Special Issue

Diffractive Optics – Current Trends and Future Advances

Message from the Guest Editors

Diffractive optics manipulates light using diffraction patterns, unlike traditional optical elements which use refractive surfaces. The use of diffractive optics enables high-precision control over the phase and amplitude of light, thereby allowing the creation of complex optical structures that can perform functions that cannot be achieved easily with traditional optics. Overall, diffractive optics offer a powerful tool for controlling the behavior of light and has enabled the development of a wide range of advanced optical systems and technologies. Its ability to provide more efficient, precise, and flexible optical components will definitely lead to a continued expansion of its applications in the future. The objective of this Special Issue of *Photonics* seeks contributions dealing with recent advances in the field of diffractive optics. Topics will include, but are not limited to, the key aspects of diffractive optics technology such as theory, design, fabrication, testing, and different applications in laser beam shaping, holography, imaging, sensing, optical communication, display, optical data storage, laser processing.

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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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