Special Issue

Prospects and Applications of Semiconductor Optoelectronics

Message from the Guest Editor

Semiconductor optoelectronics is a multidisciplinary field that explores the interaction between light and semiconductor materials. It includes devices such as light-emitting diodes, laser diodes, photodetectors, and solar cells, all of which leverage semiconductor properties to generate, modulate, or detect light. This technology plays a pivotal role in advancing communication systems, renewable energy solutions, and imaging technologies. We are pleased to invite you to contribute your research to the Special Issue "Prospects and Applications of Semiconductor Optoelectronics". Original research articles and reviews are welcome in this Special Issue. Their research areas may include (but are not limited to) the following: the theory, design, device fabrication, and applications of semiconductor light-emitting diodes (LEDs), laser diodes (LDs), photodetectors (PDs), and solar cells.

Guest Editor

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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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