# Special Issue

# Novel Advances in Optical Fiber Gratings

### Message from the Guest Editors

The exploration of fiber Bragg gratings (FBGs) is a pivotal aspect of optical fiber technology, given their extensive applications in fiber sensing, optical communications, and laser systems. In sensing applications, FBGs are utilized to measure strain, temperature, vibration, pressure, and other physical parameters, as changes in these conditions cause shifts in the Bragg wavelength. This Special Issue, entitled 'Novel Advances in Optical Fiber Gratings', aims to showcase the latest innovations and advancements in FBG research. We invite manuscripts that provide novel insights or breakthroughs in either fabrication or applications. Topics of interest for this Special Issue include, but are not limited to, the following:

- Fiber grating inscription;
- Fiber grating sensors;
- Applications of fiber gratings in fiber lasers;
- New technologies and applications of grating sensors;
- Distributed and multiplexed sensing and sensor networking;
- Artificial intelligence (AI)-assisted grating applications;
- Performance-enhanced grating sensors in industrial applications.

We look forward to receiving your contributions.

### Guest Editors

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### Deadline for manuscript submissions

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# About the Journal

## Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

## Editor-in-Chief

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