Special Issue

Advances in Nanophotonics: Physics, Materials, and Applications

Message from the Guest Editor

Nanophotonics explores the rich interactions between light and matter at the nanoscale, revealing unique optical properties beyond conventional limitations. This Special Issue entitled "Advances in Nanophotonics: Physics, Materials, and Applications" of *Micromachines* welcomes cutting-edge research in plasmonics, metamaterials, nanophotonic structures. self-assembly techniques, spectroscopy, and related interdisciplinary areas. We seek contributions that illuminate both fundamental physical insights and innovative applications across diverse fields including. but not limited to, sensing, imaging, quantum information processing, energy harvesting, and biomedical technologies. By bridging theoretical advances with experimental breakthroughs, this Special Issue aims to catalyze new directions in nanophotonic research and technological development. We invite original research papers, short communications, perspectives, and review articles that advance our collective understanding of this intellectually stimulating and rapidly evolving field.

Guest Editor

Dr. Yi-Yu Cai

Macao Institute of Materials Science and Engineering (MIMSE), Faculty of Innovation Engineering, Macau University of Science and Technology, Taipa, Macau 999078, China

Deadline for manuscript submissions

31 December 2025



Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



mdpi.com/si/238659

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

mdpi.com/journal/micromachines





an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

- 1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
- 2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 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).

