

Special Issue

Recent Progress in Optical Fiber Lasers

Message from the Guest Editors

Optical fiber lasers represent a pivotal advancement in modern photonics, serving as a cornerstone for applications ranging from telecommunications to precision manufacturing and biomedical engineering. These lasers usually utilize doped optical fibers as the gain medium, where rare-earth elements such as erbium, ytterbium, or thulium are embedded within the fiber core. Characterized by their compact design, thermal stability, and flexibility in wavelength tuning, optical fiber lasers have revolutionized industries by enabling ultrafast material processing, high-resolution medical imaging, and ultra-sensitive environmental sensing. This multidisciplinary field integrates principles from materials science, optical engineering, and quantum mechanics to optimize laser performance, enhance power scalability, and adapt to diverse operational environments. This Special Issue on optical fiber lasers will welcome basic, methodological, and applied cutting-edge research contributions, such as regular and review papers, dealing with the following topics:

- **Ultrafast fiber lasers;**
- **New-type pulse lasers;**
- **Mode locked;**
- **Ultrafast laser applications;**

Guest Editors

Dr. Zhipeng Dong

Prof. Dr. Hongyi Lin

Dr. Dong Sun

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

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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.

Editor-in-Chief

Prof. Dr. Nelson Tansu

School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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