Special Issue

Optical Vortex Laser

Message from the Guest Editor

This Special Issue aims to present original state-of-the-art research articles dealing with vortex laser generated with active method, including off-axis pumping method, annular pumping method, intracavity spherical aberration method, etc. Specifically, papers are also solicited that deal with vortex lasers coupled to various kinds of nonlinear frequency conversion, such as second harmonic generation, sum-frequency generation, optical parametric oscillation, and Raman processes, and so on. Researchers are invited to submit their contributions to this Special Issue. Topics include, but are not limited to:

- Scalar vortex laser;
- Vector vortex laser;
- Vortex arrays laser;
- Vortex lattices laser;
- Raman vortex laser;
- Intra-cavity frequency-doubled/sum-frequency generation vortex laser;
- Intra-cavity optical parametric vortex laser;
- Cascaded-pumped vortex laser;
- Vortex random fiber laser;
- Kaleidoscope vortex laser.

Guest Editor

Dr. Peng Li

Research Center for Physics of 2D Opto-Electronic Materials and Devices, School of Physics and Electronics, Henan University, Kaifeng 475004, China

Deadline for manuscript submissions

closed (28 February 2025)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/186287

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).