



Diffraction Optics for Generation and Transformation of Structured Light

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Message from the Guest Editor

Today, structured laser beams are widely used in optical and quantum communications, the laser processing of materials, optical microscopy, and biophotonics. The possibility of controlling not only the distribution of the generated laser beam intensity but also its phase distribution and polarization state is critically important and can be effectively performed using diffractive optical elements (DOEs).

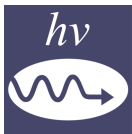
This Special Issue introduces new theoretical aspects of diffractive optics and practical applications of DOEs in the generation, transformation, and control of structured beams.

This Special Issue will focus on state-of-the-art research on diffractive optics and diffractive optics-based devices. In this Special Issue, original research articles, letters, and reviews are welcome.

Research areas may include (but are not limited to) the following :

- General aspects of diffractive optics;
- Optical elements;
- Diffractive optics-based devices;
- Design algorithms;
- Phase and amplitude encoding;
- Structured light beams;
- Polarization transformation;
- Superresolution;
- Optical processing;





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