# Special Issue

# Laser Amplifiers

### Message from the Guest Editors

In this Special Issue on Laser Amplifiers, we assemble contributions covering the most recent exciting developments in laser amplifiers. Diverse scientific fields and a broad spectrum of applications benefit greatly from novel and high-performance amplifiers in terms of their outstanding properties addressing wavelength ranges, spectral coverage and purity, average power, peak power, pulse energy, time duration, and many more. The assembled contributions are not exhaustive in the coverage of the field, but we consider them as important and noteworthy in taking the pulse of current developments and prospects for future work. Technical topics include but not limited to the following:

- Laser amplifiers – scientific foundations
- EUV-UV light generation and amplification using lasers
- Short pulse (fs) laser amplifiers
- High energy pulsed laser amplifiers – solid state
- High energy pulsed laser amplifiers – fiber
- High energy pulsed laser amplifiers – gas
- Single frequency highly coherent laser amplifiers
- Parametric fiber amplifiers
- KW-class laser amplifiers
- Mid-IR light generation and amplification by laser

### Guest Editors

Prof. Dr. Nasser Peyghambarian

Optical Sciences Center, University of Arizona, Tucson, AZ 85721-0094, USA

Prof. Dr. Arturo Chavez-Pirson

College of Optical Sciences, University of Arizona, Tucson, AZ 85721-0094, USA

### Deadline for manuscript submissions

closed (31 August 2021)

*hv*

# Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/51113

*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).