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**Call for Papers**  
***Journal of Quantum Electronics***  
**Special Issue on Silicon Photonics: SiPhotonics 2026**

**Guest Editors**

Winnie Ye, Carleton University, Canada, [winnie.ye@ieee.org](mailto:winnie.ye@ieee.org)

Guangwei Cong, AIST, Japan, [gw-cong@aist.go.jp](mailto:gw-cong@aist.go.jp)

Di Lang, University of Michigan, [liangdi@umich.edu](mailto:liangdi@umich.edu)

Patrick Lo, Global Foundries, Singapore, [guoqiang.lo@globalfoundries.com](mailto:guoqiang.lo@globalfoundries.com)

Bassem Tossoun, Hewlett Packard Labs, [bassem.tossoun@hpe.com](mailto:bassem.tossoun@hpe.com)

Alan Wang, Baylor University, [Alan\\_Wang@baylor.edu](mailto:Alan_Wang@baylor.edu)

**Scope and Topics**

Silicon Photonics has become an important technology for high-speed data communications, especially in the area of coherent communication systems. While the need to enable higher data rates requires ongoing innovation, emerging applications such as LiDAR, AI, high-performance computing, and quantum information are driving further exploration of device, materials, and processing technologies to meet performance requirements in these areas.

This focus issue will feature invited papers from the 2026 IEEE Silicon Photonics Conference, as well as welcome submitted papers on the same topics from interested authors. Priority for submitted work will be placed on active and passive device technologies for silicon photonics, fabrication technologies and advanced integration methods, and nanophotonics and engineered structures.

Topics covered will be: Active Photonic Devices, Emerging and Novel Applications, Electronic-Photonic and Heterogeneous Integration, Frontiers in Materials and Fabrication, Passive Photonic Devices. It will also host industry sessions on Datacomms & AI, Quantum & Computing, and Sensing.

**Submission Guidelines**

Submissions will be reviewed in accordance with the normal procedures of the Journal and papers must be formatted according to the Information for Authors found at:

<https://ieeeyonrex.com/journal/jqe-ieee>

Select the paper type “**Special Issue on Silicon Photonics: SiPhotonics 2026**”

**Important Dates**

Open for Submissions: March 31, 2026

Submission Deadline: June 19, 2026

Tentative Publication: October 2026 (Volume 62, Issue 5)

**EARLY ACCESS:** DOI-citable articles will be published online after acceptance upon submission of final files and rights selection – sometimes well in advance of issue publication.

**For further information, contact the Journal of Quantum Electronics Editorial Office:**

Rebecca Hytowitz, Journal Administrator

Email: [r.hytowitz@ieee.org](mailto:r.hytowitz@ieee.org)

John Dallesasse, Editor-in-Chief

Email: [jdallesa@illinois.edu](mailto:jdallesa@illinois.edu)