



Freeform Optics

Guest Editors:

Dr. Donglin Ma

School of Optical and Electronic Information, Huazhong University of Science and Technology, Wuhan 430074, China

Prof. Dr. Herbert Gross

Institute of Applied Physics, Friedrich-Schiller University Jena, 07745 Jena, Germany

Prof. Dr. Shanyong Chen

College of Intelligence Science and Technology, National University of Defense Technology, Changsha 410073, China

Deadline for manuscript submissions:

closed (20 October 2022)

Message from the Guest Editors

Dear Colleagues,

Freeform optics is an emerging technology that brings an evolutionary development for both imaging and non-imaging optics.

New fabrication techniques can fabricate optical surfaces with no axis of rotational symmetry, which open an expansive new space for optical systems. Particularly enabled systems include illumination systems, head-worn displays, mid- and long-wave pervasive surveillance systems, extreme ultraviolet lithography, solar concentrators, space optics, mobile displays, manufacturing, remote sensing, and medical and biosensing technologies.

However, the technology requires expertise in bringing together cross-disciplinary fields of design, simulation, fabrication, testing, and assembly into one process. Concurrent freeform optics technologies are still facing many issues.

This feature issue will highlight significant contributions in both academia and industry with regards to the evolution of freeform optical systems in design, fabrication, metrology, and novel applications, as well as artificial intelligence and machine learning techniques.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Nelson Tansu

School of Electrical and
Electronic Engineering (EEE), The
University of Adelaide, Adelaide,
SA 5005, Australia

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 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q2 (Instrumentation)

Contact Us

Photonics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/photonics
photonics@mdpi.com
X@Photonics_MDPI