



Research and Applications of Optical Fiber Lasers

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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Message from the Guest Editors

Dear Colleagues,

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.

