

Call for Papers

Preliminary
Announcing an Issue of the IEEE
***JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS* on**
Solid State Lighting

Submission Deadline: December 1, 2008

IEEE Journal of Selected Topics in Quantum Electronics invites manuscript submissions in the area of solid state lighting. The purpose of this issue of JSTQE is to document recent advances in the physics, simulation, material, and device physics of high efficiency solid state lighting technology. Broad technical areas include (but are not limited to):

- ▶ Material physics, material growth and processing, and novel substrates for solid state lighting
 - new materials for high efficiency light-emitting diodes in visible regimes
 - novel substrate and growth techniques for reduced cost in material synthesis, and reduced dislocation density
 - new materials and processing technology for high-efficiency light-emitting diodes
 - fundamental physics of new materials applicable in solid state lighting
- ▶ Physics and simulation of solid state lighting device technology
 - device physics of nanostructures for high radiative efficiency in visible-spectrum light-emitting diodes
 - physics of the efficiency droop in light-emitting diodes
 - high power light-emitting diodes
 - novel concept for enhancing light extraction in light-emitting diodes
 - physics and simulation of nanostructures and devices
 - physics of high performance visible-spectrum diode lasers and light-emitting diodes for solid state lighting
 - device reliability for light-emitting diodes
 - quality of white light emitted by solid-state lighting devices including color rendition, color rendering index, and color temperature
 - drive electronics for solid-state lighting devices
 - phosphor distributions for uniform emission
- ▶ Novel device concepts
 - new device concepts for high efficiency light-emitting diodes
 - novel device concepts in visible-spectrum light-emitting diodes
 - surface plasmon and photonic crystal light-emitting diodes
 - new approaches for high efficiency white light-emitting diodes: phosphors and multi-device configurations
 - novel device cooling techniques for high power light-emitting diodes and laser devices
 - thermal management and modeling in visible light-emitting diodes and laser devices

The Guest Editors for this issue are **Prof. Nelson Tansu**, Lehigh University (Bethlehem, PA, USA); **Prof. E. Fred Schubert**, Rensselaer Polytechnic Institute (Troy, NY, USA), **Prof. Peter M. Smowton**, Cardiff University (Cardiff, Wales, UK); **Prof. Hao-Chung Kuo**, National Chiao-Tung University (Hsinchu, Republic of China).

The deadline for submission of manuscripts is **December 1, 2008**; publication is scheduled for **July/August of 2009**.

Online Submission is Mandatory at: <http://mc.manuscriptcentral.com/leos-ieee> Please select the Journal of Selected Topics Of Quantum Electronics Journal from the drop down menu. All submissions will be reviewed in accordance with the normal procedures of the Journal.

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Contact c.tan-yan@ieee.org for any questions about this issue. For all papers published in *JSTQE*, there are voluntary page charges of \$110.00 per page for each page up to eight pages. Invited papers can be twelve pages and Contributed papers should be 8 pages in length before overlength page charges of \$220.00 per page are levied. The length of each paper is estimated when it is received. Authors of papers that appear to be overlength are notified and given the option to shorten the paper. Additional charges will apply if color figures are required.

The following supporting documents are required during manuscript submission:

- 1) Manuscript should be submitted in MS-Word format (.doc format) with double columned. The page limit for Invited Paper is 12 pages, and the contributed paper should be limited to 8 pages in length. The biographies of ALL authors are mandatory, while the photographs are optional. You may find the Tools for Authors link useful:
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- 4) The contact information for ALL authors should also be included, with the following format:
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