Special Issue

High-Power Lasers and Amplifiers

Message from the Guest Editors

High-power lasers and amplifiers continue to be at the forefront of many scientific breakthroughs and technological achievements. Progress in the performance of these systems in terms of spectral coverage and tunability, average and peak power, conversion efficiency, etc. continue to open doors in many new and exciting interdisciplinary fields. In recent years we have been witnessing tremendous progress with NIR/Mid-IR lasers and amplifiers including new laser materials and new laser architecture, such as waveguide laser amplifiers. In this Special Issue on "High-Power Lasers and Amplifiers", we aim to bring the most recent exciting developments in this field. Topics of interest include, but are not limited to, the following areas:

- Laser amplifiers—scientific foundations;
- Mid-IR light generation and amplification by laser;
- New NIR/Mid-IR laser materials;
- Short pulse (fs) laser amplifiers;
- New methods for high energy mode-lock lasers;
- High energy pulsed laser amplifiers—gas;
- High energy pulsed laser amplifiers—solid state;
- High-energy/high-power waveguide amplifiers;
- KW-class laser amplifiers.

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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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