



Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on

Nanoplasmonics

Submission Deadline: August 1, 2012

The last decade has seen an explosion of research interest linking plasmons to various disciplines in physics, chemistry, biology, engineering, material science, thin film technology, optics, nanosciences, etc. Nanoplasmonics aims at investigating and controlling light on length scales comparable or below the wavelength of operation, possibly down to tens of nanometers and on femtosecond time scales. Control is achieved with individual metallic nanostructures, specifically tailored to increase effective light-matter interactions by providing large local field enhancements or by slowing down propagation. The *IEEE Journal of Selected Topics in Quantum Electronics* invites manuscript submissions ranging from fundamental studies to applications of nanoplasmonics. Technical areas include but are not limited to:

- Plasmonic nanoparticles
- Light-matter nanoscale interaction and nanoantennae
- Low-loss doped semiconductors with plasmonic properties
- Subwavelength metallic surfaces
- Scattering and amplification of surface plasmons
- Quantum plasmonics
- Optical metamaterials
- Advanced nanomaterials, flexible and non-planar meta-surfaces
- Novel nanofabrication and calculation methods for plasmonics
- Nonlinear and ultrafast plasmonics
- Infrared and terahertz plasmonics
- Ultra-compact photonic devices
- Plasmonics for photovoltaics
- Plasmonics for advanced microscopy and spectroscopy
- Plasmonics for biomedical applications
- Optical interconnects at subwavelength scales

The Primary Guest Editor for this issue is **Hatice Altug**, Boston University, Boston, MA, USA, and the Guest Editors are **Andrea Alù**, University of Texas, Austin, TX, USA, **Philippe Lalanne**, Institut d'Optique Graduate School, Bordeaux, France, **Stefan Maier**, Imperial College London, London, UK, and **Din Ping Tsai**, National Taiwan University, Taipei, Taiwan.

The deadline for submission of manuscripts is **August 1, 2012**. **Preprints of accepted manuscripts will be posted on the IEEE Xplore website within 2 weeks of authors correctly uploading their final files** in the Scholar One Manuscripts "Awaiting Final Files" queue. **Final page proofs of accepted papers are normally posted online in IEEE Xplore within 6 weeks of authors uploading their final files, if there are no page proof corrections.** Hardcopy publication of the issue is scheduled for **May/June of 2013**.

All submissions will be reviewed in accordance with the normal procedures of the Journal.

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The following supporting documents are required during the mandatory online submission at <http://mc.manuscriptcentral.com/pho-ieee> (please select the Journal of Selected Topics in Quantum Electronics from the drop down menu).

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. You may find the Tools for Authors link useful: <http://www.ieee.org/web/publications/authors/transjnl/index.html>

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

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