

Call for Papers

Announcing an Issue of the IEEE *JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS* on **Current Trends in Terahertz Photonics and Applications**

Submission Deadline: April 1, 2012

Terahertz photonics and applications have been rapidly advanced, especially within the last two decades. *IEEE Journal of Selected Topics in Quantum Electronics* invites manuscript submissions in the area of terahertz photonics and applications, emphasizing the current trends. The goal of this issue is to highlight the current trends in fundamental understanding of terahertz photonics and developing novel terahertz applications. Broad technical areas include (but are not limited to):

- ▶ Advances in sources such as quantum cascade lasers, parametric frequency converters, and those based on novel schemes
- ▶ Progress in detections including novel schemes
- ▶ Advances in time-domain systems
- ▶ Applications in spectroscopy, sensing, and imaging including physical and life sciences
- ▶ Components such as filters and mirrors, waveguides, Y couplers, and novel functionalities
- ▶ Advances in communications including theories, demonstrations, and systems
- ▶ Promising new materials such as ferroelectrics, superconductors, and nanostructures including growth, characterization, devices, and applications
- ▶ Novel phenomena and devices based on metamaterials, surface plasmons, polaritons, phonons, photonic crystals, near-field effects, and nonlinearities
- ▶ Novel applications
- ▶ Novel measurement techniques and instrumentations including imaging

The Guest Editors for this issue are **Yujie J. Ding**, Lehigh University, USA; **Hiromasa Ito**, RIKEN, Japan; **Peter Uhd Jepsen**, Technical University of Denmark, Denmark; **Weili Zhang**, Oklahoma State University, USA.

The deadline for submission of manuscripts is **April 1, 2012**; **preprints of accepted manuscripts will be posted in the IEEE Xplore website within 2 weeks after authors have correctly uploaded their final files** in the Scholar One Manuscripts "Awaiting Final Files" queue. **Final page proofs of accepted papers will be posted online in IEEE Xplore ideally within 6 weeks after the author has uploaded their Final Files, if there are no page proof corrections.** Hardcopy publication of the assembled Issue is scheduled for **January/February of 2013**.

Online Submission is Mandatory at: <http://mc.manuscriptcentral.com/pho-ieee>. Please select the Journal of Selected Topics of Quantum Electronics Journal from the drop down menu. Contributed papers should be up to eight pages in length, and invited up to 12 pages. Beyond that, a charge of \$220 per page applies. All submissions will be reviewed in accordance with the normal procedures of the Journal.

For inquiries for this Special Issue, please contact:
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Phone: 732-465-5813, Email: c.tanlutz@ieee.org

The following supporting documents are required during manuscript submission:

1) PDF or MS Word manuscript (double columned, 12 pages for an Invited Paper, 8 pages for a Contributed paper.) Manuscripts over the standard page limit will have an Overlength charge of \$220.00 imposed per page. Bios of ALL authors are mandatory, photos are optional. You may find the Tools for Authors link useful: <http://www.ieee.org/web/publications/authors/transjnl/index.html>

2) Completed Color Agreement/decline form. Please email c.tanlutz@ieee.org to request for this form.

3) MS Word document list of ALL Authors FULL Contact information as stated below:
Last name (Family name): /First name: Suffix (Dr/Prof./Ms./Mr):/Affiliation:/ Dept: / Address:/ Telephone:/ Fax:/ Email:/ Alternative Email: