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Recent Advances in III-Nitride Semiconductors and Correlated Wide Bandgap Semiconductors, 2nd Edition

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Message from the Guest Editors

Dear Colleagues,

The interest in group-III nitrides lies in their irreplaceable and efficient blue-UV luminescence capability. Recently, more correlated wide-bandgap semiconductor materials, including Ga_2O_3, NiO, diamond, $LiNbO_3$, and AlScN , have been at the forefront of research. Nitrides, along with those wide bandgap materials, are promising candidates for next-generation power electronic applications because of their outstanding material properties, but their potential is far from being realized, and many material properties and device mechanisms still require investigation.

The topics include, but are not limited to, the following subjects:

- Growth of III-nitride semiconductors and correlated wide-bandgap semiconductor materials and micro/nanostructures;
- Characterization of these materials and the heterostructures;
- Novel devices, including emission, detection, and power devices;
- Application and integration of these materials and novel devices in novel electronics and photonics

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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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