

Special Issue

Piezoelectrically Actuated Integrated Photonics

Message from the Guest Editor

With the rise of programmable photonic circuits, post-fabrication trimming, and dynamic adaptation, reconfigurability and tunability are increasingly vital. Yet electrical tunability in passive photonic devices remains a long-standing challenge for platforms lacking electro-optic tuning. Piezoelectric actuation offers low-power, high-speed solution, promising for next-gen photonic computing and signal processing due to seamless compatibility with passive platforms. Driven by unique tuning and fabrication compatibility, piezoelectrically actuated integrated photonics is expected to become a cornerstone for future reconfigurable PICs.

This Special Issue covers state-of-the-art advances in piezoelectrically actuated integrated photonics, aiming to present novel design methods, device architectures, fabrication techniques, and cutting-edge applications. We welcome original research, reviews, letters, and perspectives. Topics include (but not limited to):

- Piezoelectric materials and platforms;
- Novel device architectures;
- Optomechanics;
- Optoelectronic integration;
- Fabrication techniques;
- Integrated optical modulators;
- Integrated photonic computing;
- AI-accelerated computing.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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