Special Issue

Photonic Integrated Circuits for Information, Computing and Sensing

Message from the Guest Editors

Integrated photonics is a well-established research field with numerous applications ranging from telecommunications to integrated sensors, classical computing to quantum computing. On the one hand, advances in manufacturing technologies made available by the microelectronics industry have enabled the design of new devices and the production of increasingly large photonic integrated circuits. On the other hand, nanofabrication technologies that have recently become available have enabled the fabrication of entirely new devices, such as new types of sensors, light detectors, or devices for the generation, manipulation, and detection of non-classical states of light. This Special Issue aims to provide an overview of cutting-edge research and review papers on photonic integrated circuits and their applications. Topics include, but are not limited to, the following:

- Nanophotonics;
- Integrated photon detectors and sensors;
- Quantum information;
- Integrated quantum photonics;
- Polymer waveguides;
- 1D and 2D materials;
- Optical sensing.

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Deadline for manuscript submissions

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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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