



Ultrafast Fiber Lasers and Applications

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Deadline for manuscript
submissions:

closed (15 October 2023)

Message from the Guest Editors

We are pleased to invite you to submit your manuscript to our Special Issue titled “Ultrafast Fiber Lasers and Their Applications”. Ultrafast fiber lasers with rare-earth-doped fibers as gain media have the advantages of miniaturization, high efficiency, and low cost. They show great potential in practical applications, such as precision microfabrication, aerospace, consumer electronics, automotive manufacturing, photovoltaic energy, and other industrial fields. In recent years, the emergence of new types of fibers such as infrared fibers, semiconductor fibers, and photonic crystal fibers has provided a broader stage for ultrafast fiber lasers. As the core component of many ultrafast laser application systems, the performance of ultrafast fiber lasers is the primary limiting factor for the whole system. However, there are still many aspects that need to be improved and enhanced in terms of performance.

Research areas may include (but are not limited to) the following: high-performance fiber lasers, ultrafast laser dynamics, and applications of fiber lasers.

