Special Issue

Advances in Laser Spectroscopy: From Fundamentals to Applications

Message from the Guest Editors

Advances in laser spectroscopy have enabled many scientific breakthroughs and applications in physics, chemistry, biology, and scientific research. This Special Issue addresses the advancements in atomic and molecular spectroscopy, particularly in the application and development of laser spectroscopy technology. In the qualitative and quantitative analysis of sample detection, laser-induced fluorescence spectrum (LIS), laser Raman spectroscopy (LRS), and laser absorption spectroscopy (LAS) technologies have significant advantages in both detection accuracy and response speed. Papers in these research areas will be presented in the upcoming Special Issue. This Special Issue invites manuscripts that introduce the recent advances in laser spectroscopy. All theoretical, numerical, experimental, and application-oriented papers are accepted. Topics include, but are not limited to, the following:

- Novel laser spectroscopy techniques;
- Laser-spectroscopy-based fiber sensing techniques;
- Laser-spectroscopy-based remote sensing;
- Advances and applications of laser measurements;
- Infrared laser techniques;
- Recent advancements in tunable laser techniques.

Guest Editors

Dr. Jianing Wang

Dr. Guolin Li

Dr. Qixin He

Deadline for manuscript submissions

31 March 2026

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/227143

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).