

Special Issue

Emerging Topics in Freeform Optics

Message from the Guest Editors

Freeform optics is a rapidly evolving subfield of modern optics. It breaks the traditional limitations of spherical and aspherical surfaces, allowing for the creation of optical components with complex, non-rotationally symmetric shapes. This flexibility enables the development of optical systems with unprecedented performance, especially in terms of image quality, field of view, and aberration correction. The potential applications of freeform optics are vast and diverse. From consumer electronics such as smartphones and cameras, to scientific instruments like telescopes and microscopes, freeform optics is poised to transform the way we capture, process, and interpret optical information. In this Special Issue on “Emerging Topics in Freeform Optics”, we invite you to contribute your cutting-edge research in this exciting field. We are particularly interested in papers that address the following topics:

- Fundamental theories and principles of freeform optics.
- Advanced applications of freeform optics in various fields.
- Challenges and opportunities in the commercialization of freeform optics.

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Editor-in-Chief

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