Special Issue

Optical Fiber Laser Technology and Application

Message from the Guest Editors

Optical fiber laser technology stands as a pivotal advancement in modern photonics, leveraging the unique properties of optical fibers to generate, amplify, and deliver high-performance laser beams. This Special Issue will welcome basic, methodological and applied cutting-edge research contributions, addressing topics including but not limited to the following:

- Design, fabrication, and characterization of novel optical fibers, fiber-based laser gain media, and functional components;
- Advanced fiber laser architectures, including high-power, ultrafast, narrow-linewidth, and multi-wavelength laser systems;
- Modeling and simulation of light propagation, nonlinear effects, and thermal management in fiber laser systems;
- Integration of fiber lasers with photonic devices and systems for industrial, medical, and communication applications;
- Innovative applications in material processing, sensing, imaging, biomedicine, and space technologies;
- Reliability, scalability, and optimization of fiber laser systems for real-world deployment;
- Emerging trends such as intelligent fiber lasers, advanced beam shaping, and hybrid photonic integration.

Guest Editors

Dr. Yi An
Dr. Min Jiang
Dr. Jun Li

Deadline for manuscript submissions

30 November 2026

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/268962

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 15 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).