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Call for Papers

Announcing an Issue of the IEEE
JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on
Solid-State Lasers

Submission Deadline: December 1, 2017
Hard Copy Publication: September/October 2018

The **IEEE Journal of Selected Topics in Quantum Electronics** invites manuscripts that document the current state-of-the-art in the area of **Solid-State Lasers**. Solid-state lasers are versatile sources of coherent, high-brightness radiation with a diverse range of applications in science and technology, including spectroscopy, health sciences, manufacturing, communication, defense, and metrology. Recent advances in this field have focused on power scaling approaches and efficient pumping architectures, new coherent short-pulse sources, as well as the development of novel gain media based on doped glasses, ceramics and crystals. The objective of this special issue is to document recent, cutting-edge advances in solid-state laser technologies. The solicited areas include (but are not limited to):

- Novel solid-state lasers in the ultraviolet, visible, and infrared
- Microchip, fiber, and waveguide lasers
- Laser beam combining and other power scaling technologies
- Innovative solid-state gain media based on glass, ceramic, and crystal hosts
- Modeling and characterization of solid-state lasers
- Short pulse generation with solid-state lasers
- Nonlinear frequency generation with solid-state lasers
- Spatial mode manipulation in solid-state lasers
- Novel pumping and resonator architectures for solid-state lasers
- Frequency comb sources

The Primary Guest Editor for this issue is **Alphan Sennaroğlu**, Departments of Physics and Electrical-Electronics Engineering, Koç University, Turkey, and the Guest Editors are **Tso Yee Fan**, Massachusetts Institute of Technology, USA; **Christian Kränkel**, Zentrum für Lasermaterialien, Leibniz-Institut für Kristallzüchtung, Germany; **Norihiko Nishizawa**, Department of Electronics, Nagoya University, Japan; **Valdas Pasiskevicius**, Department of Applied Physics, Royal Institute of Technology (KTH), Sweden.

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For inquiries, please contact:

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

The following document 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.

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