Special Issue

High Power Laser: Theory and Applications

Message from the Guest Editor

High-power lasers play an important role in modern society. At present, researchers are committed to improving output power/energy, beam quality control capability and operating frequency by exploring new technologies and materials. These developments will in turn promote the development of relevant application technologies, such as inertial confinement fusion, astrophysics, ion acceleration, etc. Original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Laser design, modeling and optimization;
- High-power/high-energy laser, ultra-short ultra-strong laser; chemical laser, free-electron laser; solid-state laser, fiber laser, semiconductor laser, etc.;
- Interaction between laser and materials. Laser plasma physics. Intense laser-driven particle acceleration and new radiation sources;
- Laser beam control and transmission;
- Advanced optical functional materials and devices, films and applications;
- Laser manufacturing, laser detection and laser imaging, laser application technology;
- Other relevant frontier interdisciplinary sciences.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2023)

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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.

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