

Special Issue

Advances in Optical Microresonators: Physics and Applications

Message from the Guest Editors

Optical microresonators represent a transformative technology, offering precise control over light–matter interactions and driving advancements across the scientific and technological disciplines. The ability to engineer microresonators with tailored geometries and exceptional material properties has catalyzed progress in optical metrology, telecommunications, sensing, and beyond. This Special Issue aims to collect original research articles and reviews showcasing recent advances in optical microresonators, ranging from their fundamental physics to multifaceted applications. We encourage submissions that exemplify cutting-edge research and highlight the impact of optical microresonators on advancing scientific knowledge and technological innovation. Potential topics include, but are not limited to, the following:

- Microresonator nanofabrication techniques;
- The exploration of new materials for microresonators;
- Frequency comb generation in microresonators;
- Applications of microresonators in lidar, telecommunications, and sensing.

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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