

Special Issue

Research in GaN-based Materials and Devices

Message from the Guest Editors

The unique combination of extreme values of physical and chemical properties possessed by the III-nitrides has led to a range of potential applications spanning from optoelectronics to high-power and high-frequency electronic devices capable of operating under extreme conditions. In the last decade, improved control of the intrinsic and extrinsic material properties and the viability of high-quality native substrates have allowed the realization of high-performance devices. This Special Issue will focus on true GaN-based materials and devices utilizing bulk GaN substrates. This includes advances in bulk material technology and substrate development, fundamental materials understanding, epitaxial growth, “GaN-on-GaN” devices, and finally practical applications. We will present papers that address the current “state of the art”, presenting an overview of current technical progress, challenges, and predictions of future advances to occur in the GaN-based devices.

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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.

Editor-in-Chief

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