

Special Issue

Optical Modulation

Message from the Guest Editors

Optical modulation, which encodes the high-speed baseband signal onto the optical carrier with high signal fidelity, is indispensable for every level of optical networks. The ideal modulator should feature low power consumption, large bandwidth, low loss, high linearity, a compact footprint, and low manufacturing cost. It is well-known that device structure, design, material platforms, fabrication processes, package technology, and transmission systems all have a critical impact on modulation performance. Therefore, we focus attention on these factors and push optical modulation towards a next-generation electro-optic interface. This Special Issue aims to collect the latest experimental and theoretical (simulation) advancements in integrated, bulk, or free-space-type devices and subsystems for high-speed and low-power optical modulation. Research areas may include (but are not limited to) the following: electro-optic modulator, electro-absorption modulator, integrated modulator, spatial light modulator, electro-optic frequency comb, intensity modulation direct detection transmission, coherent optical transmission, and transmitter.

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