Special Issue

Topical Problems of Biophotonics

Message from the Guest Editors

This special issue will comprise papers related to recent achievements in biophotonics, including both optical diagnostics modalities and laser-based treatment approaches. The issue aims at the state-of-the art research in the area of biomedical optics. The scope of this Special Issue covers the topics that are traditionally discussed within the frames of the international symposium on Topical Problems of Biophotonics held biannualy in Russia and gathering leading scientists in the area of biomedical optics. The Special Issue scope includes but is not limited to following topics:

- Coherence-based imaging and elastographic techniques;
- Microcirculation and laser speckle contrast imaging;
- Diffuse spectroscopy modalities;
- Fluorescence imaging;
- Optical nonlinear microscopy;
- Optoacoustics;
- Polarization Imaging;
- Laser tweezers and micromanipulation;
- Nanobiophotonics;
- Translational biophotonics;
- Photodynamic therapy;
- Laser surgery;
- Numerical simulations in optical diagnostics;
- Machine and deep learning for optical diagnostics and imaging.

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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