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Integrated Waveguide-Based Photonic Devices

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Message from the Guest Editors

This Special Issue focuses on the state-of-the-art achievements in integrated waveguide-based photonic devices, with a broader aim to present novel material, design methodology, and fabrication techniques as well as cutting-edge applications. We welcome work in any form, including reviews, articles, letters, and viewpoints. Topics of interest include (but are not limited to):

- Low-loss waveguides and high-Q resonators;
- Passive wavelength/mode/power-controlling devices;
- Waveguide-grating couplers and optical I/Os;
- Waveguide-based modulators and detectors;
- On-chip light sources;
- Optoelectronic hybrid and heterogeneous integration;
- Novel waveguide materials and platforms;
- Optical phased arrays and chip-based LiDAR;
- Integrated photonic neural network and parallel computing;
- Integrated quantum photonic devices;
- Integrated mid-infrared photonic devices;
- Optofluidic devices and lab-on-chip systems.