Special Issue

Progress in Neurophotonics and Its Future Perspectives

Message from the Guest Editors

This Special Issue aims to provide a vehicle for communicating important advancements in the use of optical methods/technologies to study brain function, organization and structure microscopically, mesoscopically or macroscopically. Topics include but are not limited to:

- Imaging and manipulation of neural circuitry;
- Methods to investigate cellular energetics, neuroglial and vascular physiology;
- Microscopy and super-resolution optical microscopy;
- Fluorescence imaging;
- Diffuse optical tomography;
- Molecular imaging and nanotheranostics;
- Multimodal optical imaging;
- Noninvasive methods of measuring and imaging brain function and physiology;
- Optogenetics and other optical methods of manipulating cellular behavior;
- Photoacoustic tomography and microscopy;
- Optoacoustic neuromodulation;
- Photodynamic therapy; Photoimmunotherapy; Photobiomodulation;
- Synthetic and genetically encoded optical reporters and actuators;
- Theoretical and computational optical methods; Optical clearing methods;
- Translational and clinical applications.

Guest Editors

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Dr. Dan Wu

Dr. Shixie Jiang

Deadline for manuscript submissions

closed (30 May 2024)

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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.

Editor-in-Chief

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