Special Issue

Coherence Properties of Light: From Theory to Applications

Message from the Guest Editors

The coherence properties of light are manifestations of correlations between random light fields at two or more different spatial or temporal points, which have played a significant role in understanding interference, propagation, light–matter interactions, and other fundamental aspects of classical and quantum wave fields. In this Special Issue, original research articles and reviews are welcome, not only exploring the physics of optical coherence, but also how these physical principles apply to practical applications. Research areas may include (but are not limited to) the following:

- Fundamental theory for optical coherence;
- Structured light sources with different coherence states;
- The measurement of coherence properties of light;
- The propagation of partially coherent beams with structured coherence properties;
- The scattering of partially coherent light on deterministic and random media;
- The effect of optical coherence on the interaction of light with different media;
- Applications for optical coherence theory.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (15 November 2024)

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mdpi.com/si/184721

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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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