

## Preliminary Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on

### Ultra Low Loss Planar Waveguides and Their Applications

Submission Deadline: October 1, 2017  
Hard Copy Publication: July/August 2018

The **IEEE Journal of Selected Topics in Quantum Electronics** (JSTQE) invites manuscript submissions in the area of **Ultra Low Loss Planar Waveguides and Their Applications (ULLPWA)** featuring planar technologies with state of the art low losses:

- ULLPW design and basic technology
- ULLPW integration platforms and fabrication
- ULLPW based components
- Nonlinearities in ULLPWs (e.g. Brillouin, Raman)
- Heterogeneous integration with Silicon Photonics and InP
- Active ULLPW based devices
- High Q resonators
- Filtering and dispersion compensation
- Optical delay lines
- Optical gyros
- Optical true time delays
- Integration of quantum devices with ULLPWs
- Energy efficient photonic integration
- TE and TM response and polarization sensitivity
- Octave spanning frequency generation and comb generators
- ULLPW based gratings
- ULLPW based lasers
- Microwave and optical oscillators
- ULLPW based sensors
- ULLPW based signal processing and coding
- Phased array devices and applications
- Wavelength and polarization dependence on scattering and bending loss
- Coherent optical transmitters, receivers and transmission
- Optical clocks
- Low loss on-chip communications and networks
- Photonic molecules and topological photonics

The Primary Guest Editor for this issue is **Daniel J Blumenthal**, University of California at Santa Barbara (UCSB), USA. The Guest Editors of the issue are **Mario Dagenais**, University of Maryland, USA; **Benjamin Eggleton**, University of Sydney, Australia; **Dries Van Thourhout**, Ghent University, Belgium; **Caterina Ciminelli**, Politecnico di Bari, Italy.

Unedited preprints of accepted manuscripts are normally posted online on IEEE Xplore within 1 week of the final files being uploaded by the author(s) on ScholarOne Manuscripts. Posted preprints have digital object identifiers (DOIs) assigned to them and are fully citable. Once available, the preprints are replaced by final copy-edited and XML-tagged versions of manuscripts on IEEE Xplore. This usually occurs well before the hardcopy publication date. These final versions have article numbers assigned to them to accelerate the online publication; the same article numbers are used for the print versions of JSTQE.

**For inquiries, please contact:**

**IEEE Photonics Society JSTQE Editorial Office - Chin Tan Lutz (Phone: 732-465-5813, Email: [c.tanlutz@ieee.org](mailto:c.tanlutz@ieee.org))**

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

1) PDF or MS Word 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: [www.ieee.org/web/publications/authors/transjnl/index.html](http://www.ieee.org/web/publications/authors/transjnl/index.html).

2) MS Word document with full contact information for all authors as indicated below:

Last name (Family name), First name, Suffix (Dr./Prof./Ms./Mr.), Affiliation, Department, Address, Telephone, Facsimile, Email.

JSTQE uses the iThenticate software to detect instances of overlapping and similar text in submitted manuscripts and previously published papers. Authors should ensure that relevant previously published papers are cited and that instances of similarity are justified by clearly stating the distinction between a submitted paper and previous publications.