Special Issue

Fundamentals and Design of Micro/Nano Photonic Devices

Message from the Guest Editors

Micro/nano photonic devices constitute a rapidly evolving research frontier with profound implications for many areas, including optical communication, information processing, sensing, and quantum technologies. The capacity of these devices to manipulate light at micro-/nano-scales enables the realization of ultracompact, high-speed, and energy-efficient photonic functionalities that are unattainable with conventional optical systems. This Special Issue on "Fundamentals and Design of Micro/Nano Photonic Devices" welcomes original research articles and critical reviews in areas including, but not limited to, the following:

- Fundamental mechanisms of light–matter interaction in micro/nano structures;
- Design and optimization of micro/nano photonic devices;
- Micro/nano light sources, modulators, detectors, and integrated photonic circuits;
- Fabrication technologies and novel materials for micro/nano photonics;
- Emerging applications in optical communication, quantum information, biosensing, and energy-efficient photonics.

Guest Editors

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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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