Special Issue

Novel Nonlinear Phenomena with Strong Laser Fields

Message from the Guest Editors

The nonlinear interaction of intense laser pulses with matter is remarkably rich in its behavior and gives rise to many fascinating phenomena, such that recent years have witnessed a continuing interest and considerable progress. This Special Issue on “Novel Nonlinear Phenomena with Strong Laser Fields” seeks to promote scientific and technological research in this field of nonlinear optics using intense, ultrashort lasers. This Special Issue will publish experimental and theoretical research papers on cutting-edge advances in novel nonlinear phenomena, including but not limited to laser filamentation, high-order harmonic generation, supercontinuum generation, ultrashort laser development, novel THz generation in bulk media, and in gas-filled hollow fibers. The journal will publish communications, articles, and reviews that are of high quality, impact, and novelty, interesting to broad audiences of scientific and technological communities.

Guest Editors

Dr. Bonggu Shim

Department of Physics, Applied Physics and Astronomy, Binghamton University, Binghamton, NY 13902, USA

Dr. Xiaohui Gao

Department of Physics, Shaoxing University, Shaoxing, Zhejiang 312000, China

Deadline for manuscript submissions

closed (15 July 2022)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/47990

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).