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Growth and Characterization of Chalcogenide Semiconductors

Guest Editor:

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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 and Characterization Chalcogenide of 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 of relation of the chalcogenide.



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Editor-in-Chief

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Message from the Editor-in-Chief

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