

Special Issue

Ultrafast Intense Laser Filamentation and Beyond

Message from the Guest Editors

This Special Issue will provide an overview of the present status of this field in order to bring together researchers' innovative findings and foster future developments. The issue is open to papers that address the following issues:

- Theoretical advances on filamentation;
- Self-focusing and collapse;
- Filamentation in various media;
- Supercontinuum generation and pulse compression;
- Filamentation control;
- Terahertz science with filaments;
- Strong field-matter interactions;
- Filament-based spectroscopy and lasing;
- Atmospheric applications and weather control;
- Laser machining and industrial applications with filaments;
- Ultrashort laser technologies and new high-intensity mid-IR sources, Mid-IR filamentation;
- Cross-disciplinary

Novel concepts related to these topics and beyond are particularly welcome.

Guest Editors

Prof. Dr. Stelios Tzortzakis

Prof. Dr. Olga Kosareva

Prof. Dr. Tie-Jun Wang

Deadline for manuscript submissions

closed (10 November 2023)



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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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