



Low-Dimensional Materials for Electronic Device Applications

Guest Editors:

Prof. Dr. Wen Lei

Dr. Baolai Liang

Prof. Junqi Liu

Prof. Weiming Cheng

Deadline for manuscript
submissions:

closed (20 July 2021)

Message from the Guest Editors

Recently, low-dimensional (zero-, one and two-dimensional) materials have attracted considerable attention and become the focus of scientific research and engineering applications. Therefore, this is the perfect time to present a Special Issue on “Low-dimensional materials for electronic device applications” in Crystals.

The aim of this Special Issue is to introduce the recent advances in this specific field to the readers of Crystals. Prospective authors from both academia and industry are invited to submit original research and comprehensive review articles which are relevant but not limited to the following topics:

1. Growth and synthesis of low-dimensional materials, such as quantum wells/dots/wires, nanowires, nanotubes, superlattices, 2D materials, photonics crystals, etc.
2. Novel characterization and analysis techniques (structural, electrical, optical, etc).
3. Device processing and electronic device applications, such as transistors, lasers/LED, detectors/sensors, modulators, solar cells, etc.
4. Physics relevant to low-dimensional materials.
5. Modeling and simulation of material growth/synthesis and electronic device performance.





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)