



Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on

Solid-State Lasers

Submission Deadline: April 1, 2014

The *IEEE Journal of Selected Topics in Quantum Electronics* (JSTQE) invites manuscript submissions in the area of **Solid-State Lasers**. Advances in solid-state lasers and nonlinear frequency conversion provide powerful tools for an increasingly broad range of applications including spectroscopy, metrology, remote sensing, security, material processing, astronomy, medicine, biology, display, and ignitions. Especially, the high-brightness as achievable with giant pulses from Q-switching and amplified mode-locking enable fruitful nonlinear interactions for materials. The purpose of this issue of JSTQE is to highlight the recent progress and trends in the development of leading-edge **Solid-State Lasers**. The solicited areas include (but are not limited to):

- Solid-state laser physics, spectroscopy, theory, and modeling for materials and cavities
- Tunable and new wavelength solid-state lasers, including nonlinear frequency conversions
- High-power lasers and power scaling strategies (oscillator, amplifier, injection seeding/locking, and beam combining)
- Short-pulse lasers (mode-locking, Q-switching, and their pulse gap)
- Laser and nonlinear materials (single crystal, glass, semiconductor, and ceramics)
- Laser structures (slab, disk, fiber, waveguide, microchip, and other micro-structures)
- Pump sources for lasers such as high-power and wavelength-stabilized diode arrays
- Narrow-linewidth, frequency-stable, and low-noise lasers
- Applications in science, medicine, remote sensing, industry, display and ignitions

The Primary Guest Editor for this issue is **Takunori Taira**, Laser Research Center, Institute for Molecular Science, Japan. The Guest Editors are **Tso Yee Fan**, MIT Lincoln Laboratory, USA; and **Guenter Huber**, University of Hamburg, Germany.

The deadline for submission of manuscripts is April 1, 2014. 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 the ScholarOne Manuscripts submission system. Posted preprints have digital object identifiers (DOIs) assigned to them and are fully citable. Once available, final copy-edited and XML-tagged versions of manuscripts replace the preprints 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. Hardcopy publication of the issue is scheduled for **January/February 2015**.

For inquiries regarding this Special Issue, please contact:

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

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.

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.

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