

Special Issue

Optical Super-Resolution Microscopy

Message from the Guest Editors

This Special Issue on “Optical Super-Resolution Microscopy” aims to provide a comprehensive platform for presenting recent advances and emerging trends in optical super-resolution imaging technologies. We welcome interdisciplinary research at the intersection of optical physics, engineering, biochemistry, and computation that pushes the frontiers of resolution, speed, scale, and dimensionality. In this Special Issue, original research articles and reviews are welcome.

Topics may include, but are not limited to, the following:

- Novel imaging principles and super-resolution mechanisms;
- Multimodal, multicolor, and/or 3D volumetric imaging systems;
- Super-resolution microscopy with adaptive optics;
- New detecting probe and labeling strategies;
- New imaging sensors for super-resolution imaging;
- Super-resolution imaging flow cytometry;
- Algorithm-driven computational super-resolution microscopic frameworks;
- Data-driven super-resolution microscopy;
- Optical super-resolution microscopy integrated with advanced materials;
- Biological, translational, and clinical applications with optical super-resolution imaging.

Guest Editors

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About the Journal

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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