Special Issue

High Power Fiber Laser and Amplifiers

Message from the Guest Editor

High-power fiber lasers and amplifiers are used in a wide range of applications due to their excellent beam quality, high efficiency, and flexible operation. At present, researchers also focus on the beam quality, output spectrum, temporal intensity, and the coherence of high-power fiber laser systems to improve their properties. Narrow-linewidth fiber lasers, polarization-maintaining fiber lasers, random fiber lasers, and other special fiber lasers have been demonstrated with high output power. However, the power limitation of the high-power fiber lasers and amplifiers still exists. Circumvention of the beam quality deterioration and spectral broadening at higher power level will always be a challenging issue. This Special Issue aims to present the state-of-the-art technologies in high-power fiber lasers and amplifiers, including demonstration of novel high-power fiber laser systems with extraordinary properties, special fiber components in the high-power fiber laser systems, and the study of phenomena which limit the properties of fiber laser systems. We look forward to receiving your contributions.

Guest Editor

Dr. Qirong Xiao

Department of Precision Instrument, Tsinghua University, Beijing 100084, China

Deadline for manuscript submissions

closed (10 December 2023)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/139163

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).