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

Dr. Yudong Lian

Dr. Haisu Li

Dr. Yulai She

Dr. Zhaohong Liu

Deadline for manuscript submissions

closed (20 January 2024)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/165494

Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

mdpi.com/journal/photonics

MDPI

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/journal/photonics

MDPI

About the Journal

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

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Instrumentation)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).