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Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on

Nanobiophotonics

Submission Deadline: December 1, 2020

Hard Copy Publication: September/October 2021

The IEEE Journal of Selected Topics in Quantum Electronics (JSTQE) invites manuscript submissions in **Nanobiophotonics**. **Nanobiophotonics** is an advanced field of modern science and biomedical nanotechnology. It has been leading recently to the development of innovative nanotechnologies that provide noninvasive optical imaging, sensing, precise diagnostics and therapeutics at cellular, intracellular and molecular levels with an unprecedented ultrahigh resolution beyond the diffraction barrier in the sub-wavelength nanoscale range (below 100 nm). The *IEEE Journal of Selected Topics in Quantum Electronics* (JSTQE) invites manuscript submissions in the area of **Nanobiophotonics**. The purpose of this issue of JSTQE is to highlight the recent progress and trends in developing of leading-edge nanobiophotonics technologies. Areas of interest include (but not limited to):

- Novel approaches in ultrahigh-resolution nanoimaging and nanoscopy beyond the diffraction limit in the nanoscale range
- *In-vivo* cellular/intracellular nanobiophotonics imaging and sensing
- Single molecule spectroscopy and imaging
- Plasmonic, quantum-dot, surface-enhanced Raman, and infrared nanoparticle biosensor probes
- Nanoparticle-enhanced optical diagnostics, therapeutics and theranostics
- Advanced cancer nanobiophotonics
- Nonlinear ultrahigh-resolution imaging and diagnostics
- Optical manipulation of nanoparticles
- Monitoring biomolecular interactions, structures, and functions on the nanoscale
- Novel nanobiomaterials engineered for nanobiophotonics applications
- Noninvasive biophotonics methods for characterizing nanobiomaterials
- Biocompatibility and phototoxicity of novel nanobiomaterials
- Emerging nanobiophotonics diagnostic, therapeutic and theranostic devices

The Primary Guest Editor for this issue is **Ilko Ilev**, U.S. Food and Drug Administration, USA. The Guest Editors are: **Andrea Armani**, University of Southern California, USA; **James Tunnell**, University of Texas at Austin, USA; **Beop-Min Kim**, Korea University, Korea; **Wei-Chuan Shih**, University of Houston, USA; **Andrew Fales**, U.S. Food and Drug Administration, USA; and **Niko Hildebrandt**, University of Paris, France.

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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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