Special Issue

Recent Progress in Optical Gyroscopes

Message from the Guest Editor

Optical gyroscope is an inertial sensor that uses the Sagnac effect to measure the rotation rate. Compared to traditional mechanical gyroscopes, it has the characteristics of a fully solid-state structure, high precision, low power, and ease of integration. It is widely used in fields such as aerospace, navigation, land navigation, robotics, simulation training, and scientific research. Currently, classical optical gyroscopes are mainly divided into interferometric optical/fiber gyroscopes, laser gyroscopes, resonant optical/fiber gyroscopes, and Brillouin optical/fiber gyroscopes, as well as some new types of optical gyroscopes, such as optomechanical gyroscopes and optical gyroscopes based on non-Hermitian systems with exceptional point (EP). Researchers are invited to contribute papers to this Special Issue. Topics include, but are not limited to, the following:

- Fiberoptic gyroscope (FOG);
- Ring-laser gyroscope (RLG);
- Resonant optical gyroscope;
- Integrated optical gyroscope;
- Brillouin optical gyroscope;
- Optomechanical gyroscope.

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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.

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