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## Preliminary Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on  
**Foundry-Enabled Photonic Integrated Circuits**

Submission Deadline: December 1, 2018  
Hard Copy Publication: Sept/Oct 2019

The IEEE Journal of Selected Topics in Quantum Electronics (JSTQE) invites manuscript submissions in the area of **Foundry-Enabled Photonic Integrated Circuits**. The purpose of this issue of JSTQE is to highlight the recent progress and trends in foundries and associated technologies to develop volume manufacturing of photonic integrated circuits. As integrated photonics technology matures and potential market demands increase, foundries become critical for volume production. In recent years the developments in the offerings of foundry services and multi-project wafer (MPW) runs, in both silicon and InP based material systems, enable a path toward volume production of photonic integrated circuits. Fabrication in the foundry environment will also lead to more highly integrated circuits, performance improvements and lower cost.

Specific areas of interest include (but not limited to):

- Topic 1 Electronic Photonic Integration
- Topic 2 Integration of photonics in standard CMOS technology nodes
- Topic 3 Interposer platforms and die attach
- Topic 4 Photonic circuit design for volume manufacture
- Topic 5 Test for volume manufacture
- Topic 6 Wafer level package
- Topic 7 Cost models
- Topic 8 Foundry models for custom, low-volume manufacturing

The Primary Guest Editor for this issue is **Madeleine Glick**, MIT, USA. The Guest Editors are: **Paul Juodawlkis**, MIT-Lincoln Laboratories, USA;

The deadline for submission of manuscripts is **December 1, 2018**. Hardcopy publication of the issue is scheduled for **September/October 2019**.

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**For inquiries, please contact:**

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The following documents located at <http://mc.manuscriptcentral.com/jstqe-pho> are required during the mandatory online submission.

1) PDF manuscript (double column format, up to 12 pages for an invited paper, up to 8 pages for a contributed paper). Manuscripts over the standard page limit will have an overlength charge of \$220.00 per page imposed. Biographies of all authors are mandatory, photographs are optional. See the Tools for Authors link:

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