Special Issue

New Advances in Freeform Optics Design

Message from the Guest Editors

Freeform surfaces have no rotation symmetry or translation symmetry, a high degree of freedom in optical design, and a flexible spatial layout. In the last 10 vears, freeform optics have facilitated compact and high-performing optical systems, including space cameras, illumination optics, helmet displays, and other optical systems. Advancing the theory of optical design for freeform surfaces, improving the manufacturing precision and testing accuracy of freeform optical components, reducing the manufacturing costs, and expanding the application range of freeform optics are thus the goals of both the academic community and the related industry. This Special Issue invites manuscripts that introduce the recent advances in "Freeform Optics" Design". All theoretical, numerical, and experimental papers are accepted. Possible topics include, but are not limited to, the following:

- Freeform optics design theory;
- Freeform optics machining;
- Freeform optics inspection;
- Freeform optics installation;
- Optical freeform surface installation;
- Freeform surface type characterization;
- The applications of freeform optics.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2024)



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About the Journal

Message from the Editor-in-Chief

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 peerreviewed 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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