

Special Issue

III-Nitride-Based Light-Emitting Devices

Message from the Guest Editors

III-nitride semiconductors are wide bandgap materials, and their alloys can cover a wide spectral range, from ultraviolet to infrared. The invention and development of efficient InGaN-based blue light-emitting diodes (LEDs) represents a tremendously successful use of these semiconductors.

Advanced epitaxial growth and device processing technologies should be explored to develop novel light-emitting devices. These technologies can contribute to developing high-performance devices such as micro-LEDs, visible light-based communication, and UV-LEDs. Many emerging applications of light-emitting devices have been demonstrated; therefore, proper LED epitaxial growth and processing techniques must be developed.

We would like to invite researchers to contribute to this Special Issue. The potential topics include, but are not limited to:

- Long-wavelength emissions of InGaN-based LEDs;
- Micro-LEDs for displays and light communication;
- Visible/UV LEDs;
- UV LEDs;
- Low-dimensional structures/nanostructures;
- LED processing;
- Material growth on novel substrates;
- LED epitaxy and characterization.

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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.

Editor-in-Chief

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