# **Special Issue**

## High Power Lasers: Technology and Applications

### Message from the Guest Editor

This Special Issue seeks to uncover the underlying science and engineering in the fields of high-energy density physics, high-power lasers, and advanced laser technology, applications, and laser components. Specifically, papers dealing with laser-plasma interactions, ultra-intense pulse laser interactions with matter, attosecond physics, laser design, modeling, and optimization, laser amplifiers, nonlinear optics, laser engineering, optical materials, optical devices, fiber lasers, diode-pumped solid-state lasers and excimer lasers, etc., are solicited. Researchers are invited to submit their contributions to this Special Issue. Topics include, but are not limited to, the following:

- High-power laser systems.
- High-power radiation interactions with matter.
- Laser welding.
- Laser beam characterization and measurement of laser beam parameters.
- Materials for high-power lasers.
- Laser-material interactions.
- High-speed imaging.
- Thermal lensing and optic design approaches.

#### **Guest Editor**

Dr. Changqing Cao School of Physics and Optoelectronic Engineering, Xidian University, Xi'an 710071, China

### Deadline for manuscript submissions

closed (20 October 2024)



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# 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

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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).