# Special Issue

# Spectroscopy of Hot Atomic Vapor

### Message from the Guest Editors

Laser interaction with atomic samples represents a building block in our understanding of light–matter interaction as well as in investigations of quantum phenomena. Hot atomic vapor spectroscopy has garnered renewed interest in recent years, motivated by the experimental simplicity of using hot atoms and the variety of research topics that can be explored with such systems. For instance, hot atomic vapor has been used in applications such as sensitive measurement, the manipulation of atomic coherence, the emulation of non-atomic systems, and non-linear optics, among others. The purpose of this Special Issue is to provide an overview of current research topics concerning hot atomic vapor. Researchers are invited to submit their contributions on topics including, but not limited to, the following:

- Hot vapors as sensors;
- Lights scattering by hot vapors;
- Coherent effects;
- Non-linear optics;
- Quantum manipulations;
- Rydberg atoms.

### Guest Editors

Dr. Thierry Passerat De Silans
Dr. Jesús Pavón López
Dr. João Carlos de Aquino Carvalho

### Deadline for manuscript submissions

closed (20 May 2026)

*hv*

**Photonics**

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/248297

*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 15 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).