

Special Issue

Advancing Nanophotonics: Research, Innovations, and Intelligence

Message from the Guest Editors

We are pleased to invite you to contribute your latest work to this Special Issue, which aims to showcase the latest breakthroughs in nanophotonics, with a particular focus on how new material, new phenomena, and new technologies, including artificial intelligence, are revolutionizing the field. We seek to provide a platform for researchers to share their findings in this area. The scope of this Issue is broad, encompassing theoretical and experimental studies in nanophotonics. We welcome submissions that explore the design and simulation of nanophotonic devices, the integration of AI in nanophotonic systems, advancements in quantum research, and the role of nanophotonics in sensing, imaging, communication technologies, and photonics computing. We also solicit papers that address challenges and future directions in the field. Research may include (but is not limited to) the following areas:

- Photonic bound states in the continuum
- Modulation of light fields based on metasurfaces
- Novel metasurface devices
- Advanced imaging based on metasurface
- AI for optical metasurface
- Optical computing
- Inverse design in photonics and nanophotonics
- Artificial intelligence nanophotonics

Guest Editors

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Deadline for manuscript submissions

31 March 2026



Photonics

an Open Access Journal
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Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/224783

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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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