



Growth and Characterization of Chalcogenide Semiconductors

Guest Editor:

Prof. Dr. Ching-Hwa Ho

Graduate Institute of Applied
Science and Technology,
National Taiwan University of
Science and Technology, Taipei
106, Taiwan

Deadline for manuscript
submissions:

closed (15 October 2019)

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





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Editor-in-Chief

Prof. Dr. Alessandra Toncelli

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

Message from the Editor-in-Chief

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Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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