Special Issue

Advances in Interferometric Optics and Applications

Message from the Guest Editors

Interferometric optics is a branch of modern optics that offers a theoretical basis for related applied optics, including interferometry, optical holography, contactless measurement methods, etc. This Special Issue aims to present state-of-art interferometric optics in terms of both its theoretical research and field applications. This collection welcomes basic, methodological, and applied research contributions in the form of regular and review papers. Potential topics include, but are not restricted to, the following:

- Novel mechanisms and technologies in interferometric optics;
- Novel interferometer instruments or devices for engineering applications;
- High-performance dimensional metrology;
- Optomechanical designs and system integration;
- Optical processing, manufacturing, and inspection;
- Phase modulation/demodulation of interferometry;
- Optic–electronic detection techniques for interferometric optics;
- Data-driven artificial intelligence-enabled data processing methods;
- The evaluation and comparison of interferometers' performance;
- Applications of performance-enhanced interferometers in industrial applications.

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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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