Special Issue

High-Performance Semiconductor Optoelectronic Devices

Message from the Guest Editors

Semiconductor optoelectronic devices have attracted extensive attention for their variety of applications including telecommunication, sensing, energy conservation, displays, and lightning. To meet the growing demand, high-performance devices have been developed through advancements in materials, sophisticated device architectures, and innovative fabrication techniques. This Special Issue aims to present up-to-date high-performance semiconductor optoelectronic devices, such as (μ)LEDs, lasers, photodetectors, and solar cells. Topics include but are not limited to the following:

- Novel methods for synthesizing and fabricating optoelectronic materials;
- Advances in device architecture for enhanced performance;
- Techniques for characterizing and evaluating material properties and device performance;
- Low-dimensional semiconductor optoelectronic materials and devices;
- Semiconductor optoelectronic device physics, modeling, and simulation.

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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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