Special Issue

Recent Advances and Future Perspectives in LED Technology

Message from the Guest Editor

This topical issue, entitled “Recent Advances and Future Perspectives in LED Technology”, will showcase papers pertaining to the entire realm of light-emitting diode (LED) technology. The coverage will extend from materials and material growth to device structures, integration with luminescent conversion materials (phosphors, quantum dots, organic luminophores), as well as the applications of LEDs in various fields. We are particularly keen to publish papers on the following topics:

- High-brightness LEDs;
- Perovskite LEDs;
- Phosphor-based infrared-emitting LEDs;
- Deep UV LEDs;
- LEDs based on emerging compound semiconductors: MgZnO, BN, etc.;
- Novel phosphors, quantum dots and organic luminescent materials for LEDs;
- Ongoing advances, such as solvatochromic LEDs, hyperspectral LEDs, etc.

Manuscripts related to these and other relevant topics will be given full consideration for publication in this Special Issue of *Photonics*. A limited number of review papers will also be included. While we expect most papers to be based on original experimental research, theoretical and modelling-based papers are also welcome.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2024)

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About the Journal

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.

Editor-in-Chief

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Author Benefits

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 13.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2026).