

# Special Issue

## Structured Light Beams: Science and Applications

### Message from the Guest Editors

This Special Issue is focused on the recent developments in various kinds of structured light beams and their potential impact on applications in the multidisciplinary sciences. As part of this Special Issue, we welcome high-quality research reviews, as well as theoretical, computational, and experimental original contributions on structured light field generation, characterization and their possible role in concrete applications. The topics of interest include (but are not limited to) the following:

- Structured light beam generation using diffractive optical elements;
- Direct generation of structured light beams from the laser cavity;
- Application of structured light beams in biological, chemical, and physical sciences;
- Structured light fields with unconventional propagation characteristics;
- Peculiarities in the generation of high-order harmonics with structured light beams;
- Dielectric metalenses for forming and controlling structured light;
- Non-diffracting light fields in optical communication;
- Ultrashort optical fields in manufacturing and material processing;
- Imaging with exotic light fields.

### Guest Editors

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### Deadline for manuscript submissions

closed (15 November 2024)



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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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