Special Issue

Research and Applications of Optical Fiber Lasers

Message from the Guest Editors

Fiber lasers, a remarkable innovation in laser technology, have gained significant attention due to their unique advantages and vast potential. These lasers utilize optical fibers, enabling them to achieve ultra-short pulses and high power densities and efficiencies while maintaining excellent beam quality. In research, fiber lasers are an ideal platform on which to investigate the interaction between ultra-short pulses. The applications of fiber lasers are equally impressive, as they are used in a wide range of industries, including telecommunications, material processing, medical imaging, and sensing. They are also finding new applications in emerging fields, such as quantum computing and LiDAR systems. This Special Issue aims to publish selected contributions on advances in fiber laser technology and their applications.

- Ultra-short and ultra-fast fiber lasers;
- Solitons in fibers lasers;
- Complex optical pulses in fiber lasers;
- Supercontinuum generation in fiber lasers;
- New type mode locker or Q-switcher in the fiber lasers;
- High-power fiber laser technology;
- New locking technology in fiber lasers;
- Mid-IR photonics;
- Fiber lasers for LiDAR.

Guest Editors

Dr. Yichang Meng

College of Science, Hebei University of Science and Technology, Shijiazhuang 050018, China

Prof. Dr. François Sanchez

Laboratoire de Photonique d'Angers EA 4644, Université d'Angers, LPHIA, SFR MATRIX, F-49000 Angers, France

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

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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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