Special Issue

High-Power Solid-State Laser Technology and Its Applications

Message from the Guest Editors

High-power solid-state lasers are widely used in many research fields, such as fundamental research, industrial services, defense security, and advanced manufacturing. This topic aims to address the advanced developments of high-power laser technology and its application, such as solid-state lasers, optical fiber lasers, novel mediums for high-power lasers, laser detection, advanced manufacturing technology, and so on. This special issue invites manuscripts that introduce the recent advances in “High-Power Solid Lasers and Their Applications”. All theoretical, numerical, and experimental papers are accepted. Topics include, but are not limited to, the following:

- Ultra-short laser generation and amplification;
- Pulse Stretching, compression, and measurement;
- Ultra-high peak power solid laser;
- Laser Beam combination;
- Optical fiber lasers and application;
- Novel laser techniques, and media;
- Advanced laser processing;
- Nonlinear optics in high-power lasers;
- High-power laser weapons;
- High-power laser for communications, sensing, and detection.

Guest Editors

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Deadline for manuscript submissions

closed (20 January 2024)

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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

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