

Special Issue

Light-Based 3D Printing for Optics

Message from the Guest Editor

The demanding geometrical and material properties of optics are achieved using a variety of light-based 3D printing techniques, including vat polymerization, stereolithography, multi-photon polymerization, etc. Examples of printed optics with these methods include diffractive optical elements, lenses, waveguides, metasurfaces/metamaterials, photonic crystals, etc. This Special Issue highlights a diverse range of topics related to the use of light-based additive advanced manufacturing processes to fabricate optical components and devices, aiming to capture the broad applications of 3D printing in this field. We welcome contributions in the form of experimental, theoretical, and numerical research articles, as well as comprehensive reviews and perspectives. Topics of interest include, but are not limited to, the following research areas:

- Multi-photon polymerization;
- Light-based additive manufacturing;
- High refractive index printing;
- Optical metamaterials/metasurfaces;
- Printed optical elements: lenses, diffractive optical elements, waveguides, photonic crystals;
- Printing inorganic materials: metals, semiconductors, quantum dots;
- Optical design;
- 3D optical coatings.

Guest Editor

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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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