



crystals



an Open Access Journal by MDPI

GaN-Based Materials and Devices

Guest Editors:

Dr. Matthew S. Wong

Materials Department, University
of California, Santa Barbara, CA
93106-5055, USA

Dr. Islam H. Sayed

Department of Electrical and
Computer Engineering, University
of California, Santa Barbara, CA
93106-5055, USA

Deadline for manuscript
submissions:

closed (10 July 2022)

Message from the Guest Editors

We would like to invite researchers to contribute to this Special Issue on GaN-based Materials and Devices. This Special Issue provides reviews while introducing new research updates on some key aspects of GaN-based material growth and device designs. The potential topics of this Special Issue include but are not limited to:

- High indium and/or aluminum composition growth
- Ga-polar or N-polar growth
- Novel nitride growth, such as boron nitride
- Light-emitting diodes (LEDs)
- Laser diodes (LDs)
- Vertical-cavity surface-emitting lasers (VCSELs)
- Microcavity or resonant cavity LEDs
- MicroLEDs
- UV LEDs
- Long-wavelength devices
- GaN based HEMTs or FETs
- Tunnel junctions
- III-nitride device physics
- III-nitride quantum dot growth
- III-nitride device processing



mdpi.com/si/92075

Special Issue



crystals



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, PI, Italy

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Crystals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/crystals
crystals@mdpi.com
[X@Crystals_MDPI](https://twitter.com/Crystals_MDPI)