Call for Papers

Announcing an Issue of the IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on Optical Detectors

Submission Deadline: June 1, 2021
Hard Copy Publication: March/April 2022

The IEEE Journal of Selected Topics in Quantum Electronics (JSTQE) invites manuscript submissions in Optical Detectors. The field of Optical Detectors is one of the most fundamental research areas in engineering for detection of the light across the optical spectrum from ultraviolet to long-wavelength infrared. Novel applications and the increasingly stringent requirements in optical sensing, imaging, and communications have driven continuous developments in material science and device design. In addition, recent progress of photonic integrated circuits has enabled the development of large-scale, cost-effective detector architectures with enhanced functionality. The IEEE Journal of Selected Topics in Quantum Electronics invites manuscript submissions in the area of Optical Detectors. The purpose of this issue of JSTQE is to highlight recent progress and trends in innovative optical detector technology and its applications. Areas of interest include (but are not limited to):

- High-speed and high-power photodiodes and photomixers
- Detectors and detector arrays for UV, visible, and IR detection
- Avalanche photodiodes and single-photon detectors
- Optical detectors based on novel materials and substrates
- Photodetectors in photonic integrated circuits using monolithic, heterogeneous or hybrid integration technologies
- Coherent optical receivers for the detection of advanced modulation formats
- Microwave photodiodes for analog applications
- Optical detectors with applications in optical communications, infrared imagers, and quantum communications
- Integrated photodetectors for sensing applications.

The Primary Guest Editor for this issue is Atsushi Kanno, NICT, Japan. The Guest Editors are: Andreas Beling, University of Virginia, USA; Kazutoshi Kato, Kyushu University, Japan; Christina Lim, The University of Melbourne, Australia; Patrick Runge, Fraunhofer Heinrich Hertz Institute HHI, Germany.

The deadline for submission of manuscripts is June 1, 2021. Hardcopy publication of the issue is scheduled for March/April 2022.

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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 documents located at http://mc.manuscriptcentral.com/jstqe-pho are required during the mandatory online submission.

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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