

## Special Issue

# Two-Photon Polymerization Direct Laser Writing

### Message from the Guest Editors

This Special Issue aims to highlight the latest achievements in two-photon polymerization direct laser writing (TPP-DLW). Among the tools available for the fabrication of microstructures, TPP-DLW enjoys a series of characteristics that make it unique. As an additive manufacturing process, for example, TPP-DLW can achieve “true” three-dimensional writing for the realization of complex objects without the need for a layer-by-layer approach. Furthermore, it can print jobs with the highest precision, enabling feature sizes as small as 100 nm in a relatively straightforward manner. Thus, when compared with competitive technologies, TPP-DLW is highly attractive for the realization of three-dimensional microstructures because of the excellent reproduction fidelity. While micro-stereolithography, laser sintering, and inkjet printing allow layer-by-layer three-dimensional writing, they are not capable of depositing materials with dimensions smaller than few microns. Alternatively, lithographic processes with the highest writing resolution such as electron beam lithography are limited to the fabrication of essentially two-dimensional microstructures.

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