# **Special Issue**

# Growth and Characterization of Chalcogenide Semiconductors

### Message from the Guest Editor

Many of the chalcogenide compounds are very promising for applications in fields related to semiconductor electronics, optoelectronics, bioelectronics, energy and the environment, etc. In particular, most chalcogenides are usually crystallized in a layered hexagonal related structure, a so-called two-dimensional (2D) material. The 2D materials are specially used for large-area, ultra-thin, flexible and curved devices. The topic is currently undergoing enthusiastic study. Owing to the novelty and interesting properties of chalcogenides, we invite researchers to submit papers to this Special Issue entitled "Growth and Characterization of Chalcogenide Semiconductor" in the journal *Crystals*. Keywords

- Synthesis of chalcogenide compounds
- Crystal growth
- Structure study
- 2D chalcogenide studies
- Semiconductors
- Metallic/optical/thermoelectric/photocatalysis properties
- Electronics and optoelectronics devices
- Photoluminescence
- Spectroscopy
- Carrier transport
- Photodetector
- Defect studies
- Band and theoretical calculations
- Other characterization tools related to chalcogenides

### **Guest Editor**

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## **Deadline for manuscript submissions**

closed (15 October 2019)



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## **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
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