Special Issue

Advances in Semiconductor Photonic Integrated Circuits

Message from the Guest Editors

In recent decades, semiconductor photonic integrated circuits (PICs) have advanced significantly, affecting fields like telecommunications, data centers, sensing, and quantum computing. These circuits combine various photonic functions on a single chip, improving performance, lowering costs, and reducing energy use. Ongoing innovations in materials, fabrication, and design are driving this progress. The merging of electronics and photonics on a single platform has led to the development of more efficient and compact devices. Advances in integration technologies and new materials are rapidly expanding PIC applications, including high-speed data transmission and precise biomedical sensing. This Special Issue focuses on the latest advancements in semiconductor photonic integrated circuits. In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.

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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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