Special Issue

Breakthroughs in Organic Light-Emitting Diodes: Materials, Devices, and Applications

Message from the Guest Editors

Organic Light-Emitting Diodes (OLEDs) have emerged as a transformative technology in modern optoelectronics, offering advantages such as high efficiency, flexibility, low power consumption, and design versatility. We invite high-quality research and review articles covering a wide spectrum of topics, including but not limited to thermally activated delayed fluorescence (TADF), hyperfluorescent emitters, HLCT (hybridized local and charge-transfer) materials, novel host–guest systems, and charge-transport materials. Further emphasis will be placed on advancements in device engineering, solution-processing techniques, and methods for enhancing operational lifetime and environmental stability. Contributions that explore OLED integration in flexible and wearable electronics, bio-sensing platforms, and next-generation displays are especially encouraged. Through this initiative, we hope to accelerate the translation of laboratory-scale innovations into commercially viable OLED technologies for lighting, display, and beyond.

Guest Editors

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Deadline for manuscript submissions

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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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