Special Issue

The Emerging Science and Applications of Microwave Photonics

Message from the Guest Editors

Microwave photonics is an interdisciplinary field that combines the disciplines of optics and microwave engineering in order to combine both to develop novel devices and systems for use in a variety of applications. For instance, microwave photonics can be used to generate high-frequency signals for wireless communication, offering high spectral purity and low phase noise. It can also be used in sensing applications, such as fiber optic sensors. We welcome potential authors working in relevant fields to submit original research that addresses the key challenges and opportunities including but not limited to the following areas:

- Integrated microwave photonics;
- Microwave photonic filters;
- Microwave photonic oscillators;
- Microwave photonics for sensing and communication applications;
- Microwave photonic signal processing;
- Microwave photonics for radio frequency and microwave systems;
- Novel devices and systems for microwave photonics;
- Novel applications of microwave photonics.

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Guest Editors

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Deadline for manuscript submissions

closed (31 October 2024)

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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.

Editor-in-Chief

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