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## Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on  
[Ultrafast Science and Technology](#)

Submission Deadline: October 1, 2018

Hard Copy Publication: July/August 2019

The IEEE Journal of Selected Topics in Quantum Electronics (JSTQE) invites manuscript submissions in the area of **Ultrafast Science and Technology**. The purpose of this issue of JSTQE is to highlight the recent progress and trends in ultrafast science and technology with an emphasis on ultrafast optics. The topic generally encompasses the generation, manipulation, characterization, and use of ultrashort pulses. Much exciting progress has been made in all of these areas, including novel developments enabling new applications in spectroscopy and imaging, biomedical applications, materials processing, and research. Specific areas of interest include (but not limited to):

- Generation of ultrashort optical pulses from lasers
- Parametric oscillators and amplifiers of ultrashort pulses
- Ultrahigh peak-power laser systems and related technologies
- High harmonic and attosecond pulse generation technology and science
- Novel methods for shaping and measuring ultrashort pulses
- Few-cycle pulses, carrier-envelope phase
- Ultrashort x-ray pulses; generation, characterization, and synchronization of XFELs
- Ultrafast laser applications that drive technology advancements and innovation
- Pulse synthesis

The Primary Guest Editor for this issue is **Sterling Backus**, KMLabs, Inc., USA. The Guest Editors are: **Charles Durfee**, Colorado School of Mines, USA; **Alan Fry**, SLAC National Accelerator Laboratory, USA; **Daniel J. Kane**, Mesaphotonics, LLC, USA; **Jeff Squier**, Colorado School of Mines, USA; **Günter Steinmeyer**, Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Germany.

The deadline for submission of manuscripts is **October 1, 2018**. Hardcopy publication of the issue is scheduled for **July/August 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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