

Special Issue

Laser Spectroscopy: Towards Higher Precision and Sensitivity

Message from the Guest Editors

Laser spectroscopy is a rapidly evolving field that plays a central role in modern photonics, enabling highly sensitive and precise measurements across a wide range of scientific and technological applications. From fundamental studies in atomic and molecular physics to practical implementations in environmental monitoring, industrial diagnostics, and biomedical sensing, laser-based spectroscopic techniques continue to push the limits of detection sensitivity and measurement accuracy.

This Special Issue aims to provide a platform for recent advances in laser spectroscopy, with emphasis on improving precision, sensitivity, and measurement reliability. Topics of interest include, but are not limited to:

- High-resolution and precision laser spectroscopy;
- Cavity-enhanced and absorption spectroscopy techniques;
- Optical frequency combs and advanced light sources;
- Trace gas detection and environmental sensing;
- Laser-based metrology and frequency stabilization;
- Nonlinear optics and ultrafast spectroscopy;
- Laser-matter interaction and plasma spectroscopy;
- Spectroscopic techniques for industrial and biomedical applications.

Original research articles and review papers are welcome.

Guest Editors

Dr. Muhammad Asad Khan

Department of Mathematics and Physics, University of Campania "Luigi Vanvitelli", 81100 Caserta, Italy

Dr. Naveed Ahmed Chishti

ISMO, University of Paris Saclay, Gif-sur-Yvette, France

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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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

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