Special Issue

Optical Information Transmission in Turbidity and Complex Media: Challenges and Innovative Breakthroughs

Message from the Guest Editors

Our Special Issue is committed to building interdisciplinary platforms in the following areas: **Basic theories**: statistical modeling of light in scattering media, quantum transport, nonlinear optical effects. **Technical methods**: wavefront shaping, polarization modulation, spectral encoding, deep learning. **Applications**: biomedical imaging, underwater communication, industrial monitoring, extreme environment sensing. We invite researchers, scientists, and engineers to explore how to overcome transmission limits through material design (e.g., optical matching media), system optimization (e.g., multi-core fiber), and intelligent algorithms (e.g., adaptive modulation). How can laboratory results become practical technologies for marine exploration, medical diagnosis, and other scenarios? Submission scope: original research, reviews, briefs, and interdisciplinary work. This issue will prioritize achievements with breakthrough methods, strong application value, or engineering validation to accelerate the transition of optical transmission technology from lab to real world.

Guest Editors

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Deadline for manuscript submissions

30 March 2026

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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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