



Integrated Photonics and Optoelectronics

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Message from the Guest Editors

Integrated photonic and optoelectronic technologies have become powerful tools to drive the development of devices to be much smaller and highly integrated, with lower power consumption and higher functionality. With the development of advanced materials and nanofabrication techniques, the last two decades have witnessed tremendous progress in the integrated photonic and optoelectronic devices, such as graphene-based ultrafast optical detectors, Si-based ultra-low-loss waveguides, Brillouin integrated lasers, lithium-niobite-film-integrated high-speed modulators, and the emerging new area of artificial intelligence and quantum computing. Thus, this Special Issue, to be published in *Micromachines*, aims to present original state-of-the-art research papers and review articles on the topic of active and passive integrated photonic and optoelectronic devices, methods for the design and simulation of integration process, micro- and nanofabrication techniques, and related advanced functional nanomaterials in integrated devices.





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Message from the Editor-in-Chief

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