Special Issue

Invisibility Cloaking: Methods, Principles, Materials, and Extended Applications

Message from the Guest Editors

With the advent of transformation-optics-based light-bypassing cloaking structures and scattering-cancellation-based cloaking structures, a range of cloaking mechanisms have been developed over the past decade. These mechanisms span multiple physical fields and operate across various wavelength ranges, achieving promising experimental demonstrations. We invite you to submit an article to this Special Issue, focusing on the latest advances in cloaking, including methods, structures, materials, and applications. We welcome submissions on novel cloaking techniques, traditional structures, metamaterials, multi-physics cloaking, and new applications like sensor cloaking and optical illusions.

- New methods for achieving cloaking.
- Metamaterials and other innovative materials with potential cloaking applications.
- Cloaking mechanisms across various physical fields.
- Cloaking solutions for sensors, antennas, and detectors.
- Transformation optics for cloaking and related optical illusions.
- New applications of cloaking devices.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

28 February 2026

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Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/221297

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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.

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