



## Advancements in Fiber Lasers and Their Applications

Guest Editors:

**Prof. Dr. Tianshu Wang**

National and Local Joint  
Engineering Research Center of  
Space Optoelectronics  
Technology, Changchun  
University of Science and  
Technology, Changchun 130022,  
China

**Prof. Dr. Chunyu Guo**

College of Physics and  
Optoelectronic Engineering,  
Shenzhen University, Shenzhen  
518060, China

**Prof. Dr. Xiaohui Li**

School of Physics and  
Information Technology, Shaanxi  
Normal University, Xi'an, China

Deadline for manuscript  
submissions:

**31 October 2024**

### Message from the Guest Editors

Dear Colleagues,

Fiber lasers, as third-generation lasers, are widely used in material processing, optical communication, fiber sensing, and other fields in recent years because of their excellent beam quality and high optical conversion efficiency. In the last decade, numerous theoretical and experimental results have been reported on the generation of mode-locked lasers, continuous high-power tunable fiber lasers, and ultrafast fiber laser communications. However, the practical application of fiber laser technology still faces many challenges, such as pulse compression and amplification technology, frequency stabilization, and noise suppression of mode-locked pulses. This Special Issue, “Advancements in Fiber Lasers and Their Applications”, welcomes fundamental methodological and applied cutting-edge research contributions. Topics include, but are not limited to, the following:

- High-power fiber lasers;
- Ultrafast fiber lasers;
- Tunable fiber lasers;
- Narrow-linewidth fiber lasers;
- Mid-infrared fiber lasers;
- Frequency combs;
- Fiber laser applications.

