Special Issue

Recent Progress in Integrated Photonics and Future Prospects

Message from the Guest Editor

Integrated photonics has witnessed remarkable development in recent years and is reshaping the landscape of modern technology. In the field of communication, the commercial application of optical modules with a rate of 400 G or even higher has been achieved, significantly enhancing the efficiency of information transmission both within data centers and between data centers. In the area of optical sensing, integrated photonics-based sensors, with their single-molecule-level detection precision, have opened up new paths for early disease diagnosis and personalized medicine. These sensors are applied in scenarios such as real-time atmospheric monitoring and water quality analysis. New material platforms and heterogeneous integration technologies have been emerging continuously, enabling remarkable innovative functional applications. Looking ahead, integrated photonics will continue to make breakthroughs in directions such as high-speed communication, multi-functional integration, and quantum information processing.

Guest Editor

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