

Special Issue

III-V Semiconductors Optoelectronic Materials and Devices

Message from the Guest Editors

III-V semiconductor optoelectronic materials and devices, including, but not limited to conducting and semiconducting materials used in integrated optoelectronic circuits, light emitting diodes and display devices, lasers, solar cells, photo detectors, optoelectronic sensors, etc., have dramatically impacted the way humans live in the twentieth and twenty-first centuries. Specially, new technology, e.g. nanotechnology, neuromorphic computing technology is introduced into III-V semiconductor materials to develop quantum dot laser, quantum dot LED, quantum dot detectors and so on. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Semiconductor lasers and SOA
- VCSEL
- Frequency combs
- Coupled lasers
- Hybrid integrated lasers
- Optical detectors
- Optical modulator
- Quantum dot laser
- III-V compound semiconductor nanowires or quantum dots for optoelectronics
- Hybrid integrated optoelectronic chips
- VCSEL, SOA or semiconductor ring cavity for neuromorphic computing network architectures

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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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Author Benefits

High Visibility:

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CAPlus / SciFinder, and other databases.

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JCR - Q2 (Optics)

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manuscripts are peer-reviewed and a first decision is
provided to authors approximately 14.8 days after
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the first half of 2024).