

Direct Laser Writing for Photonic Applications

Guest Editors:

Dr. Heming Wei

Prof. Dr. Fufei Pang

**Prof. Dr. Sridhar
Krishnaswamy**

Deadline for manuscript
submissions:

closed (31 May 2023)

Message from the Guest Editors

As an additive manufacturing technique, direct laser writing has been demonstrated as a suitable option for truly arbitrary three-dimensional structures, especially for very complicated metastructures. Typically, direct laser writing can fabricate structures with a resolution limited by the voxel size, which can be much smaller than the diffraction-limited spot size. However, some of the optical and mechanical performance characteristics of the fabricated devices are still much lower than those obtained using traditional fabrication techniques. Therefore, it is necessary to explore direct laser writing with new mechanisms, new fabrication strategies, new materials as well as new functional devices for specified applications in optical waveguide communications, sensors, biomedical devices and metamaterials, etc.

This Special Issue will cover all contributions of original research and review articles related to the development and applications of direct laser writing, including but not limited to the following topics:

- Direct laser writing;
- Optical and photonic devices;
- Sensors and actuators;
- Microfluidics;
- Metamaterials;
- Functional materials.



mdpi.com/si/134449

Special Issue