Special Issue

Wide-Bandgap Semiconductors

Message from the Guest Editors

Wide-bandgap semiconductor materials have unique electrical, optical, and magnetic properties. Their devices have excellent performance and broad application prospects in many fields, which can improve the working temperature limit of power devices and make them work in worse environments; improve the power and efficiency of devices and, consequently, the performance of equipment; and broaden the luminous spectrum and realize full-color displays. We know that 3rd-generation semiconductor materials are mainly wide-bandgap semiconductors represented by GaN and SiC. Ultrawide-bandgap semiconductor materials include AlN, Ga2O3, diamond, BN, and so on. The introduction of these new materials represents a significant development and supplements semiconductor systems. At this stage, the growth, fabrication, and characterization of wide-bandgap semiconductor materials and devices need to be strengthened and improved. It is also necessary to systematically summarize recent works so that researchers in this field can learn from each other and jointly promote the development of wide-bandgap semiconductor materials and devices.

Guest Editors

Dr. Mingsheng Xu

Dr. Qiang Li

Dr. Giuseppe Greco

Dr. Vladimir M. Kaganer

Deadline for manuscript submissions

closed (31 May 2023)

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 4.2

mdpi.com/si/116078

Crystals
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

mdpi.com/journal/crystals

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 4.2

mdpi.com/journal/crystals

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

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

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)