Special Issue

Direct Ultrafast Laser Writing in Photonics and Optoelectronics

Message from the Guest Editors

In recent years, the exploration of applications of direct ultrafast laser writing technology has emerged as a research hotspot across diverse fields, including optical computing, optical storage, optical sensing, and photodetection. This Special Issue aims to provide a comprehensive overview of the current state-of-the-art in direct ultrafast laser writing technology, ranging from underlying mechanisms to applications. We welcome a wide range of topics, including fundamental research on the mechanisms of material modification induced by ultrafast lasers, the extreme control of material modification through laser temporal and spatial parameters, and applied research involving the fabrication of optical computing/optical quantum chips, optical storage devices, optical sensors, and photodetection devices. We hope to offer a forward-looking perspective on the fundamental challenges within the field of direct ultrafast laser writing in photonics and optoelectronics and identify key areas for future research. We look forward to receiving your contributions.

Guest Editors

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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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