Special Issue

Advancements in Nanofabrication: Innovations in Advanced Semiconductor Materials and Processes for Next-Generation Lithography

Message from the Guest Editors

Scope: We invite contributions that delve into the forefront of nanofabrication technologies, emphasizing advancements in semiconductor materials and processes that directly impact next-generation lithography methods. ***Potential Themes:*** Advanced Semiconductor Materials: Explore the latest developments in semiconductor materials such as advanced photoresists, high-index materials, and alternative lithographic materials. Innovative Lithographic Techniques: Investigate novel approaches and methodologies in lithography, including extreme ultraviolet (EUV) lithography, directed self-assembly, and other emerging techniques. Process Optimization and Integration: Address challenges and breakthroughs in optimizing nanofabrication processes, as well as strategies for the seamless integration of advanced materials into existing fabrication workflows. Applications in Emerging Technologies: Showcase the practical applications of nanofabrication innovations in areas such as quantum computing, photonics, bioelectronics, and other cutting-edge technologies.

Guest Editors

Dr. Sihai Luo

Dr. Jingyuan Deng

Dr. Chun Cao

Deadline for manuscript submissions

closed (10 March 2025)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/195201

Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

mdpi.com/journal/photonics

MDPI

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/journal/photonics

MDPI

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.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Instrumentation)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).