# **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 threedimensional 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.

#### **Guest Editors**

Dr. Tommaso Baldacchini

Department of Chemistry, University of California, Irvine, CA 92697, USA

Prof. Christopher N. LaFratta

Department of Chemistry and Biochemistry, Bard College, Annandale-on-Hudson, NY 12504, USA

#### Deadline for manuscript submissions

closed (4 December 2020)



## **Micromachines**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



mdpi.com/si/44764

Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

mdpi.com/journal/micromachines





an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



## **About the Journal**

## Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

#### Editor-in-Chief

Prof. Dr. Ai-Qun Liu

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

#### **Author Benefits**

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

## **Journal Rank:**

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

