

Special Issue

Semimetal, Semiconductor or Oxide based Electronics, Optoelectronics and Integrated Devices and Sensors

Message from the Guest Editors

The purpose of this Special Issue is to provide an update of the developments and trends towards the realisation of smaller, smarter, and less power hungry devices spanning from electronics and photonics to various sensing and data storage architectures. We seek research and review articles about different aspects of material science and device concepts, including atomic-scale simulation, TCAD modelling, design, growth, synthesis, functionalisation, nanofabrication, and material/device structural, electronic, optical, chemical, mechanical and magnetic characterization, as well as quantum effects, surface termination, impurities, defects and grain boundary studies. Papers on a wide range of material systems from semimetals and semiconductors to oxides, organic and inorganic materials and the devices made of such materials, and their diverse and emerging applications in any form of integrated circuits and systems will be considered. This could be expanded to topological insulators and spin-polarised materials and devices as well.

Guest Editors

Dr. Farzan Gity

Dr. Lida Ansari

Dr. Davoud Dastan

Deadline for manuscript submissions

closed (15 December 2020)



Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



mdpi.com/si/53311

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

[mdpi.com/journal/
crystals](https://mdpi.com/journal/crystals)





Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



[mdpi.com/journal/
crystals](https://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, Ei Compendex, CAPus / SciFinder, and other databases.

Journal Rank:

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