

## Special Issue

# Laser-Driven Ultrafast Dynamics and Imaging in Atoms and Molecules

### Message from the Guest Editors

Recent advances in diverse light sources spanning multiple wavelength regimes, combined with techniques such as electron rescattering, have enabled unprecedented investigations into the dynamics and imaging of atoms and molecules at femtosecond and attosecond resolutions. This Special Issue aims to present recent advancements in laser-driven ultrafast dynamics and imaging, with a particular emphasis on innovative approaches enabled by emerging light sources of interest to the ultrafast community. We welcome original research articles that explore new ideas, methodologies, and applications, as well as reviews, in this rapidly evolving field. Research areas may include, but are not limited to the following:

- Attosecond Pulse Generation and Applications
- Rescattering-Based Imaging Techniques
- Laser-induced Dynamics in Atoms and Molecules
- Emerging Light Sources for Ultrafast Science
- Quantum Control of Molecular Dynamics

We look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

15 October 2026



## Photonics

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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.

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### Editor-in-Chief

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