

## Special Issue

# Research and Applications of Light-Emitting Diodes

### Message from the Guest Editors

We are pleased to announce a Special Issue on "Research and Applications of Light-Emitting Diodes" for the journal *Crystals*. Light-emitting diodes (LEDs) play a crucial role in both scientific research and industry. This Special Issue aims to present the latest research findings and technological advancements in the field of LEDs, encompassing a wide range of topics from fundamental materials science to innovative applications.

This Special Issue welcomes contributions that explore the synthesis and characterization of novel materials for LED devices, the structural optimization and performance improvement of devices and packages, and advancements in the fabrication of LEDs and their integration into various applications such as solid-state lighting, displays, and sensing.

We invite researchers to contribute to this Special Issue on wide-bandgap light-emitting materials and devices. This Special Issue will provide reviews while presenting new research updates on some key aspects of wide-bandgap material growth and device design.

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### Guest Editors

Dr. Weijie Guo

Prof. Dr. Beibei Xu

Dr. Zaifa Du

Dr. Aochen Du

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### Deadline for manuscript submissions

closed (20 May 2025)



## Crystals

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## About the Journal

### Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli  
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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