



## Single Frequency Fiber Lasers and Their Applications

Guest Editors:

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### Message from the Guest Editors

The purpose of this Special Issue is to attract the latest theoretical and experimental results about single-frequency fiber lasers and recent developments in their applications.

Topics to be covered include, but are not limited to, the following:

- Fiber lasers operating in traditional and new spectral ranges from NIR to MIR regions;
- New gain optical fibers and gain mechanisms (SBS-based and SRS-based);
- Novel single-longitudinal-mode or single-frequency selection mechanisms;
- Novel optical filters (fiber-based and waveguide-based);
- Laser frequency stabilization, noise suppression and linewidth compression methods;
- Single-frequency laser amplifying and high-power fiber lasers;
- Multi-wavelength lasing, and wavelength-switchable and tunable operations;
- Single-frequency Q-switched lasing operation;
- theoretical modeling of single-frequency fiber lasers; new materials used as saturable absorbers in fiber lasers;
- Practical applications such as LIDAR, optical communication, fiber sensor, spectroscopy, laser manufacturing, microwave photonics, and all other related areas.

Deadline for manuscript  
submissions:

**20 September 2024**

