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High-Power Solid-State Laser Technology and Its Applications

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Deadline for manuscript submissions:
closed (20 January 2024)

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.

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Special Issue