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Special Issue Reprint

Recent Progress in Integrated Photonics

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This Reprint collects cutting-edge research on integrated photonics, showcasing the latest advances in chip-scale light manipulation technologies that are reshaping modern communications, computing, and sensing systems. The articles herein explore innovative material platforms, novel device architectures, and hybrid integration strategies that enable higher performance and greater functionality in compact photonic circuits. Key focus areas include photonic integration with electronics, quantum photonics implementations, and emerging applications spanning telecommunications, optical data processing, and precision sensing. Together, these works highlight the critical role of integrated photonics in addressing the growing demand for faster, more efficient, and scalable optical technologies. This compilation serves as a comprehensive resource for researchers and engineers working at the intersection of applied optics, nanotechnology, and integrated device engineering.

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