber Sensing and Applications*". We welcome original research and review articles concerning recent developments and applications of fiber optic sensors, including, but not limited to, the following:

- Optical fiber interferometers;
- Optical fiber spectroscopy;
- Fiber Bragg gratings;
- Distributed fiber optic sensing;
- Fiber optic imaging system;
- Specialty optical fibers sensors;
- Biomedical and healthcare-oriented optical fiber sensors;
- Integration of machine learning in optical fiber sensor technology;
- Advanced materials for optical fiber sensing;
- Novel signal processing methodologies in optical fiber sensing;
- Diverse industrial applications of fiber optic sensing spanning civil structures, aerospace, oil and gas, environmental monitoring, security, military and defense, and steel industry.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

## 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), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)