Special Issue

Photonic Integrated Circuits: Techniques, Insights and Devices

Message from the Guest Editor

Photonic integrated circuits (PICs) represent a groundbreaking technology in the field of photonics, enabling the integration of complex photonic functions onto a single chip, such as light generation, modulation, routing, detection, and emission. PICs not only offer integration and reduced energy consumption, but provide support for the maneuverability and stability of systems. With the current exponential growth of data pressure, PICs will provide an important platform and strategy for the future of optical computing, quantum computing, artificial intelligence, and life sciences. This Special Issue welcomes the original research and review papers. The scope includes, but is not limited to, the following topics:

- New optoelectronic integrated circuits that combine photonic and electronic technologies;
- Adaptive photonic network architectures for dynamic routing and resource allocation;
- The application of nonlinear optics in photonic integrated circuits;
- High-sensitivity integrated optical sensors;
- The use of quantum states for information transmission and processing;
- Other photonics technologies about photonic integrated circuits.

Guest Editor

Dr. Wenzhao Sun

College of Engineering, City University of Hong Kong (Dongguan), Songshan Lake, Dongguan 523000, China

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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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

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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